

State of Nebraska - INVITATION TO BID CONTRACT

Return to:
State Purchasing Bureau
1526 K Street, Suite 130
Lincoln, Nebraska 68508

Telephone: 402-471-6500
Fax: 402-471-2089

Date	5/20/20	Page	1 of 2
Solicitation Number	6307 OF		
Opening Date and Time	06/09/20	2:00 pm	
Buyer	CHRISTIE KELLY (AS)		

DESTINATION OF GOODS
DEPARTMENT OF TRANSPORTATION
5001 S 14TH ST
PO BOX 94759
LINCOLN NE 68509-4759

Per Nebraska's Transparency in Government Procurement Act, DAS is required to collect statistical information regarding the number of contracts awarded to Nebraska contractors. This information is for statistical purposes only and will not be considered for contract award purposes.

NEBRASKA CONTRACTOR AFFIDAVIT: Bidder hereby attests that bidder is a Nebraska Contractor. "Nebraska Contractor" shall mean any bidder who has maintained a bona fide place of business and at least one employee within this state for at least the six (6) months immediately preceding the posting date of this ITB.

_____ I hereby certify that I am a Resident disabled veteran or business located in a designated enterprise zone in accordance with Neb. Rev. Stat. §73-107 and wish to have preference, if applicable, considered in the award of this contract.

Contract to supply and deliver Truck Tractor Chassis with Tandem Rear Axle to the State of Nebraska as per the attached specifications for a two (2) year period from date of award. The contract may be renewed for two (2) additional two (2) year periods when mutually agreeable to the vendor and the State of Nebraska.

(05/18/20 ml)

INVITATION

Line	Description	Quantity	Unit of Measure	Unit Price	Extended Price
1	TRUCK TRACTOR CHASSIS WITH TANDEM REAR AXLE	2.0000	EA	\$93,999	\$187,998
2	FRONT TOW HOOKS	2.0000	EA	\$300	\$600
3	ENGINE BRAKE	2.0000	EA	Inc	Inc
4	PTO DRIVEN HYDRAULIC WET KIT W W/30 GALLON TANK ON PASSENGER	2.0000	EA	\$5,100	\$10,200
5	HALF FENDERS	2.0000	EA	\$2,200	\$4,400

BIDDER MUST COMPLETE THE FOLLOWING

DISCOUNT PAYMENT TERMS: 0 % 15 DAYS

By signing this Invitation to Bid form, the bidder guarantees compliance with the provisions stated in this Invitation to Bid, agrees to the terms and conditions unless otherwise agreed to (see Section III) and certifies that bidder maintains a drug free work place environment. Vendor will furnish the items requested within 12 days after receipt of order. Failure to enter Delivery Date may cause quotation to be REJECTED.

Sign B. T. Ashew
Here (Authorized Signature MANDATORY - MUST BE SIGNED IN INK)

Enter Contact Information Below

VENDOR# _____
VENDOR: Valvo Trucks of Omaha
Address: 11351 S. 153rd Street
Omaha, NE 68138

Contact Brian T. Ashew
Telephone 402-861-2583
Facsimile 402-856-0909
Email brian.ashew@usctire.com

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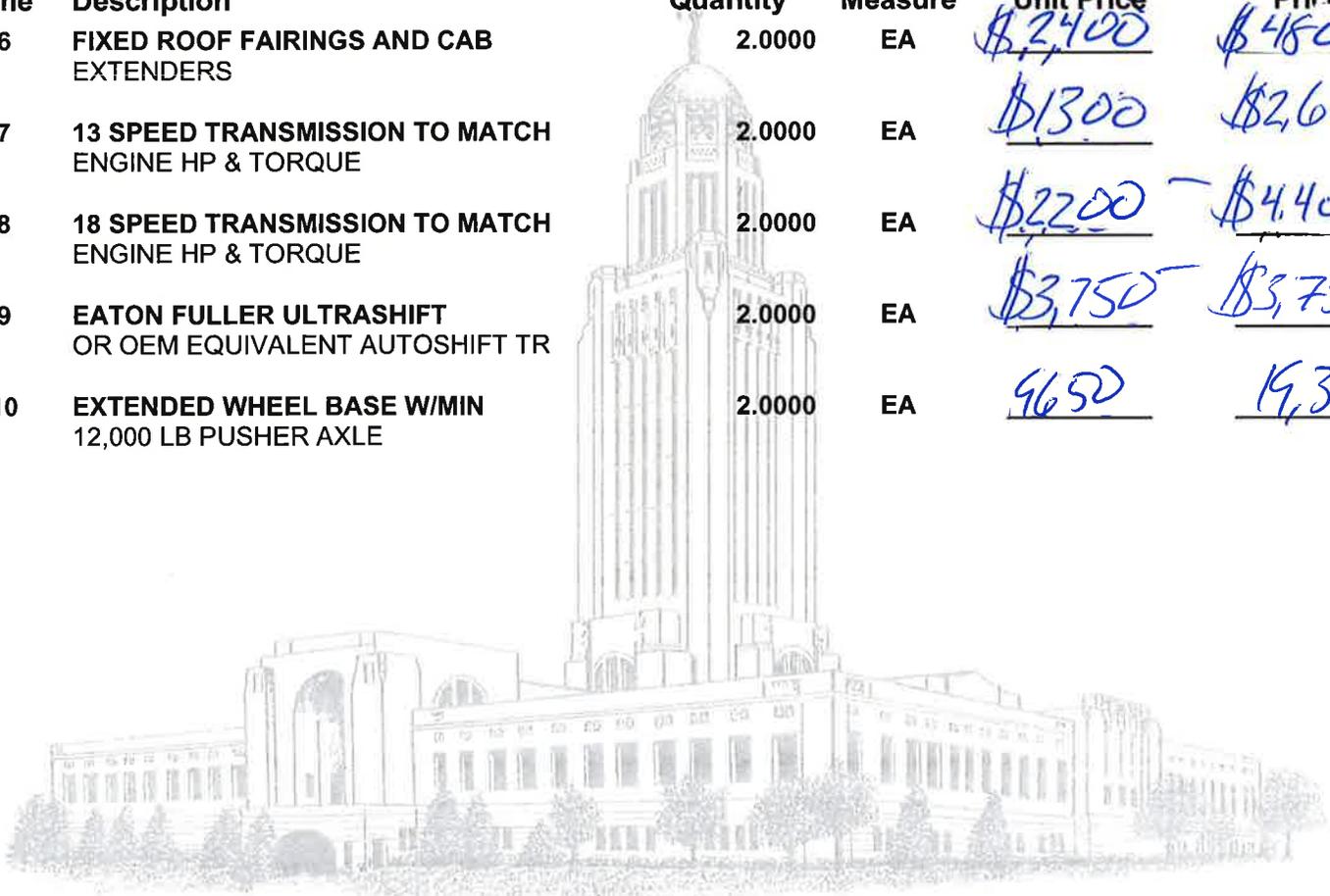
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Line	Description	Quantity	Unit of Measure	Unit Price	Extended Price
6	FIXED ROOF FAIRINGS AND CAB EXTENDERS	2.0000	EA	<u>\$2,400</u>	<u>\$4,800</u>
7	13 SPEED TRANSMISSION TO MATCH ENGINE HP & TORQUE	2.0000	EA	<u>\$1,300</u>	<u>\$2,600</u>
8	18 SPEED TRANSMISSION TO MATCH ENGINE HP & TORQUE	2.0000	EA	<u>\$2,200</u>	<u>\$4,400</u>
9	EATON FULLER ULTRASHIFT OR OEM EQUIVALENT AUTOSHIFT TR	2.0000	EA	<u>\$3,750</u>	<u>\$3,750</u>
10	EXTENDED WHEEL BASE W/MIN 12,000 LB PUSHER AXLE	2.0000	EA	<u>9650</u>	<u>19,300</u>



INVITATION TO BID

Number 6307 OF

The State of Nebraska (State), Department of Administrative Services (DAS), Materiel Division, State Purchasing Bureau (SPB), is issuing this solicitation for a Commodity contract, ITB Number 6307 OF for the purpose of selecting a qualified Contractor to provide **Truck Tractor Chassis with Tandem Rear Axle**. A more detailed description can be found in Sections II through VI. The resulting contract may not be an exclusive contract as the State reserves the right to contract for the same or similar goods from other sources now or in the future.

INFORMATION PERTINENT TO THIS SOLICITATION CAN BE FOUND ON THE INTERNET AT:

<http://das.nebraska.gov/materiel/purchasing.html>

IMPORTANT NOTICE: Pursuant to Neb. Rev. Stat. § 84-602.02, State contracts in effect as of January 1, 2014, and contracts entered into thereafter, must be posted to a public website. The resulting contract, the solicitation, and the successful Contractor's Bid or response will be posted to a public website managed by DAS, which can be found at:

<https://statecontracts.nebraska.gov>

In addition and in furtherance of the State's public records statute (Neb. Rev. Stat. § 84-712 et seq.) all Bids or responses received regarding this solicitation will be posted to the SPB website.

These postings will include the entire Bid or response. Contractor must request that proprietary information be excluded from the posting. The Contractor must identify the proprietary information, mark the proprietary information according to state law, and submit the proprietary information in a separate container or envelope marked conspicuously using an indelible method with the words "PROPRIETARY INFORMATION". The Contractor must submit a **detailed written document showing** that the release of the proprietary information would give a business advantage to named business competitor(s) and explain how the named business competitor(s) will gain an actual business advantage by disclosure of information. The mere assertion that information is proprietary or that a speculative business advantage might be gained is not sufficient. (See Attorney General Opinion No. 92068, April 27, 1992) **THE CONTRACTOR MAY NOT ASSERT THAT THE ENTIRE BID OR RESPONSE IS PROPRIETARY. COST WILL NOT BE CONSIDERED PROPRIETARY AND IS A PUBLIC RECORD IN THE STATE OF NEBRASKA.** The State will then determine, in its discretion, if the interests served by nondisclosure outweighs any public purpose served by disclosure. (See Neb. Rev. Stat. § 84-712.05(3)) The Contractor will be notified of the Agency's decision. Absent a State determination that information is proprietary, the State will consider all information a public record subject to release regardless of any assertion that the information is proprietary.

If the Agency determines it is required to release proprietary information, the Contractor will be informed. It will be the Contractor's responsibility to defend the Contractor's asserted interest in non-disclosure.

To facilitate such public postings, with the exception of proprietary information, the State of Nebraska reserves a royalty-free, nonexclusive, and irrevocable right to copy, reproduce, publish, post to a website, or otherwise use any contract, Bid, or response to this solicitation for any purpose, and to authorize others to use the documents. Any individual or entity awarded a contract, or who submits a Bid or response to this solicitation, specifically waives any copyright or other protection the contract, Bid, or response to the solicitation may have; and, acknowledges that they have the ability and authority to enter into such waiver. This reservation and waiver is a prerequisite for submitting a Bid or response to this solicitation, and award of a contract. Failure to agree to the reservation and waiver will result in the Bid or response to the solicitation being found non-responsive and rejected.

Any entity awarded a contract or submitting a Bid or response to the solicitation agrees not to sue, file a claim, or make a demand of any kind, and will indemnify and hold harmless the State and its employees, volunteers, agents, and its elected and appointed officials from and against any and all claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses, sustained or asserted against the State, arising out of, resulting from, or attributable to the posting of the contract or the Bids and responses to the solicitation, awards, and other documents.

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GLOSSARY OF TERMS

Acceptance Test Procedure: Benchmarks and other performance criteria, developed by the State or other sources of testing standards, for measuring the effectiveness of products or goods and the means used for testing such performance.

Addendum: Something to be added or deleted to an existing document; a supplement.

Agency: Using Agencies shall mean and include all officers of the state, departments, bureaus, boards, commissions, councils, and institutions receiving legislative appropriations.

Agent/Representative: A person authorized to act on behalf of another.

Amend: To alter or change by adding, subtracting, or substituting.

Amendment: A written correction or alteration to a document.

Appropriation: Legislative authorization to expend public funds for a specific purpose. Money set apart for a specific use.

Automated Clearing House: Electronic network for financial transactions in the United States.

Award: All purchases, leases, or contracts which are based on competitive Bids will be awarded according to the provisions in the solicitation.

Best and Final Offer: In a competitive Bid, the final offer submitted which contains Contractor's most favorable terms for price.

Bid: An offer, bid, or quote submitted by a Contractor/vendor in a response to a written solicitation.

Bidder: A Contractor who submits an offer Bid in response to a written solicitation.

Breach: Violation of a contractual obligation by failing to perform or repudiation of one's own promise.

Business: Any corporation, partnership, individual, sole proprietorship, joint-stock company, joint venture, or any other private legal entity.

Business Day: Any weekday, except State-recognized holidays.

Calendar Day: Every day shown on the calendar including Saturdays, Sundays, and State/Federal holidays.

Cancellation: To call off or revoke a Bid, purchase order or contract without expectation of conducting or performing at a later time.
Contractor

Collusion: An agreement or cooperation between two (2) or more persons or entities to accomplish a fraudulent, deceitful, or unlawful purpose.

Commodities: Any equipment, material, supply or goods; anything movable or tangible that is provided or sold.

Commodities Description: Detailed descriptions of the items to be purchased; may include information necessary to obtain the desired quality, type, color, size, shape, or special characteristics necessary to perform the work intended to produce the desired results.

Competition: The effort or action of two (2) or more commercial interests to obtain the same business from third parties.

Confidential Information: Unless otherwise defined below, "Confidential Information" shall also mean proprietary trade secrets, academic and scientific research work which is in progress and unpublished, and other information which if released would give advantage to business competitors and serve no public purpose (see Neb. Rev. Stat. § 84-712.05(3)). In accordance with Nebraska Attorney General Opinions 92068 and 97033, proof that information is proprietary requires identification of specific, named competitor(s) who would be advantaged by release of the information and the specific advantage the competitor(s) would receive.

Contract: An agreement between two (2) or more parties creating obligations that are enforceable or otherwise recognizable at law; the writing that sets forth such an agreement.

Contract Administration: The management of the contract which includes and is not limited to contract signing, contract amendments and any necessary legal actions.

Contract Management: The management of day to day activities at the Agency which includes and is not limited to ensuring deliverables are received, specifications are met, handling meetings and making payments to the Contractor.

Contract Period: The duration of the contract.

Contractor: An individual or entity lawfully conducting business in the State, who seeks or agrees to provide goods or services under the terms of a written contract.

Cooperative Purchasing: The combining of requirements of two or more political entities to obtain advantages of volume purchases, reduction in administrative expenses or other public benefits.

Copyright: A property right in an original work of authorship fixed in any tangible medium of expression, giving the holder the exclusive right to reproduce, adapt and distribute the work.

Critical Program Error: Any Program Error, whether or not known to the State, which prohibits or significantly impairs use of the Licensed Software as set forth in the documentation and intended in the contract.

Customer Service: The process of ensuring customer satisfaction by providing assistance and advice on those products or goods provided by a Contractor.

Default: The omission or failure to perform a contractual duty.

Deviation: Any proposed change(s) or alteration(s) to either the terms and conditions or deliverables within the scope of the written solicitation or contract.

Evaluation: The process of examining an offer after opening to determine the Contractor's responsibility, responsiveness to requirements, and to ascertain other characteristics of the offer that relate to determination of the successful award.

Evaluation Committee: Committee(s) appointed by the requesting Agency that advises and assists the procuring office in the evaluation of Bids (offers made in response to written solicitations).

Extension: Continuance of a contract for a specified duration upon the agreement of the parties beyond the original Contract Period. Not to be confused with "Renewal Period".

Free on Board Destination: The delivery charges are included in the quoted price and prepaid by the Contractor. Contractor is responsible for all claims associated with damages during delivery of product.

Free on Board Point of Origin: The delivery charges are not included in the quoted price and are the responsibility of the Agency. Agency is responsible for all claims associated with damages during delivery of product.

Foreign Corporation: A foreign corporation that was organized and chartered under the laws of another state, government, or country.

Installation Date: The date when the procedures described in "Installation by Contractor", and "Installation by State", as found in the solicitation, or contract are completed.

Interested Party: A person, acting in their personal capacity, or an entity entering into a contract or other agreement creating a legal interest therein.

Invalid Bid: A Bid that does not meet the requirements of the solicitation or cannot be evaluated against the other Bids.

Invitation to Bid: A written solicitation utilized for obtaining competitive offers for Services or Goods.

Late Bid: An offer received after the Opening Date and Time.

Licensed Software Documentation: The user manuals and any other materials in any form or medium customarily provided by the Contractor to the users of the Licensed Software which will provide the State with sufficient information to operate, diagnose, and maintain the Licensed Software properly, safely, and efficiently.

Mandatory: Required, compulsory, or obligatory.

May: Discretionary, permitted; used to express possibility.

Must: See "Mandatory".

National Institute for Governmental Purchasing (NIGP): Source used for assignment of universal commodity codes to goods and services.

Open Market Purchase: Authorization may be given to an Agency to purchase items above direct purchase authority due to the unique nature, price, quantity, location of the using Agency, or time limitations by the DAS Materiel Division, SPB.

Opening Date and Time: Specified date and time for the public opening of received, labeled, and sealed formal Bids.

Operating System: The control program in a computer that provides the interface to the computer hardware and peripheral devices, and the usage and allocation of memory resources, processor resources, input/output resources, and security resources.

Outsourcing: The contracting out of a business process which an organization may have previously performed internally or has a new need for, to an independent organization from which the process is purchased back.

Payroll & Financial Center: Electronic procurement system of record.

Performance Bond: An insurance agreement, accompanied by a monetary commitment, by which a third party (the surety) accepts liability and guarantees that the Contractor fulfills any and all obligations under the contract.

Platform: A specific hardware and Operating System combination that is different from other hardware and Operating System combinations to the extent that a different version of the Licensed Software product is required to execute properly in the environment established by such hardware and Operating System combination.

Point of Contact: The person designated to receive communications and to communicate.

Pre-Bid Conference: A meeting scheduled for the purpose of clarifying a written solicitation and related expectations.

Product: Something that is distributed commercially for use or consumption and that is usually (1) tangible personal property; (2) the result of fabrication or processing; and, (3) an item that has passed through a chain of commercial distribution before ultimate use or consumption.

Program Error: Code in Licensed Software which produces unintended results or actions, or which produces results or actions other than those described in the specifications. A program error includes, without limitation, any Critical Program Error.

Program Set: The group of programs and products, including the Licensed Software specified in the solicitation, plus any additional programs and products licensed by the State under the contract for use by the State.

Project: The total scheme, program, or method worked out for the accomplishment of an objective, including all documentation, commodities, and goods to be provided under the contract.

Bid: An offer, bid, or quote submitted by a Contractor/vendor in a response to a written solicitation

Proprietary Information: Proprietary information is defined as trade secrets, academic and scientific research work which is in progress and unpublished, and other information which if released would give advantage to business competitors and service no public purpose (see Neb. Rev. Stat. § 84-712.05(3)). In accordance with Attorney General Opinions 92068 and 97033, proof that information is proprietary requires identification of specific named competitor(s) advantaged by release of the information and the demonstrated advantage the named competitor(s) would gain by the release of information.

Protest/Grievance: A complaint about a governmental action or decision related to the solicitation or resultant contract, brought by a Contractor who has timely submitted a Bid response in connection with the award in question, to DAS Materiel Division or another designated Agency with the intention of achieving a remedial result.

Public Bid Opening: The process of opening correctly submitted offers at the time and place specified in the written solicitation and in the presence of anyone who wished to attend.

Quote: See "Bid".

Recommended Hardware Configuration: The data processing hardware (including all terminals, auxiliary storage, communication, and other peripheral devices) to the extent utilized by the State as recommended by the Contractor.

Release Date: The date of public release of the written solicitation to seek offers.

Renewal Period: Optional contract periods subsequent to the original Contract Period for a specified duration with previously agreed to terms and conditions. Not to be confused with "Extension".

Request for Information: A general invitation to Contractor is requesting information for a potential future solicitation. The Request For Information is typically used as a research and information gathering tool for preparation of a solicitation.

Responsible Contractor: A Contractor who has the capability in all respects to perform fully and lawfully all requirements with integrity and reliability to assure good faith performance.

Responsive Contractor: A Contractor who has submitted a Bid which conforms to all requirements of the solicitation document.

Shall: See "Mandatory".

Should: Expected; suggested, but not necessarily mandatory.

Software License: Legal instrument with or without printed material that governs the use or redistribution of licensed software.

Specifications: The detailed statement, especially of the measurements, quality, materials, and functional characteristics, or other items to be provided under a contract.

Statutory: These clauses are controlled by state law and are not subject to negotiation.

Subcontractor: Individual or entity with whom the Contractor enters a contract to perform a portion of the work awarded to the Contractor.

Termination: Occurs when the contract expires or either party, pursuant to a power created by agreement or law puts an end to the contract prior to the stated expiration date. All obligations which are still executory on both sides are discharged but any right based on prior breach or performance survives.

Third-Party: Any person or entity, including but not limited to fiduciaries, shareholders, owners, officers, managers, employees, legally disinterested persons, and subcontractors or agents, and their employees. It shall not include any entity or person who is an interested Party to the contract or agreement.

Trade Secret: Information, including, but not limited to, a drawing, formula, pattern, compilation, program, device, method, technique, code, or process that (a) derives independent economic value, actual or potential, from not being known to, and not being ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; and (b) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy (see Neb. Rev. Stat. § 87-502(4)).

Trademark: A word, phrase, logo, or other graphic symbol used by a manufacturer or Contractor to distinguish its product from those of others, registered with the U.S. Patent and Trademark Office.

Upgrade: Any change that improves or alters the basic function of a product of service.

Vendor Performance Report: A report completed by the using Agency and submitted to SPB documenting products or services delivered or performed which exceed or fail to meet the terms of the purchase order, contract, and/or solicitation specifications.

Vendor: Inclusive term for any Bidder or Contractor.

Will: See "Mandatory".

Work Day: See "Business Day".

ACRONYM LIST

ACH: Automated Clearing House

ARO: After Receipt of Order

ATA: American Trucking Association

BAFO: Best and Final Offer

BBC: Bumper to Back of Cab

CFM: Cubic Feet per Minute

CT: Cab Trunnion

DAS: Department of Administrative Services

DEF: Diesel Exhaust Fluid

FMCSA: Federal Motor Carrier Safety Administration

FOB: Free on Board

GL: Gallon

GVWR: Gross Vehicle Weight Rating

ITB: Invitation to Bid

LED: Light Emitting Diode

MPH: Miles Per Hour

NDOT: Nebraska Department of Transportation

NIGP: National Institute for Governmental Purchasing

OEM: Original Equipment Manufacturer

PFC: Payroll and Financial Center

POC: Point of Contact

PTO: Power Takeoff

RBM: Resistance Bending Moment

RFI: Request for Information

SPB: State Purchasing Bureau

BBC: Bumper to Back of Cab

RBM: Resistance Bending Moment

I. PROCUREMENT PROCEDURE

A. GENERAL INFORMATION

The solicitation is designed to solicit Bids from qualified Contractors who will be responsible for providing **Truck Tractor Chassis with Tandem Rear Axle** at a competitive and reasonable cost. Terms and Conditions, Contractor Duties, Scope of Work, Bidder instructions, and Technical Specifications may be found in Sections II through VI.

Bids shall conform to all instructions, conditions, and requirements included in the solicitation. Prospective Contractors are expected to carefully examine all documents, schedules, and requirements in this solicitation, and respond to each requirement in the format prescribed. Bids may be found non-responsive if they do not conform to the solicitation.

B. PROCURING OFFICE AND COMMUNICATION WITH STATE STAFF AND EVALUATORS

Procurement responsibilities related to this solicitation reside with SPB. The point of contact (POC) for the procurement is as follows:

Solicitation Number: 6307 OF
Name: Christie Kelly
Agency: State Purchasing Bureau
Address: 1526 K Street, Suite 130
Lincoln, NE 68508

Telephone: 402-471-6500

E-Mail: as.materielpurchasing@nebraska.gov

From the date the solicitation is issued until the Intent to Award is issued, communication from the Contractor is limited to the POC listed above. After the Intent to Award is issued, the Contractor may communicate with individuals the State has designated as responsible for negotiating the contract on behalf of the State. No member of the State Government, employee of the State, or member of the Evaluation Committee is empowered to make binding statements regarding this solicitation. The POC will issue any answers, clarifications or amendments regarding this solicitation in writing. Only the SPB or awarding Agency can award a contract. Contractors shall not have any communication with, or attempt to communicate or influence any evaluator involved in this solicitation.

The following exceptions to these restrictions are permitted:

1. Contact made pursuant to pre-existing contracts or obligations;
2. Contact required by the schedule of events or an event scheduled later by POC; and
3. Contact required for negotiation and execution of the final contract.

The State reserves the right to reject a Contractor's Bid, withdraw an Intent to Award, or terminate a contract if the State determines there has been a violation of these procurement procedures.

C. SCHEDULE OF EVENTS

The State expects to adhere to the procurement schedule shown below, but all dates are approximate and subject to change.

ACTIVITY		DATE/TIME
1.	Release solicitation	May 20, 2020
2.	Last day to submit written questions	May 27, 2020
3.	State responds to written questions through a solicitation "Addendum" and/or "Amendment" to be posted to the Internet at: http://das.nebraska.gov/materiel/purchasing.html	June 2, 2020
4.	Bid Opening Location: State Purchasing Bureau 1526 K Street, Suite 130 Lincoln, NE 68508	June 9, 2020 2:00 PM Central Time

D. WRITTEN QUESTIONS AND ANSWERS

Questions regarding the meaning or interpretation of any solicitation provision must be submitted in writing to SPB and clearly marked "ITB Number 6307 OF; Truck Tractor Chassis with Tandem Rear Axle Questions". POC is not obligated to respond to questions that are received late per the Schedule of Events.

Contractors should present, as questions, any assumptions upon which the Contractor's Bid is or might be developed. Bids will be evaluated without consideration of any known or unknown assumptions of a Contractor. The contract will not incorporate any known or unknown assumptions of a Contractor.

It is preferred that questions be sent via e-mail to as.materielpurchasing@nebraska.gov, but may be delivered by hand or by U.S. Mail. It is recommended that Contractors submit questions using the following format.

Solicitation Section Reference	Solicitation Page Number	Question

Written answers will be posted at <http://das.nebraska.gov/materiel/purchasing.html> per the Schedule of Events.

E. SECRETARY OF STATE/TAX COMMISSIONER REGISTRATION REQUIREMENTS (Statutory)

All Contractors must be authorized to transact business in the State and comply with all Nebraska Secretary of State Registration requirements. The Contractor who is the recipient of an Intent to Award will be required to certify that it has complied and produce a true and correct copy of its current (within 90 calendar days of the Intent to Award) Certificate or Letter of Good Standing, or in the case of a sole proprietorship, provide written documentation of sole proprietorship and the United States Citizenship Attestation Form, available on the DAS website at: <http://das.nebraska.gov/materiel/purchasing.html>. This must be accomplished prior to execution of the contract.

F. ETHICS IN PUBLIC CONTRACTING

The State reserves the right to reject Bids, withdraw an Intent to Award or Award, or terminate a contract if a Contractor commits or has committed ethical violations, which include, but are not limited to:

1. Offering or giving, directly or indirectly, a bribe, fee, commission, compensation, gift, gratuity, or anything of value to any person or entity in an attempt to influence the bidding process;
2. Utilize the services of lobbyists, attorneys, political activists, or consultants to influence or subvert the bidding process;
3. Being considered for, presently being, or becoming debarred, suspended, ineligible, or excluded from contracting with any state or federal entity;
4. Submitting a Bid on behalf of another party or entity;
5. Collude with any person or entity to influence the bidding process, submit sham Bids, preclude bidding, fix pricing or costs, create an unfair advantage, subvert the Bid, or prejudice the State.

The Contractor shall include this clause in any subcontract entered into for the exclusive purpose of performing this contract.

Contractor shall have an affirmative duty to report any violations of this clause by the Contractor throughout the bidding process, and throughout the term of this contract for the successful Contractor and their subcontractors.

G. DEVIATIONS FROM THE ITB

The requirements contained in the solicitation (Sections II through VI) become a part of the terms and conditions of the contract resulting from this solicitation. Any deviations from the solicitation in Sections II through VI must be clearly defined by the Contractor in its Bid and, if accepted by the State, will become part of the contract. Any specifically defined deviations must not be in conflict with the basic nature of the solicitation, solicitation requirements, or applicable State or Federal laws or statutes. "Deviation", for the purposes of this solicitation, means any proposed changes or alterations to either the contractual language or deliverables within the scope of this solicitation. The State discourages deviations and reserves the right to reject proposed deviations.

H. SUBMISSION OF BIDS

*****ALL BIDS MUST BE SUBMITTED IN A SEALED ENVELOPE OR CONTAINER!*****

Contractors should submit one (1) Bid marked on the first page: "ORIGINAL". If multiple Bids are submitted, the State will retain one (1) copy marked "ORIGINAL" and destroy the other copies. The Contractor is solely responsible for any variance between the copies submitted. The address label should be placed on the face of each container or Bid, must reference the ITB number and sent to the specified address in Section I B. If a recipient phone number is required for delivery purposes, 402-471-6500 should be used. The ITB number should be included in all

correspondence. The State will not furnish packaging and sealing materials. It is the Contractor's responsibility to ensure the ITB is received in a sealed envelope or container and received in the SPB by the Bid Opening date and time indicated in the Schedule of Events. No late Bids will be accepted.

The ITB document must be manually signed in an indelible manner (electronic signatures are acceptable) and returned by the Bid Opening date and time along with the Contractor's ITB along with any other requirements as stated in the ITB document in order for the Contractor's ITB to be evaluated.

It is the responsibility of the Contractor to check the website for all information relevant to this ITB to include addenda and/or amendments issued prior to the opening date. Website address is as follows:
<http://das.nebraska.gov/materiel/purchasing.html>

Emphasis should be concentrated on conformance to the ITB instructions, responsiveness to requirements, completeness, and clarity of content. If the Contractor's Bid is presented in such a fashion that makes evaluation difficult or overly time consuming the State reserves the right to reject the Bid as non-conforming.

By signing the ITB, the Contractor guarantees compliance with the provisions stated in this ITB.

The State shall not incur any liability for any costs incurred by Contractors in replying to this ITB, in the demonstrations and/or oral presentations, or in any other activity related to bidding on this ITB.

I. BID PREPARATION COSTS

The State shall not incur any liability for any costs incurred by Contractors in replying to this solicitation, including any activity related to bidding on this solicitation.

J. FAILURE TO COMPLY WITH ITB

Violation of the terms and conditions contained in this solicitation or any resultant contract, at any time before or after the award, shall be grounds for action by the State which may include, but is not limited to, the following:

1. Rejection of a Contractor's Bid;
2. Withdrawal of the Intent to Award;
3. Withdrawal of the Award;
4. Negative Vendor Performance Report(s)
5. Termination of the resulting contract;
6. Legal action; or,
7. Suspension of the Contractor from further bidding with the State for the period of time relative to the seriousness of the violation, such period to be within the sole discretion of the State.

K. BID CORRECTIONS

A Contractor may correct a mistake in a Bid prior to the time of opening by giving written notice to the State of intent to withdraw the Bid for modification or to withdraw the Bid completely. Changing a Bid after opening may be permitted if the change is made to correct a minor error that does not affect price, quantity, quality, delivery, or contractual conditions. In case of a mathematical error in extension of price, unit price shall govern.

L. LATE BIDS

Bids received after the time and date of the Bid opening will be considered late Bids. Late Bids will be returned unopened, if requested by the Contractor and at Contractor's expense. The State is not responsible for Bids that are late or lost regardless of cause or fault.

M. BID OPENING

Anyone may attend the opening. It is considered a public opening. The Buyer will read the names of the respondents. Depending upon the complexity of the Bid for goods, the buyer may read the Bids aloud or allow Bids be available for viewing by the public during the Bid opening. Once the Bid opening has concluded, the Bids will not be available for viewing until the Intent to Award has been posted. An initial Bid tabulation will be posted to the website as soon as feasible. Information identified as proprietary by the submitting Contractor, in accordance with the solicitation and state statute, will not be posted. If the state determines submitted information should not be withheld, in accordance with the [Public Records Act](#), or if ordered to release any withheld information, said information may then be released. The submitting Contractor will be notified of the release and it shall be the obligation of the submitting Contractor to take further action, if it believes the information should not be released.

N. ITB/BID REQUIREMENTS

The Bids will first be examined to determine if all requirements listed below have been addressed and whether further evaluation is warranted. Bids not meeting the requirements may be rejected as non-responsive. The requirements are:

1. Original Commodity ITB form signed using an indelible method (electronic signatures are acceptable);
2. Clarity and responsiveness of the Bid;
3. Completed Sections II through VI;
4. Completed ITB Form or State's Bid Sheet.

O. EVALUATION OF BIDS

All Bids that are responsive to the solicitation will be evaluated based on the following:

Neb. Rev. Stat. § 81-161 allows the quality of performance of previous contracts to be considered when evaluating responses to competitively bid solicitations in determining the lowest responsible bidder. Information obtained from any Contractor Performance Report (See Terms & Conditions, Section H) may be used in evaluating responses to solicitations for goods and services to determine the best value for the State.

Neb. Rev. Stat. § 73-107 allows for a preference for a resident disabled veteran or business located in a designated enterprise zone. When a state contract is to be awarded to the lowest responsible Contractor, a resident disabled veteran or a business located in a designated enterprise zone under the Enterprise Zone Act shall be allowed a preference over any other resident or nonresident Contractor, if all other factors are equal.

Resident disabled veterans means any person (a) who resides in the State of Nebraska, who served in the United States Armed Forces, including any reserve component or the National Guard, who was discharged or otherwise separated with a characterization of honorable or general (under honorable conditions), and who possesses a disability rating letter issued by the United States Department of Veterans Affairs establishing a service-connected disability or a disability determination from the United States Department of Defense and (b)(i) who owns and controls a business or, in the case of a publicly owned business, more than fifty percent of the stock is owned by one or more persons described in subdivision (a) of this subsection and (ii) the management and daily business operations of the business are controlled by one or more persons described in subdivision(a) of this subsection. Any contract entered into without compliance with this section shall be null and void.

Therefore, if a resident disabled veteran or business located in a designated enterprise zone submits a Bid in accordance with Neb. Rev. Stat. § 73-107 and has so indicated on the ITB cover page requesting priority/preference to be considered in the award of this contract, the following will need to be submitted by the Contractor within ten (10) business days of request:

1. Documentation from the United States Armed Forces confirming service;
2. Documentation of discharge or otherwise separated characterization of honorable or general (under honorable conditions);
3. Disability rating letter issued by the United States Department of Veterans Affairs establishing a service-connected disability or a disability determination from the United States Department of Defense; and
4. Documentation which shows ownership and control of a business or, in the case of a publicly owned business, more than fifty percent of the stock is owned by one or more persons described in subdivision (a) of this subsection; and the management and daily business operations of the business are controlled by one or more persons described in subdivision (a) of this subsection.

Failure to submit the requested documentation within ten (10) business days of notice will disqualify the Contractor from consideration of the preference.

P. BEST AND FINAL OFFER

If BAFO's are requested by the State and submitted by the Contractor, they will be evaluated (using the stated BAFO criteria) and ranked by the Evaluation Committee. The State reserves the right to conduct more than one BAFO. The award will then be granted to the lowest responsible Contractor. However, a Contractor should provide its best offer in its original Bid. Contractors should not expect that the State will request a BAFO.

Q. REFERENCE AND CREDIT CHECKS

The State reserves the right to conduct and consider reference and credit checks. The State reserves the right to use third parties to conduct reference and credit checks. By submitting a Bid in response to this solicitation, the Contractor grants to the State the right to contact or arrange a visit in person with any or all of the Contractor's clients. Reference and credit checks may be grounds to reject a Bid, withdraw an Intent to Award, or rescind the award of a contract.

R. AWARD

The State reserves the right to evaluate Bids and award contracts in a manner utilizing criteria selected at the State's discretion and in the State's best interest. After evaluation of the Bids, or at any point in the solicitation process, the State may take one or more of the following actions:

1. Amend the solicitation;
2. Extend the time of or establish a new Bid Opening time;
3. Waive deviations or errors in the State's solicitation process and in Contractor Bids that are not material, do not compromise the solicitation process or a Contractor's Bid, and do not improve a Contractor's competitive position;
4. Accept or reject a portion of or all of a Bid;
5. Accept or reject all Bids;
6. Withdraw the solicitation;
7. Elect to rebid the solicitation;
8. Award single lines or multiple lines to one or more Contractors; or,
9. Award one (1) or more all-inclusive contracts.

The State may consider, but is not limited to considering, one or more of the following award criteria:

1. Price;
2. Location;
3. Quality;
4. Delivery time;
5. Contractor qualifications and capabilities; and,
6. State contract management requirements and/or costs.

The solicitation does not commit the State to award a contract. Once an Intent to Award decision has been determined, it will be posted to the Internet at:

<http://das.nebraska.gov/materiel/purchasing.html>

Any protests must be filed by a Contractor within ten (10) business days after the Intent to Award decision is posted to the Internet. Grievance and protest procedure is available on the Internet at:

<http://das.nebraska.gov/materiel/purchasing.html>

S. SPECIFICATIONS

Any manufacturer's names, trade names, brand names, information and/or catalog numbers listed in a specification are for reference and not intended to limit competition, but will be used as the standard by which equivalent material offered will be judged. The Materiel Administrator or designee will be the sole judge of equivalency. The Contractor may offer any brands which meets or exceeds the specification. When a specific product is required, the solicitation will so state. Any item Bid is to be the latest current model under standard production at the time of order. No used or refurbished equipment will be accepted, unless otherwise stated.

T. ALTERNATE/EQUIVALENT BIDS

Contractor may offer Bids which are at variance from the express specifications of the solicitation. The State reserves the right to consider and accept such Bids if, in the judgment of the Materiel Administrator, the Bid will result in goods and/or services equivalent to or better than those which would be supplied in the original Bid specifications. Contractor must indicate on the solicitation the manufacturer's name, number and shall submit with their Bid, sketches, descriptive literature and/or complete specifications. Reference to literature submitted with a previous Bid will not satisfy this provision. Bids which do not comply with these requirements are subject to rejection. In the absence of any stated deviation or exception, the Bid will be accepted as in strict compliance with all terms, conditions and specification, and the Contractor shall be held liable therefore.

U. LUMP SUM OR "ALL OR NONE" BIDS

The State reserves the right to purchase item-by-item, by groups or as a total when the State may benefit by so doing. Contractors may submit a Bid on an "all or none" or "lump sum" basis, but should also submit a Bid on an item-by-item basis. The term "all or none" means a conditional Bid which requires the purchase of all items on which Bids are offered and Contractor declines to accept award on individual items; a "lump sum" Bid is one in which the Contractor offers a lower price than the sum of the individual Bids if all items are purchased, but agrees to deliver individual items at the prices quoted.

V. EMAIL SUBMISSIONS

SPB will not accept Bids by email, electronic, voice, or telephone Bids **except** for One-Time Purchases under \$50,000.00.

W. BID TABULATIONS

Bid tabulations are available on the website at: <http://www.das.state.ne.us/materiel/purchasing/bidtabs.htm>.

X. REJECTION OF BIDS

The State reserves the right to reject any or all Bids, wholly or in part, in the best interest of the State.

Y. RESIDENT BIDDER

Pursuant to Neb. Rev. Stat. §§ 73-101.01 through 73-101.02, a Resident Bidder shall be allowed a preference against a Non-resident Bidder from a state which gives or requires a preference to Bidders from that state. The preference shall be equal to the preference given or required by the state of the Nonresident Bidders. Where the lowest responsible bid from a resident Bidder is equal in all respects to one from a nonresident Bidder from a state which has no preference law, the resident Bidder shall be awarded the contract. The provision of this preference shall not apply to any contract for any project upon which federal funds would be withheld because of the provisions of this preference.

II. TERMS AND CONDITIONS

Contractors should complete Section II through VI as part of their Bid. Contractor is expected to read the Terms and Conditions and must initial either accept, reject, or reject and provide alternative language for each clause. The Contractor should also provide an explanation of why the Contractor rejected the clause or rejected the clause and provided alternate language using "Track Changes". Upon request an electronic copy of the Bid with "Track Changes" must be submitted in an editable Word format. By signing the solicitation, Contractor is agreeing to be legally bound by all the accepted terms and conditions, and any proposed alternative Terms and Conditions submitted with the Bid. The State reserves the right to negotiate rejected or proposed alternative language. If the State and Contractor fail to agree on the final Terms and Conditions, the State reserves the right to reject the Bid. The State is soliciting Bids in response to the solicitation. The State reserves the right to reject Bids that attempt to substitute the Contractor's commercial contracts and/or documents for this solicitation.

The Contractor should submit with their Bid any license, user agreement, service level agreement, or similar documents that the Contractor wants incorporated in the Contract. Upon notice of Intent to Award, the Contractor must submit a copy of these documents in an editable Word format. The State will not consider incorporation of any document not submitted with the Contractor's Bid. These documents shall be subject to negotiation and will be incorporated as addendums if agreed to by the Parties.

If a conflict or ambiguity arises after the addendums have been negotiated and agreed to, the addendums shall be interpreted as follows:

1. If only one (1) Party's document has a particular clause then that clause shall control;
2. If both Party's documents have a similar clause, but the clauses do not conflict, the clauses shall be read together;
3. If both Party's documents have a similar clause, but the clauses conflict, the State's clause shall control.

A. GENERAL

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The contract resulting from this solicitation shall incorporate the following documents:

1. ITB and Addenda;
2. Amendments to the solicitation;
3. Questions and Answers;
4. Contractor's Bid;
5. The executed Contract and any Addenda, if applicable, and properly submitted documents; and,
6. Amendments to the Contract

These documents constitute the entirety of the contract.

Unless otherwise specifically stated in a future contract amendment, in case of any conflict between the incorporated documents, the documents shall govern in the following order of preference with number one (1) receiving preference over all other documents and with each lower numbered document having preference over any higher numbered document: 1) Amendment to the executed Contract with the most recent dated amendment having the highest priority, 2) executed Contract and any attached Addenda, 3) Amendments to solicitation and any Questions and Answers, 4) the original solicitation document and any Addenda, and 5) the Contractor's submitted Bid. Any ambiguity or conflict in the contract discovered after its execution, not otherwise addressed herein, shall be resolved in accordance with the rules of contract interpretation as established in the State.

B. NOTIFICATION

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

Contractor and State shall identify the Contract Manager who shall serve as the Point of Contact for the executed contract. Communications regarding the executed contract shall be in writing and shall be deemed to have been given if delivered personally or mailed, by U.S. Mail, postage prepaid, return receipt requested, to the parties at their respective addresses set forth below, or at such other addresses as may be specified in writing by either of the parties. All notices, requests, or communications shall be deemed effective upon personal delivery or five (5) calendar days following deposit in the mail. Either party may change its address for notification purposes by giving notice of the change, and setting forth the new address and an effective date.

C. NOTICE (BUYER'S REPRESENTATIVE)

The State reserves the right to appoint a Buyer's Representative to manage [or assist the SPB Buyer in managing] the contract on behalf of the State. The Buyer's Representative will be appointed in writing, and the appointment document will specify the extent of the Buyer's Representative authority and responsibilities. If a Buyer's Representative is appointed, the Contractor will be provided a copy of the appointment document, and is expected to cooperate accordingly with the Buyer's Representative. The Buyer's Representative has no authority to bind the State to a contract, amendment, addendum, or other change or addition to the contract.

D. GOVERNING LAW (Statutory)

Notwithstanding any other provision of this contract, or any amendment or addendum(s) entered into contemporaneously or at a later time, the parties understand and agree that, (1) the State is a sovereign state and its authority to contract is therefore subject to limitation by the State's Constitution, statutes, common law, and regulation; (2) this contract will be interpreted and enforced under the laws of the State; (3) any action to enforce the provisions of this contract must be brought in the State per state law; (4) the person signing this contract on behalf of the State does not have the authority to waive the State's sovereign immunity, statutes, common law, or regulations; (5) the indemnity, limitation of liability, remedy, and other similar provisions of the final contract, if any, are entered into subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity; and, (6) all terms and conditions of the final contract, including but not limited to the clauses concerning third-party use, licenses, warranties, limitations of liability, governing law and venue, usage verification, indemnity, liability, remedy or other similar provisions of the final contract are entered into specifically subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity.

The Parties must comply with all applicable local, state and federal laws, ordinances, rules, orders, and regulations.

E. AMENDMENT

This Contract may be amended in writing, within scope, upon the agreement of both parties.

F. CHANGE ORDERS OR SUBSTITUTIONS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The State and the Contractor, upon the written agreement, may make changes to the contract within the general scope of the solicitation. Changes may involve specifications, the quantity of work, or such other items as the State may find necessary or desirable. Corrections of any deliverable, service, or work required pursuant to the contract shall not be deemed a change. The Contractor may not claim forfeiture of the contract by reasons of such changes.

The Contractor shall prepare a written description of the work required due to the change and an itemized cost sheet for the change. Changes in work and the amount of compensation to be paid to the Contractor shall be determined in accordance with applicable unit prices if any, a pro-rated value, or through negotiations. The State shall not incur a price increase for changes that should have been included in the Contractor's Bid, were foreseeable, or result from difficulties with or failure of the Contractor's Bid or performance.

No change shall be implemented by the Contractor until approved by the State, and the Contract is amended to reflect the change and associated costs, if any. If there is a dispute regarding the cost, but both parties agree that immediate implementation is necessary, the change may be implemented, and cost negotiations may continue with both Parties retaining all remedies under the contract and law. In the event any product is discontinued or replaced upon mutual consent during the contract period or prior to delivery, the State reserves the right to amend the contract or purchase order to include the alternate product at the same price.

*****Contractor will not substitute any item that has been awarded without prior written approval of SPB*****

G. VENDOR PERFORMANCE REPORT(S)

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The State may document any instance(s) of products or services delivered or performed which exceed or fail to meet the terms of the purchase order, contract, and/or solicitation specifications. The SPB may contact the Vendor regarding any such report. Vendor performance report(s) will become a part of the permanent record of the Vendor.

H. NOTICE OF POTENTIAL CONTRACTOR BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

If Contractor breaches the contract or anticipates breaching the contract, the Contractor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, a proposed cure, and may include a request for a waiver of the breach if so desired. The State may, in its discretion, temporarily or permanently waive the breach. By granting a waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.

I. BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

Either Party may terminate the contract, in whole or in part, if the other Party breaches its duty to perform its obligations under the contract in a timely and proper manner. Termination requires written notice of default and a 30 calendar day (or longer at the non-breaching Party's discretion considering the gravity and nature of the default) cure period. Said notice shall be delivered by Certified Mail, Return Receipt Requested, or in person with proof of delivery. Allowing time to cure a failure or breach of contract does not waive the right to immediately terminate the contract for the same or different contract breach which may occur at a different time.

In case of breach by the Contractor, the State may, without unreasonable delay, make a good faith effort to make a reasonable purchase or contract to purchased goods in substitution of those due from the Contractor. The State may recover from the Contractor as damages the difference between the costs of covering the breach. Notwithstanding any clause to the contrary, the State may also recover the contract price together with any incidental or consequential damages defined in UCC Section 2-715, but less expenses saved in consequence of Contractor's breach OR In case of default of the Contractor, the State may contract the service from other sources and hold the Contractor responsible for any excess cost occasioned thereby.

The State's failure to make payment shall not be a breach, and the Contractor shall retain all available statutory remedies.

J. NON-WAIVER OF BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The acceptance of late performance with or without objection or reservation by a Party shall not waive any rights of the Party nor constitute a waiver of the requirement of timely performance of any obligations remaining to be performed.

K. SEVERABILITY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

If any term or condition of the contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and conditions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the provision held to be invalid or illegal.

L. INDEMNIFICATION

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

1. GENERAL

The Contractor agrees to defend, indemnify, and hold harmless the State and its employees, volunteers, agents, and its elected and appointed officials ("the indemnified parties") from and against any and all claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses ("the claims"), sustained or asserted against the State for personal injury, death, or property loss or damage, arising out of, resulting from, or attributable to the willful misconduct, negligence, error, or omission of the Contractor, its employees, Subcontractors, consultants, representatives, and agents, resulting from this contract, except to the extent such Contractor liability is attenuated by any action of the State which directly and proximately contributed to the claims.

2. SELF-INSURANCE (Statutory)

The State is self-insured for any loss and purchases excess insurance coverage pursuant to Neb. Rev. Stat. § 81-8,239.01 (Reissue 2008). If there is a presumed loss under the provisions of this contract, Contractor may file a claim with the Office of Risk Management pursuant to Neb. Rev. Stat. §§ 81-8,829 through 81-8,306 for review by the State Claims Board. The State retains all rights and immunities under the State Miscellaneous (Section 81-8,294), Tort (Section 81-8,209), and Contract Claim Acts (Section 81-8,302), as outlined in Neb. Rev. Stat. § 81-8,209 et seq. and under any other provisions of law and accepts liability under this contract to the extent provided by law.

M. ATTORNEY'S FEES

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

In the event of any litigation, appeal, or other legal action to enforce any provision of the contract, the Parties agree to pay all expenses of such action, as permitted by law and if ordered by the court, including attorney's fees and costs, if the other party prevails.

N. ASSIGNMENT, SALE, OR MERGER

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

Either party may assign the contract upon mutual written agreement of the other party. Such agreement shall not be unreasonably withheld.

The Contractor retains the right to enter into a sale, merger, acquisition, internal reorganization, or similar transaction involving Contractor's business. Contractor agrees to cooperate with the State in executing amendments to the contract to allow for the transaction. If a third party or entity is involved in the transaction, the Contractor will remain responsible for performance of the contract until such time as the person or entity involved in the transaction agrees in writing to be contractually bound by this contract and perform all obligations of the contract.

O. CONTRACTING WITH OTHER POLITICAL SUB-DIVISIONS OF THE STATE OR ANOTHER STATE

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The Contractor may, but shall not be required to, allow Agencies, as defined in Neb. Rev. Stat. § 81-145, to use this contract. The Terms and Conditions, including price, of the contract may not be amended. The State shall not be contractually obligated or liable for any contract entered into pursuant to this clause.

The Contractor may, but shall not be required to, allow other states, Agencies or divisions of other states, or political subdivisions of other states to use this contract. The Terms and Conditions, including price, of this contract shall apply to any such contract, but may be amended upon mutual consent of the Parties. The State shall not be contractually or otherwise obligated or liable under any contract entered into pursuant to this clause. The State shall be notified if a contract is executed based upon this contract.

P. FORCE MAJEURE

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
SLG			

Neither party shall be liable for any costs or damages, or for default resulting from its inability to perform any of its obligations under the contract due to a natural or man-made event outside the control and not the fault of the affected party ("Force Majeure Event"). The Party so affected shall immediately make a written request for relief to the other party, and shall have the burden of proof to justify the request. The other Party may granted the relief requested; relief may not be unreasonably withheld. Labor disputes with the impacted party's own employees will not be considered a Force Majeure Event.

Q. CONFIDENTIALITY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
SLG			

All materials and information provided by the Parties or acquired by a Party on behalf of the other Party shall be regarded as confidential information. All materials and information provided or acquired shall be handled in accordance with federal and state law, and ethical standards. Should said confidentiality be breached by a Party, the Party shall notify the other Party immediately of said breach and take immediate corrective action.

It is incumbent upon the Parties to inform their officers and employees of the penalties for improper disclosure imposed by the Privacy Act of 1974, 5 U.S.C. 552a. Specifically, 5 U.S.C. 552a (i)(1), which is made applicable by 5 U.S.C. 552a (m)(1), provides that any officer or employee, who by virtue of his/her employment or official position has possession of or access to Agency records which contain individually identifiable information, the disclosure of which is prohibited by the Privacy Act or regulations established thereunder, and who knowing that disclosure of the specific material is prohibited, willfully discloses the material in any manner to any person or Agency not entitled to receive it, shall be guilty of a misdemeanor and fined not more than \$5,000.00.

R. EARLY TERMINATION

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
SLG			

The contract may be terminated as follows:

1. The State and the Contractor, by mutual written agreement, may terminate the contract at any time.
2. The State, at its sole discretion, may terminate the contract for any reason upon 30 calendar days' written notice to the Contractor. Such termination shall not relieve the Contractor of warranty or other service obligations incurred under the terms of the contract. In the event of termination the Contractor shall be entitled to payment, determined on a pro rata basis, for products or services satisfactorily performed or provided.
3. The State may terminate the contract immediately for the following reasons:
 - a. if directed to do so by statute;
 - b. Contractor has made an assignment for the benefit of creditors, has admitted in writing its inability to pay debts as they mature, or has ceased operating in the normal course of business;
 - c. a trustee or receiver of the Contractor or of any substantial part of the Contractor's assets has been appointed by a court;

- d. fraud, misappropriation, embezzlement, malfeasance, misfeasance, or illegal conduct pertaining to performance under the contract by its Contractor, its employees, officers, directors, or shareholders;
- e. an involuntary proceeding has been commenced by any party against the Contractor under any one of the chapters of Title 11 of the United States Code and (i) the proceeding has been pending for at least sixty (60) calendar days; or (ii) the Contractor has consented, either expressly or by operation of law, to the entry of an order for relief; or (iii) the Contractor has been decreed or adjudged a debtor;
- f. a voluntary petition has been filed by the Contractor under any of the chapters of Title 11 of the United States Code;
- g. Contractor intentionally discloses confidential information;
- h. Contractor has or announces it will discontinue support of the deliverable; and,
- i. In the event funding is no longer available.

S. CONTRACT CLOSEOUT

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

Upon termination of the contract for any reason the Contractor shall within 30 days, unless stated otherwise herein:

1. Transfer all completed or partially completed deliverables to the State;
2. Transfer ownership and title to all completed or partially completed deliverables to the State;
3. Return to the State all information and data, unless the Contractor is permitted to keep the information or data by contract or rule of law. Contractor may retain one copy of any information or data as required to comply with applicable work product documentation standards or as are automatically retained in the course of Contractor's routine back up procedures;
4. Cooperate with any successor Contractor, person or entity in the assumption of any or all of the obligations of this contract;
5. Cooperate with any successor Contractor, person or entity with the transfer of information or data related to this contract;
6. Return or vacate any state owned real or personal property; and,
7. Return all data in a mutually acceptable format and manner.

Nothing in this Section should be construed to require the Contractor to surrender intellectual property, real or person property, or information or data owned by the Contractor for which the State has no legal claim.

III. CONTRACTOR DUTIES

A. INDEPENDENT CONTRACTOR / OBLIGATIONS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

It is agreed that the Contractor is an independent Contractor and that nothing contained herein is intended or should be construed as creating or establishing a relationship of employment, Agency, or a partnership.

The Contractor is solely responsible for fulfilling the contract. The Contractor or the Contractor's representative shall be the sole point of contact regarding all contractual matters.

The Contractor shall secure, at its own expense, all personnel required to perform the services under the contract. The personnel the Contractor uses to fulfill the contract shall have no contractual or other legal relationship with the State; they shall not be considered employees of the State and shall not be entitled to any compensation, rights or benefits from the State, including but not limited to, tenure rights, medical and hospital care, sick and vacation leave, severance pay, or retirement benefits.

By-name personnel commitments made in the Contractor's Bid shall not be changed without the prior written approval of the State. Replacement of these personnel, if approved by the State, shall be with personnel of equal or greater ability and qualifications.

The Contractor warrants that all persons assigned to the project shall be employees of the Contractor or a Subcontractor, and shall be fully qualified to perform the work required herein. Personnel employed by the Contractor or a Subcontractor to fulfill the terms of the contract shall remain under the sole direction and control of the Contractor or the Subcontractor respectively.

With respect to its employees, the Contractor agrees to be solely responsible for the following:

1. Any and all pay, benefits, and employment taxes and/or other payroll withholding;
2. Any and all vehicles used by the Contractor's employees, including all insurance required by state law;
3. Damages incurred by Contractor's employees within the scope of their duties under the contract;
4. Maintaining Workers' Compensation and health insurance that complies with state and federal law and submitting any reports on such insurance to the extent required by governing law;
5. Determining the hours to be worked and the duties to be performed by the Contractor's employees; and,
6. All claims on behalf of any person arising out of employment or alleged employment (including without limit claims of discrimination alleged against the Contractor, its officers, agents, or Subcontractors or Subcontractor's employees).

If the Contractor intends to utilize any Subcontractor, the Subcontractor's level of effort, tasks, and time allocation must be clearly defined in the Contractor's Bid. The Contractor shall agree that it will not utilize any Subcontractors not specifically included in its Bid in the performance of the contract without the prior written authorization of the State.

The State reserves the right to require the Contractor to reassign or remove from the project any Contractor or Subcontractor employee.

Contractor shall insure that the terms and conditions contained in any contract with a Subcontractor does not conflict with the terms and conditions of this contract.

The Contractor shall include a similar provision, for the protection of the State, in the contract with any Subcontractor engaged to perform work on this contract.

B. EMPLOYEE WORK ELIGIBILITY STATUS

The Contractor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of employees physically performing work within the State. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent Federal program designated by the United States Department of Homeland Security or other Federal Agency authorized to verify the work eligibility status of an employee.

If the Contractor is an individual or sole proprietorship, the following applies:

1. The Contractor must complete the United States Citizenship Attestation Form, available on the DAS website at <http://das.nebraska.gov/materiel/purchasing.html>

The completed United States Attestation Form should be submitted with the solicitation response.

2. If the Contractor indicates on such attestation form that he or she is a qualified alien, the Contractor agrees to provide the U.S. Citizenship and Immigration Services documentation required to verify the Contractor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.
3. The Contractor understands and agrees that lawful presence in the United States is required and the Contractor may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. § 4-108.

C. COMPLIANCE WITH CIVIL RIGHTS LAWS AND EQUAL OPPORTUNITY EMPLOYMENT / NONDISCRIMINATION (Statutory)

The Contractor shall comply with all applicable local, state, and federal statutes and regulations regarding civil rights laws and equal opportunity employment. The Nebraska Fair Employment Practice Act prohibits Contractors of the State, and their Subcontractors, from discriminating against any employee or applicant for employment, with respect to hire, tenure, terms, conditions, compensation, or privileges of employment because of race, color, religion, sex, disability, marital status, or national origin (Neb. Rev. Stat. §§ 48-1101 through 48-1125). The Contractor guarantees compliance with the Nebraska Fair Employment Practice Act, and breach of this provision shall be regarded as a material breach of contract. The Contractor shall insert a similar provision in all Subcontracts for goods or services to be covered by any contract resulting from this solicitation.

D. COOPERATION WITH OTHER CONTRACTORS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BG			

Contractor may be required to work with or in close proximity to other Contractors or individuals that may be working on the same or different projects. The Contractor shall agree to cooperate with such other Contractors or individuals, and shall not commit or permit any act which may interfere with the performance of work by any other Contractor or individual. Contractor is not required to compromise Contractor's intellectual property or proprietary information unless expressly required to do so by this contract.

E. DISCOUNTS

Prices quoted shall be inclusive of ALL trade discounts. Cash discount terms of less than 30 days will not be considered as part of the Bid. Cash discount periods will be computed from the date of receipt of a properly executed claim voucher or the date of completion of delivery of all items in a satisfactory condition, whichever is later.

F. PRICES

Prices quoted shall be net, including transportation and delivery charges fully prepaid by the Contractor (FOB Destination is named in the solicitation). No additional charges will be allowed for packing, packages, or partial delivery costs.

When an arithmetic error has been made in the extended total, the unit price will govern.

All prices, costs, and Terms and Conditions submitted in the Bid, once accepted by the State, shall remain fixed and valid commencing on the opening date of the Bid, until an award is made through the first 180 days of the contract, or the solicitation is cancelled.

Any request for a price increase, after the initial term of 180 days, must be submitted in writing to SPB a minimum of 30 days. Documentation will be required by the State to support the price increase.

The State reserves the right to deny any requested price increase. No price increases are to be billed to any State Agencies prior to written amendment of the contract by the parties.

The State will be given full proportionate benefit of any decreases for the term of the contract.

G. COST CLARIFICATION

The State reserves the right to review all aspects of cost for reasonableness and to request clarification of any Bid where the cost component shows significant and unsupported deviation from industry standards or in areas where detailed pricing is required.

H. PERMITS, REGULATIONS, LAWS

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The contract price shall include the cost of all royalties, licenses, permits, and approvals, whether arising from patents, trademarks, copyrights or otherwise, that are in any way involved in the contract. The Contractor shall obtain and pay for all royalties, licenses, and permits, and approvals necessary for the performance of the contract. The Contractor must guarantee that it has the full legal right to the materials, supplies, equipment, software, and other items used to execute this contract.

I. NOTICE OF POTENTIAL CONTRACTOR BREACH

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

If Contractor breaches the contract or anticipates breaching the contract the Contractor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, and may include a request for a waiver of the breach if so desired. The State may, at its discretion, temporarily or permanently waive the breach. By granting a temporary waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.

J. ANTITRUST

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The Contractor hereby assigns to the State any and all claims for overcharges as to goods and/or services provided in connection with this contract resulting from antitrust violations which arise under antitrust laws of the United States and the antitrust laws of the State.

K. CONFLICT OF INTEREST

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

By submitting a Bid, bidder certifies that no relationship exists between the bidder and any person or entity which either is, or gives the appearance of, a conflict of interest related to this Request for Bid or project.

Bidder further certifies that bidder will not employ any individual known by bidder to have a conflict of interest nor shall bidder take any action or acquire any interest, either directly or indirectly, which will conflict in any manner or degree with the performance of its contractual obligations hereunder or which creates an actual or appearance of conflict of interest.

If there is an actual or perceived conflict of interest, bidder shall provide with its Bid a full disclosure of the facts describing such actual or perceived conflict of interest and a proposed mitigation plan for consideration. The State will then consider such disclosure and proposed mitigation plan and either approve or reject as part of the overall bid evaluation.

L. ADVERTISING

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The Contractor agrees not to refer to the contract award in advertising in such a manner as to state or imply that the company or its goods and services are endorsed or preferred by the State. Any publicity releases pertaining to the project shall not be issued without prior written approval from the State.

M. DISASTER RECOVERY/BACK UP PLAN

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The Contractor shall have a disaster recovery and back-up plan, of which a copy should be provided upon request to the State, which includes, but is not limited to equipment, personnel, facilities, and transportation, in order to continue delivery of goods and services as specified under the specifications in the contract in the event of a disaster.

N. DRUG POLICY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

The Contractor certifies it maintains a drug free work place environment to ensure worker safety and workplace integrity. Contractor agrees to provide a copy of its drug free workplace policy at any time upon request by the State.

O. WARRANTY

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTG			

Despite any clause to the contrary, the Contractor represents and warrants that its services hereunder shall be performed by competent personnel and shall be of professional quality consistent with generally accepted industry standards for the performance of such services and shall comply in all respects with the requirements of this Contract. For any breach of this warranty, the Contractor shall, for a period of ninety (90) days from performance of the service, perform the services again, at no cost to Customer, or if Contractor is unable to perform the services as warranted, Contractor shall reimburse Customer the fees paid to Contractor for the unsatisfactory services. The rights and remedies of the parties under this warranty are in addition to any other rights and remedies of the parties provided by law or equity, including, without limitation actual damages, and, as applicable and awarded under the law, to a prevailing party, reasonable attorneys' fees and costs.

IV. PAYMENT

A. PROHIBITION AGAINST ADVANCE PAYMENT (Statutory)

Neb. Rev. Stat. § 81-2403 states "[n]o goods or services shall be deemed to be received by an Agency until all such goods or services are completely delivered and finally accepted by the Agency" Standard term is to pay after deliverables and that any alteration of that standard term should be carefully considered and used only when absolutely necessary to accommodate certain critical exceptions, i.e. insurance premiums, etc. that must be paid in advance.)

Neb. Rev. Stat. § 81-2403 states, "[n]o goods or services shall be deemed to be received by an Agency until all such goods or services are completely delivered and finally accepted by the Agency."

B. TAXES (Statutory)

The State is not required to pay taxes and assumes no such liability as a result of this solicitation. The Contractor may request a copy of the Nebraska Department of Revenue, Nebraska Resale or Exempt Sale Certificate for Sales Tax Exemption, Form 13 for their records. Any property tax payable on the Contractor's equipment which may be installed in a state-owned facility is the responsibility of the Contractor.

C. INVOICES

Invoices for payments must be submitted by the Contractor to the Agency requesting the services with sufficient detail to support payment. The Terms and Conditions included in the Contractor's invoice shall be deemed to be solely for the convenience of the parties. No terms or conditions of any such invoice shall be binding upon the State, and no action by the State, including without limitation the payment of any such invoice in whole or in part, shall be construed as binding or estopping the State with respect to any such term or condition, unless the invoice term or condition has been previously agreed to by the State as an amendment to the contract.

D. INSPECTION AND APPROVAL

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
B/S			

Final inspection and approval of all work required under the contract shall be performed by the designated State officials.

The State and/or its authorized representatives shall have the right to enter any premises where the Contractor or Subcontractor duties under the contract are being performed, and to inspect, monitor or otherwise evaluate the work being performed. All inspections and evaluations shall be at reasonable times and in a manner that will not unreasonably delay work.

E. PAYMENT (Statutory)

Payment will be made by the responsible Agency in compliance with the State Prompt Payment Act (See Neb. Rev. Stat. § 81-2403). The State may require the Contractor to accept payment by electronic means such as ACH deposit. In no event shall the State be responsible or liable to pay for any goods and services provided by the Contractor prior to the Effective Date of the contract, and the Contractor hereby waives any claim or cause of action for any such services.

F. LATE PAYMENT (Statutory)

The Contractor may charge the responsible Agency interest for late payment in compliance with the State Prompt Payment Act (See Neb. Rev. Stat. §§ 81-2401 through 81-2408).

G. SUBJECT TO FUNDING / FUNDING OUT CLAUSE FOR LOSS OF APPROPRIATIONS (Statutory)

The State's obligation to pay amounts due on the Contract for a fiscal years following the current fiscal year is contingent upon legislative appropriation of funds. Should said funds not be appropriated, the State may terminate the contract with respect to those payments for the fiscal year(s) for which such funds are not appropriated. The State will give the Contractor written notice 30 calendar days prior to the effective date of termination. All obligations of the State to make payments after the termination date will cease. The Contractor shall be entitled to receive just and equitable compensation for any authorized work which has been satisfactorily completed as of the termination date. In no event shall the Contractor be paid for a loss of anticipated profit.

H. RIGHT TO AUDIT

The State shall have the right to audit the Contractor's performance of this contract upon a 30 day written notice. Contractor shall utilize generally accepted accounting principles, and shall maintain the accounting records, and other records and information relevant to the contract (Information) to enable the State to audit the contract. (Neb. Rev. Stat. § 84-304 et seq.). The State may audit and the Contractor shall maintain the information during the term of the contract and for a period of five (5) years after the completion of this contract or until all issues or litigation are resolved, whichever is later. The Contractor shall make the Information available to the State at Contractor's place of business or a location acceptable to both Parties during normal business hours. If this is not practical or the Contractor so elects, the Contractor may provide electronic or paper copies of the Information. The State reserves the right to examine, make copies of, and take notes on any Information relevant to this contract, regardless of the form or the Information, how it is stored, or who possesses the Information. In no circumstances will Contractor be required to create or maintain documents not kept in the ordinary course of Contractor's business operations, nor will Contractor be required to disclose any information, including but not limited to product cost data, which is confidential or proprietary to Contractor.

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BTS			

The Parties shall pay their own costs of the audit unless the audit finds a previously undisclosed overpayment by the State. If a previously undisclosed overpayment exceeds one-half of one percent (.5%) of the total contract billings, or if fraud, material misrepresentations, or non-performance is discovered on the part of the Contractor, the Contractor shall reimburse the State for the total costs of the audit. Overpayments and audit costs owed to the State shall be paid within 90 days of written notice of the claim. The Contractor agrees to correct any material weaknesses or condition found as a result of the audit.

V. SCOPE OF WORK

The Contractor must provide the following information in response to this solicitation.

A. SCOPE

It is the intent of this Bid invitation to establish a contract to supply **Truck Tractor Chassis with Tandem Rear Axle** per the attached specifications from date of award for a period of Two (2) years with the option to renew for an additional Two (2) Two (2) year periods when mutually agreeable to the Contractor and the State. The State reserves the right to extend the period of this contract beyond the end date when mutually agreeable to the Contractor and the State.

All items proposed shall be of the latest manufacture in production as of the date of the solicitation and be of proven performance and under standard design complete as regularly advertised and marketed. All necessary materials for satisfactory performance of the supplies shall be incorporated into the **Truck Tractor Chassis with Tandem Rear Axle** whether or not they may be specifically mentioned below.

Complete specifications, manufacturer's current descriptive literature and/or advertising data sheets with cuts or photographs must be included with the proposal for the IDENTICAL items proposed. Any information necessary to show compliance with these specifications not given on the manufacturer's descriptive literature and/or advertising data sheets must be supplied in writing on or attached to the proposal document. If manufacturer's information necessary to show compliance with these specifications is not attached to the proposal document, the Contractor may be required to submit requested information within three (3) business days of a written request. Failure to submit requested descriptive literature or advertising data sheets may be grounds to reject the proposal.

VI. TECHNICAL SPECIFICATIONS

A. BIDDER INSTRUCTIONS

The Bidder must respond to each of the following statements. Specifications listed are minimum conditions that must be met in order for a Bidder to qualify for the award.

“YES” response means the Bidder guarantees they can meet this condition.

“NO” response means the Bidder cannot meet this condition and will not be considered.

“NO & PROVIDE ALTERNATIVE” responses should be used only with a narrative response in the “NOTES/COMMENTS” section explaining in detail any deviation from the Bidder’s ability to meet the condition, and an explanation of how this would be determined to be an acceptable alternative to meeting the condition. Alternatives must be detailed in such a way that allows such deviations to be fully evaluated. The State shall determine at its sole discretion whether or not the Bidder’s alternative is an acceptable alternative.

B. NON-COMPLIANCE STATEMENT

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	/		1. Read these specifications carefully. Any and all exceptions to these specifications must be written on or attached to solicitation response. Any noncompliance may void your Bid. Non-compliance to any single specification can void your Bid.
✓	/		2. It is the responsibility of Contractors to obtain information and clarifications as provided below. The State is not responsible for any erroneous or incomplete understandings or wrongful interpretations of this solicitation by any Contractor.
✓	/		3. No interpretation related to the meaning of solicitation specifications or other pre-bid documents will be made orally to any Bidder by the State. Any solicitation interpretation must be put in writing by the Bidder and received at SPB by the last day to submit written questions per the Schedule of Events. (Inquiries received after the last day to submit written questions may not be addressed). E-mail questions to SPB at as.materielpurchasing@nebraska.gov
NOTES/COMMENTS:			

C. BASIC SPECIFICATIONS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	/		1. Tractor should be configured for regional service.
✓	/		a. The Tractor is to be used to pull a variety of vocational trailers owned by NDOT.
✓	/		b. The Tractor shall be no less than 54,000 Gross Vehicle Weight Rating (GVWR).
✓	/		2. Wheel Base: 200
✓	/		a. Shall be set back front axle design.

<input checked="" type="checkbox"/>			b. Minimum 180", maximum not to exceed 200".
<input checked="" type="checkbox"/>			c. Cab to Trunnion shall be appropriate for wheelbase and a minimum of 100".
<input checked="" type="checkbox"/>			3. BBC minimum of 112 inches.
<input checked="" type="checkbox"/>			4. RBM immediately behind cab shall at least 1,375,000 inch pounds.
<input checked="" type="checkbox"/>			5. Front bumper required.
<input checked="" type="checkbox"/>			6. Rear fenders to be quarter type with clearance for tire chains.
<input checked="" type="checkbox"/>			7. Hood and fenders shall be tilt-forward design
NOTES/COMMENTS:			

D. TRANSMISSION AND CLUTCH

YES	NO	NO & PROVIDE ALTERNATIVE	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1. Fuller 10 speed transmission or Equivalent with "C" rating or low end reduction, .
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		a. Six (6) bolt and Eight (8) bolt PTO openings.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		2. Synthetic lubricant in transmission.
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3. Clutch shall be minimum 15", double-plate ceramic type.
NOTES/COMMENTS:			

E. SHOCK ABSORBERS

YES	NO	NO & PROVIDE ALTERNATIVE	
<input checked="" type="checkbox"/>	<input type="checkbox"/>		1. Front shock absorbers required
NOTES/COMMENTS:			

14,600

F. AXLES AND SPRINGS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. Minimum 14,000 pound rated capacity in front axle with corresponding springs.
✓	✓		a. Oil Filled, Front Wheel Hubs with Window Required.
✓	✓		2. Rear assembly shall be single or dual reduction type-tandem with <u>Minimum 40,000</u> pound rated capacity.
✓	✓		3. Front and Rear Springs shall meet manufacturer's GVWR requirements.
✓	✓		a. Front Springs to be of taper leaf design.
✓	✓		4. Rear suspension shall be Hendricksen Primaxx Air Ride Suspension.
✓	✓		5. Adequate gear ratios in axles and transmission must be available to achieve cruising speed of approximately 75 MPH.
✓	✓		6. Axles to be driven by power divider with lockout. Switch to have indicator light.
✓	✓		7. All axles shall contain synthetic lubricants.
✓	✓		8. To Include a Suspension dump switch with indicator.
✓	✓		9. Inter-axle wheel lock. Switch to have indicator light.
NOTES/COMMENTS:			

G. STEERING

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. Manufacturer's recommended power steering.
NOTES/COMMENTS:			

H. BRAKES

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. Service brakes shall be six (6) wheel, full air, with automatic slack adjusters.
✓	✓		2. Two (2) shoes per wheel, double anchored when brakes are drum type.
✓	✓		3. Disc, drum or any combination of disc drum acceptable. Specify Type of Brakes Provided: <u>Drum front + Rear</u>
✓	✓		4. Dust shields required.
✓	✓		5. Anti-lock brake system four (4) channel required.
✓	✓		6. Parking Brakes:

✓			a. On both rear axles.
✓			b. A spring loaded parking brake system designed to automatically apply parking brakes when pressure in main air reservoir falls below safe pressure with warning signal included.
✓			7. The compressor shall be a single or two-stage water-cooled type with a Minimum flow of 12 CFM. <i>31.8 CFM</i>
✓			8. Bendix AD-IP dryer or OEM Equivalent Specify Brand of Dryer: <u>Wabco</u> Specify Type/ Item # of Dryer: <u>SS</u>
✓			9. Drain valve system for all air tanks must be conveniently operated from side of chassis.
✓			10. Tractor shall be equipped with tractor protection air valve and coiled air hoses for trailer hook-up.
NOTES/COMMENTS:			

I. ENGINE

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. The Engine shall be Diesel, be a minimum of 12.8 Liter actual displacement with a rating of 425 HP and 1450 torque. <i>1550</i> NO OTHER ENGINE WILL BE ACCEPTABLE without written approval by the NDOT five (5) days prior to Bid Opening.
✓			2. Vertical Stack and Vertical Muffler Stack shall have a heat shield with 90 degree elbowed exhaust outlet that is a minimum of 12 inches above the top of the cab with least amount of loss CT. Elbowed exhaust outlet must be equivalent material and finished as stack.
✓			a. Elbowed exhaust outlet must be of equivalent material and finished as Stack.
✓			3. Temperature controlled fan and fuel/water separator required.
✓			4. Engine to be equipped with 110 volt AC engine coolant heater:
✓			a. Male receptacle with cover for electrical wire for engine heater is to be sturdily mounted.
✓			5. Engine Cold Starting Aid required. May be any of the following: a. Cartridge (to be furnished with warm engine cut off); b. Glow plugs c. Intake grid heater; or, d. Computer engine control or Equivalent Specify Type of Engine Cold Starting Aid: <u>Preheater</u>
NOTES/COMMENTS:			

J. FILTERS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	NO		1. Includes disposable, Full Flow Oil filter.
✓	NO		2. Dual Element Air Cleaner required. Donaldson Filtration Solutions or Equivalent. Specify Air Cleaner Brand: <u>Valvo</u>
NOTES/COMMENTS:			

K. COOLING

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	NO		1. Manufacturer's heaviest duty cooling capacity radiator.
✓	NO		2. Coolant filter if required by engine manufacturer.
✓	NO		3. Trucks shall have Ethylene Glycol base antifreeze protection to minimum 34 degrees below zero Fahrenheit.
NOTES/COMMENTS:			

L. FUEL TANKS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	NO		1. Total Fuel Tank capacity shall be a minimum of 150 GL and provided by dual step tanks or side mounted frame tanks of approximately equal capacity. Specify Fuel Tank Capacity: <u>left 100/Right 50</u>
✓	NO		2. All Fuel Tanks, of any type, shall be regular accessory units as Shown And Listed In the Truck Manufacturer's Data Books.
✓	NO		3. DEF tank to be mounted on driver's side of truck.
NOTES/COMMENTS:			

M. WHEELS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	/		1. Eleven (11) 22.5 inch by 8.25 inch steel disc wheels with ten (10) stud, hub-piloted steel disc with 11.25 inch diameter bolt circle.
✓	/		2. Wheels should be identical in color, interchangeable and rear wheels and tires must be spaced to permit use of tire chains.
NOTES/COMMENTS:			

N. TIRES

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	/		1. Tires shall be:
✓	/		a. Steel belted radials of tubeless type.
✓	/		b. 11R22.5 14 ply on rear.
✓	/		c. 12R22.5 16 ply on front and spare.
✓	/		d. Front tires and spare shall have highway tread.
✓	/		e. Rear tires shall have traction tread design.
✓	/		2. Tire brands shall be:
	/		a. Goodyear;
	/		b. Michelin;
	/		c. Bridgestone;
	/		d. Firestone
	/		e. Continental; or,
	/		f. General.
			Tires shall carry said company name on sidewalls of tires
			Specify Brand of Tire Being Bid: <u>Bridgestone</u>
NOTES/COMMENTS:			

O. CAB

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. Air Suspension Cab with locks on doors.
✓	✓		2. National Brand Model 200 series or OEM Equivalent Seats:
✓	✓		a. Equivalent Brand/Model bid must be approved by NDOT Specify Brand/Model Being Bid: <i>National 200</i>
✓	✓		b. High back seats with air lumbar support on both driver and passenger sides
✓	✓		c. Seats to have cloth covering
✓	✓		d. Seats must have the ability to adjust forwards and backwards on gliders
✓	✓		e. Seats must be able to provide 6.5 inches of travel.
✓	✓		f. Seat mounted arm rest outboard to be furnished on both driver and passenger seats.
✓	✓		i. Molded outboard armrest on front door of truck is acceptable.
✓	✓		3. Seat mounted armrests, both inboard and outboard, to be furnished on both driver and passenger seats. If outboard arm rest is available by molded arm rest on door of truck, that is acceptable.
✓	✓		4. Power electric windows on both side windows.
✓	✓		5. Tinted safety glass in Cab.
✓	✓		6. Step or Running Board(s) shall be on each side of Cab.
✓	✓		7. Interior finished to exclude excessive noise and weather.
		✓ interior	8. Exterior and Interior Cab Grab Handles shall be on both sides of truck to facilitate entry into the truck.
✓	✓		a. Interior Grab Handles are acceptable only if Exterior Grab Handles are not included.
✓	✓		9. Air Suspension Cab required.
✓	✓		10. Tilt steering console required.
NOTES/COMMENTS:			

P. COLOR

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. Truck will be highway safety yellow
✓	✓		a. Contractor must provide a color chip for approval.
✓	✓		2. Paint will be base coat/clear coat acrylic, activator-hardened acrylic or polyurethane type.
NOTES/COMMENTS:			

Q. MIRRORS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. Rear vision, rectangular Western Type or OEM mirrors with bright finish housing.
✓	✓		2. Size 16 inch by 7 inch (approximately 110 square inches).
✓	✓		3. Mirrors mounted on right and left doors of Cab, extendable to maximum legal width. OEM A pillar also acceptable.
✓	✓		4. Mirrors to be power adjustable and heated.
✓	✓		5. Minimum 8-inch convex mirror mounted on right and left side of truck below standard mirror.
NOTES/COMMENTS:			

R. LIGHTS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓	✓ LED	1. Lights to include halogen high beam headlights with low beam, OEM LED headlights also acceptable, parking light(s), dome light, double tail and stop lights and front and rear directional turn signal lights.
			a. Stop, Tail Turn and Marker lights to be LED.
NOTES/COMMENTS:			

S. CONTROLS AND INSTRUMENTS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	✓		1. To include key locking ignition switch, headlight, parking light and dome light switches, traffic hazard switch; headlight beam control, and speedometer.
✓	✓		2. To include voltmeter; oil pressure gauge, fuel gauge, engine temperature gauge, air pressure gauge.

✓			3. To Include high beam indicator lights, flashing turn-indicator lights, two (2) sets of keys required per vehicle. Self-canceling turn signal switch on steering column.
✓			4. Engine hour meter, tachometer and vacuum restriction gauge for air cleaner are required.
✓			a. Filter Minder brand dash mounted vacuum restriction gauge, or Equivalent, is acceptable if a vacuum restriction gauge on dash is not offered by Manufacturer. Specify Brand/Model being bid: <i>Indicator in Gauge Cluster</i>
✓			5. Cruise control system with electronic engine idle control required.
NOTES/COMMENTS:			

T. WINDSHIELD WIPERS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. Heaviest duty, dual, electric windshield washer with intermittent capacity to be included.
NOTES/COMMENTS:			

U. ELECTRICAL

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. 2 volt System, with a minimum of three (3) batteries included.
✓			2. Manufacturer's recommended batteries for a diesel engine to be a minimum of 2200 CCA.
✓			3. Alternator:
✓			a. Alternator shall be a Delco 28Si, or Equivalent.
✓			b. Equivalent Brand/Model bid must be approved by NDOT Specify Brand/Model Being Bid: <i>Delco 36SI</i>
✓			c. Alternator of a minimum 160 amperes required. <i>160s</i>
NOTES/COMMENTS:			

V. FIFTH WHEEL ASSEMBLY

YES	NO	NO & PROVIDE ALTERNATIVE	
<input checked="" type="checkbox"/>	<input type="checkbox"/>		1. Fifth wheel assembly required.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		2. Holland or Fontaine brand Specify Fifth Wheel Assembly: <u>Holland</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>		3. 24 inch adjustable air slide for a two (2) inch pin required.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. Height of approximately 8.5 inches.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		5. Cast steel type "A" lock, right side release.
NOTES/COMMENTS:			

W. GENERAL

YES	NO	NO & PROVIDE ALTERNATIVE	
<input checked="" type="checkbox"/>	<input type="checkbox"/>		1. Single electric and dual air horns and two (2) padded sun visors included.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		2. Truck manufacturer's recommended outside air intake heater with entire windshield defroster and power outlet on dash.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		3. Manufacturer's standard manually controlled air conditioning.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. Seat belts for right and left seats with lap/shoulder retractors.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		5. Factory installed AM/FM radio, preferable with antenna mounted on cowling instead of top of Cab.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		6. Mud flaps must be furnished and mounted as required by FMCSA
<input checked="" type="checkbox"/>	<input type="checkbox"/>		7. Dealer nameplate(s) and sign(s) shall not face to rear of unit.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		8. Truck tractor to be wired with 7-way ATA trailer outlet connection for semi-trailer lights and turn signals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>		9. Coiled electrical line required.
NOTES/COMMENTS:			

X. RADIO FREQUENCY SHIELDING – Caution !!

YES	NO	NO & PROVIDE ALTERNATIVE	
<input checked="" type="checkbox"/>	<input type="checkbox"/>		1. The chassis and/or installed components and equipment shall be compatible with use of NDOT mobile and/or two-way communications devices. Main communication radio operates in low band range of 47 MHz to 48 MHz, but all frequencies apply including low band, high band, UHF and VHF.

✓			2. The chassis and/or installed components and equipment shall be manufactured to meet all current SAE and/or ISO Standards applicable and/or relevant to Electromagnetic Compatibility.
✓			3. NDOT will conduct testing of radio/two-way when installed in chassis. NDOT will notify Contractor if normal operational parameters are not met due to degradation of signals caused by electromagnetic emissions from chassis of installed components and equipment. Contractor shall be required to work with NDOT personnel to reduce interference level to a point acceptable to NDOT normal radio operating parameters. Contractor shall have 30 days to resolve radio frequency interference issue.
✓			4. Contractor and/or manufacturer will be responsible for any and all cost to replace and/or modify any parts found to cause radio frequency interference. If NDOT and Contractor cannot resolve source of radio frequency interference the unit will be sent to an independent accredited lab for testing to ensure SAE and/or ISO Standards compliance. Testing shall be done to SAE and/or ISO standards which were current at date of bid. Should the chassis and/or installed components and equipment fail testing at the accredited lab, the Contractor shall be responsible for all cost incurred for testing.
✓			5. If, after testing by NDOT and/or accredited lab, the Contractor is unable or unwilling to incur the cost and correct the radio frequency interference issue to the satisfaction of NDOT, all orders and corresponding Contract will be canceled.
NOTES/COMMENTS:			

Y. WARRANTY

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. The manufacturer's regular warranty certificate will be required with each unit delivered and the warranty shall apply, in all cases, with the following exceptions:
✓			a. Manufacturer's written warranty including engine, transmission and differential must accompany delivered units.
✓			b. Full, manufacturer's warranty coverage will be required for the stated warranty period, beginning at assignment date, in addition to the time between delivery and field assignment. Warranty delay sheet to be completed by Contractor.
✓			c. Prior to the awarding of, or entering into any agreement or contract, it shall be the responsibility of the manufacturer and/or the successful bidder to warrant to the State, in writing, that it has factory authorized dealers in the State who will provide warranty/service and repair work without undue delay.
✓			d. It is understood that the bidder accepts the above warranty requirements when offering a bid.
✓			e. NDOT warranty form to be completed by Contractor. Failure to complete for will result in a \$500.00 deduct.
NOTES/COMMENTS:			

Z. SERVICE

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	NO		1. Manufacturer's standard warranty, completed pre-delivery inspection certificate, Manufacturer's Statement of Origin and line sheet will be required with each unit delivered.
✓	NO		2. Service policy shall be honored by all of the manufacturer's authorized dealers in the State.
✓	NO		3. Dealer's decals, stickers, or other signs shall not be put on units; manufacturer's nameplates, stampings and other similar signs are acceptable.
NOTES/COMMENTS:			

AA. MANUALS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	NO		1. Owner's/operator's manual must accompany each unit delivered.
✓	NO		2. Service and Parts manual for chassis and engine. May be in a printed format, CD-ROM, Flash drive or online. If online access will be given free of charge for 12 years.
✓	NO		3. All manuals must be furnished prior to payment and delivered to Fleet Management, Equipment Data Coordinator.
✓	NO		4. Failure to deliver all manuals that are ordered may result in non-payment of ten percent (10%) of purchase order total, until all manuals are delivered.
NOTES/COMMENTS:			

BB. SPECIFICATION FORM

YES	NO	NO & PROVIDE ALTERNATIVE	
✓	NO		1. "Specification Form(s)" will be provided by NDOT to the Contractor when a purchase order is issued.
✓	NO		2. The Contractor will be required to complete the "Specification Form(s)" for each unit, to the fullest extent possible, and must accompany each unit when delivered.
✓	NO		3. If the Contractor does not properly complete the "Specification Form(s)" for each unit, a sum of \$500.00 per unit will be deducted from the purchase order total.
NOTES/COMMENTS:			

CC. DELIVERY LOCATIONS, INSTRUCTIONS AND PAYMENT

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			<p>1. After Contractor completes pre-delivery service, Contractor shall deliver the unit to:</p> <p>Nebraska Department of Transportation (NDOT) 5001 South 14th Street Lincoln, NE 68512</p> <p>Delivery between 9:00 am and 3:00 pm Monday through Friday, excluding State and Federal holidays.</p>
✓			<p>2. Each unit shall be delivered with no less than ten (10) gallons of fuel in tanks.</p>
✓			<p>3. Contractor must notify NDOT Fleet Management a minimum of 24 hours prior to delivery of units to NDOT Monday through Friday, excluding State and Federal holidays:</p> <p>NDOT Fleet Management contacts are:</p> <p>a. (402) 479-4319 b. (402) 479-4323</p>
✓			<p>4. Manufacturer's Statement of Origin and other pertinent purchasing documents must accompany the invoice.</p>
<p>NOTES/COMMENTS:</p>			

DD. MOTOR VEHICLE INDUSTRIES REGULATION ACT

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			<p>1. All Contractors must comply with the licensing requirements for motor vehicle dealers established under the Motor Vehicle Industries Regulation Act, Nebraska Revised Statutes, Chapter 60, Article 14 at time of Bid. Bid s will only be accepted from Contractors who are fully compliant with the Motor Vehicle Industries Regulation Act, Chapter 60, Article 14.</p>
<p>NOTES/COMMENTS:</p>			

EE. ANNUAL USAGE, ESTIMATED

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			<p>1. Annual usage figures provided are estimates and are not to be construed as either a minimum or maximum purchase quantity. The orders shall be for the actual quantities of each item ordered by or for any Agency during the life of the contract. Contractor shall not impose minimum order requirements.</p>

✓			2. Estimated Annual Usage 1-2 units.
NOTES/COMMENTS:			

FF. USAGE REPORT

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. The Contractor shall, upon request from SPB at any time as determined by the State, provide a Usage Report of this Contract by State Agencies and Political Subdivisions. SPB will determine the reporting period for the Usage report. Information may include: <ul style="list-style-type: none"> a. Agency or Political Subdivision name; b. Item description; c. Item number; d. Item dollar amount; e. Number of orders received; f. Orders processed; g. Back orders; and, h. Partially filled orders.
NOTES/COMMENTS:			

GG. DELIVERY ARO

YES	NO	NO & PROVIDE ALTERNATIVE	
✓		✓	1. Delivery desired within 90 days after receipt of order(s). Specify ARO: _____
NOTES/COMMENTS: <i>↳ Covid has changed production schedule. We have been able to get trucks slotted quickly but it depends on order receipt date.</i>			

HH. ORDERS

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. Orders will be placed through e-mail
✓			2. All orders must reference a purchase order number and the purchase order number must be referenced on the packing slip, and invoice. Invoices are to be sent to the "Invoice to" address on the purchase order.
NOTES/COMMENTS:			

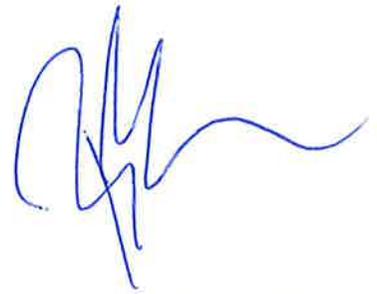
II. QUALITY

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. Product quality must meet specifications and be consistent for the term of the contract. All materials must be of first quality, under standard production by the manufacturer and be of standard design, complete as regularly advertised and marketed and be of proven performance.
✓			2. A guarantee of satisfactory performance by the Contractor and meeting delivery dates are considered to be an integral part of the purchase contract resulting from this Bid invitation.
✓			3. Products are to be fully guaranteed and may be returned for full credit or replacement (at the State's option) for any reason during the initial warranty period with no additional charges for shipping or restocking.
<p>NOTES/COMMENTS:</p> <p><i>We can guarantee nominal delivery due to Covid</i></p>			

JJ. AUTHORIZED DEALER & WARRANTY

YES	NO	NO & PROVIDE ALTERNATIVE	
✓			1. To the extent required by the manufacturer, the Contractor shall be an authorized dealer. Contractor may be required to substantiate that he/she is an authorized dealer. Proof, if required, must be submitted to SPB within three (3) business days of the request and prior to the award of any contract.
✓			2. The terms of the original manufacturer's standard warranty shall apply to all equipment acquired from this solicitation for the entire warranty period.
<p>NOTES/COMMENTS:</p>			

**ADDENDUM ONE
QUESTIONS and ANSWERS**



Date: 06/02/20
 To: All Bidders
 From: Christie Kelly, Buyer
 AS Materiel State Purchasing Bureau (SPB)
 RE: Addendum for Invitation to Bid (ITB) Number 6307 OF, Truck Tractor Chassis with Tandem Rear Axle, to be opened June 9, 2020 at 2:00 P.M Central Time

1. Following are the questions submitted and answers provided for the above-mentioned Invitation to Bid. The questions and answers are to be considered as part of the Invitation to Bid. It is the Bidder's responsibility to check the SPB website for all Addenda or Amendments.

<u>Question Number</u>	<u>Question</u>	<u>State Response</u>
1	Do you have specs that you are requiring for the wet kit? There are a lot of variables that go into them.	<p>Pump shall have a minimum of 22 GPM/2,000 PSI.</p> <p>Hoses must be of adequate length to reach the trailer with couplers.</p> <p>The wet kit must have the ability to use with sliding axle trailers.</p>
2	do you have any specs on the half fenders?	No. All units have half fenders and may vary from model to model.
3	Do you anticipate extending the bid due date?	<p>No, not at this time.</p> <p>Per Section I. Procurement Procedure, Subsection H. Submission of Bids: "It is the responsibility of the Bidder to check the website for all information relevant to this ITB to include Addenda and/or Amendments issued prior to the Opening Date".</p> <p>Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html</p>
4	What additional details are you willing to provide, if any, beyond what is stated in bid documents concerning how you will identify the winning bid?	<p>No additional details to be provided.</p> <p>Please see Section I Procurement Procedure, Subsection R-Award, for the process of identifying the winning bid(s).</p> <p>Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html</p>
5	Was this bid posted to the nationwide free bid notification website at https://gcc02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.mygovwatch.com%2F&data=02%7C01%7Cchristina.kelly%40nebraska.gov%7Cb1f0398ad04c4ab2a03108d80252d3b5%7C043207dfe6894bf6902001038f11f0b1%7C0%7C0%7C637261902041601175&data=cTA%2F7Sc4LKH2w5zSSPv%2FkDBEsxRcNICISNkJwdVXSxw%3D&reserved=0?	<p>The State of Nebraska only uses the State Purchasing Bureau (SPB) website to post State of Nebraska Bid Opportunities.</p> <p>Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html</p>



VNR64T300



Prepared For:

CONNIE HEINRICHS

STATE OF NEBRASKA - STATE
PURCHASING BUREAU

402-471-2401

n/a

Mon, Jun 08, 2020 11:01:33 AM EST

Prepared By:

BRIAN ASKEW

BRIAN.ASKEW@NATTINC.COM

VOLVO TRUCKS OF OMAHA, INC.



Vehicle Spec

BASE MODEL		Description	Front Weight	Rear Weight	Price
004371	BASE MODEL	VNR64T300	7,437	4,248	152,593
MODEL PACKAGE					
S 012371	MARKETING MODEL	VNR64T300	0	0	0
VEHICLE ADAPTATION					
O 263005	VEHICLE APPLICATION	TRACTOR / FLAT BED TRAILER	0	0	0
O 898003	VEHICLE WARRANTY QUALIFICATION	STANDARD HEAVY DUTY WARRANTY QUALIFIED	0	0	0
O 259003	VEHICLE VOCATION	CONSTRUCTION SERVICE	0	0	0
O 938001	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0	0
PASSIVE AND ACTIVE SAFETY					
S 2CXD1X	CAB TYPE	HIGH-STRENGTH STEEL (HSS) DAY CAB	0	0	0
O DUXZ1X	SRS AIR BAG	NO AIR BAG PROVIDED	-2	-1	-129
O 43X50X	AUXILIARY DOWN VIEW MIRROR	DELETE DOWN VIEW MIRROR OVER PASSENGER DOOR	-1	0	-7
ENGINE					
O 1018F8	ENGINE PACKAGE	VOLVO D13 425HP 2100RPM 1550 LBFT - EPA'21 EMISSION LEVEL	346	0	876
ENGINE EQUIPMENT					
O 208021	FAN CLUTCH PACKAGE	KYSOR ON / OFF FAN CLUTCH	9	-1	-18
O 810113	BATTERY PACKAGE	3 VOLVO 760 CCA MAINTENANCE FREE 12V BATTERIES, 2280 CCA	36	12	76
O NQXB1X	BATTERY BOX CONFIGURATION	BATTERY BOX - 3 CAPACITY	0	0	0
O NFXZ1X	BATTERY DISCONNECT SWITCH	NO BATTERY DISCONNECT SWITCH PROVIDED	-2	0	-16
O LLXD1X	EMERGENCY START SYSTEM	EMERGENCY START STUDS, HEX JUMP STUDS ON ALL BATTERY POST	1	0	7
O JVXBBX	PRIMARY FUEL FILTER	RACOR 6901, FUEL FILTER, WATER SEPARATOR	0	0	58
O 5NXA1X	ENGINE BLOCK HEATER	PHILLIPS 120V 1500W LEFT HAND RECEPTACLE BLOCK HEATER	5	0	81
U 999J2E	ENGINE BRAKE ACTIVATION	DELETE ENGINE BRAKE - NOT REQUIRED FOR STATE BID	0	0	0



○ 781056	PARKING BRAKE CHAMBER PACKAGE	FOUR CAM TYPE HALDEX	0	27	95
○ 784009	FRONT AND REAR SLACK ADJUSTERS	HALDEX BRAKE ADJUSTER FRONT AND REAR	0	0	0
○ 05BD1X	FRONT BRAKE CHAMBER SIZE	FRONT BRAKE CHAMBER 24 SQUARE INCHES (SERVICE)	0	0	0

CHASSIS

○ 3XBEAX	DRIVER SIDE FRONT CHASSIS CONFIGURATION	LEFT HAND BATTERY BOX - 3 CAPACITY, DEF TANK MOUNTED BEHIND BATTERY BOX (VNL / VNR)	0	0	0
○ 400200	WHEELBASE	200" WHEELBASE	317	316	557
○ 402057	OVERHANG	57" OVERHANG	0	180	0
○ KBXB2X	FUEL TANK SHAPE, LIQUID	26" DIA D-SHAPED FUEL TANK	0	0	0
○ J8XEWX	LIQUID FUEL TNK, LEFTHAND SIDE	100 GALLON LEFT HAND FUEL TANK	10	11	192
X J9XATX	LIQUID FUEL TNK, RIGHTHAND SIDE	50 GALLON RIGHT HAND FUEL TANK	46	46	684
A 8HAC1X	AIR TANK ARRANGEMENT	IN FRAME AIR TANKS	0	0	0
○ 403005	FRAME RAIL PACKAGE	11.81"X3.54"X.31" STRAIGHT STEEL RAILS	0	0	283
○ 4DXA5X	FRONT BUMPER	STEEL AERO BUMPER W/END CAPS	-5	0	-7
○ 68XAAX	REAR FENDER	RUBBER QUARTER FENDER WITHOUT LOGO	12	22	92
○ 67XC1X	MUDFLAP TYPE, REAR AXLE	LDPE REAR MUDFLAP WITHOUT LOGO	-6	24	57
○ 69XB7X	MUDFLAP HANGERS, REAR AXLE	SPRING MOUNTED B-33 PAINTED 45 DEG CUTOFF	-4	19	5
○ IDXB1X	MUDFLAP HANGER LOCATION (CA)	BASIC MUDFLAP BRACKET LOCATION	0	0	0
○ 8QAC1X	REAR FENDER HEIGHT (CA)	BASIC REAR FENDER HEIGHT	0	0	0
○ 4EXK1X	FRONT TOWING DEVICE	PREP KIT FOR TWO FRONT TOWING DEVICES	-8	-8	-12
○ U7CFGX	LH FUEL TANK FACE LOCATION	LH FUEL TANK FRONT FACE @ XM=4575	0	0	0
○ U8CCPX	RH FUEL TANK FACE LOCATION	RH FUEL TANK FRONT FACE @ XM=4965	0	0	0

TRANSPORT ADAPTATION

○ 7KXA3X	BACK OF CAB (BOC) ACCESS PACKAGE	LEFT HAND BACK OF CAB ACCESS WITH 20" LOW PROFILE DECK	12	17	209
○ 490258	FIFTH WHEEL PACKAGE	SAF HOLLAND FW35 AIR SLIDE RIGHT HAND RELEASE FIFTH WHEEL	38	388	361
○ E5BATX	GROUND TO 5TH WHEEL TOP HGT.	48.5" FIFTH WHEEL HEIGHT	0	0	0



○ 093778	TIRE PACKAGE FRONT	12R22.5H BRIDGESTONE R268 ECOPIA (14780 LBS. GAWR) REGIONAL / URBAN USAGE	564	0	645
○ 4WCE1X	TIRE CLASSIFICATION FRONT (CA)	GHG FRONT TIRE CLASSIFICATION, BASIC	0	0	0
○ 6VXA1X	SPARE WHEEL & TIRE	ONE SPARE WHEEL WITH TIRE MOUNTED (SAME AS FRONT)	0	0	647
○ 907003	FRONT WHEEL AND TIRE QUANTITY	THREE FRONT WHEELS AND TIRES	0	0	0

TIRES AND WHEELS REAR

○ 094751	TIRE PACKAGE REAR	11R22.5G BRIDGESTONE M760 ECOPIA (23360 LBS. GAWR) LONG / REGIONAL HAUL	0	1,080	736
○ 4XCE1X	TIRE CLASSIFICATION REAR (CA)	GHG REAR TIRE CLASSIFICATION, BASIC	0	0	0

PAINT

○ 9804P3	FIRST TRUCK COLOR	PREM SAFETY YELLOW; 754338	0	0	333
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BASE WARRANTY AND PURCHASED COVERAGES

○ 899302	WARRANTY TYPE	HEAVY_DUTY_STANDARD_BASE_COVERAGE 12_MONTHS / 100,000_MILES	0	0	0
○ 880009	TRANSMISSION COVERAGE	36 MTHS: EATON FULLER STANDARD DUTY WARRANTY FOR ALL MANUAL AND AUTOMATED TRANSMISSIONS, ANY TORQUES	0	0	0

SUB TOTALS

BASE WEIGHT/PRICE	7,437	4,248	152,593
FACTORY OPTION WEIGHT/PRICE	2,166	3,618	12,826
DEALER OPTION WEIGHT/PRICE	0	0	0

TOTALS

TOTAL PRICE(\$)			165,419
TOTAL WEIGHT(LB)	9,603	7,866	17,469



1018F8 **Volvo D13 425 HP 2100RPM 1550 lb-ft – EPA'21 Emission Level**
Updated: **October 23, 2019**

New One Box Exhaust System



- Lighter weight (17 lbs. lighter)
- Takes up less frame rail space (up to 1 foot)
- Easy filter replacement

Intake Throttle



- Faster warm-up at start-up
- Allows better control of after treatment temperatures
- Smoother engine shut down, reduced engine vibrations at key-off.

EGR Flow Sensor Improvements



A new venture concept using a plastic cover keeps pressure ports warm and protects the EGR flow sensor from cold wind blasts, reducing condensation and preventing soot build up.

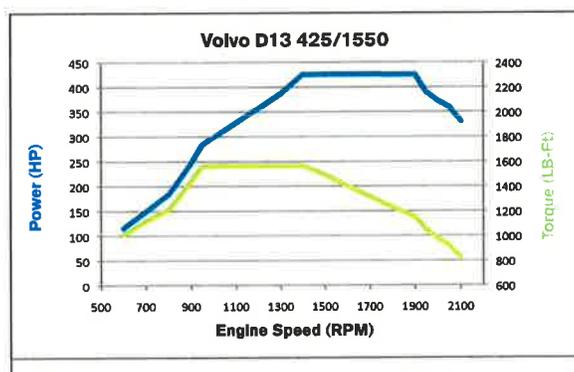


VOLVO D13

425 / 1550



Just like the entire Volvo engine family, the D13 is designed to produce the power needed for your specific application, the fuel economy crucial to your bottom line, and the reliability your customers demand. Volvo achieves these goals by starting with a foundation of proven, mature engine architecture, and then leveraging innovative hardware and technology to optimize performance, productivity and efficiency. Thoughtful features are expertly integrated to deliver the solution for your needs.



Advertised Power, HP	425
Peak Torque, lb-ft@rpm	1550@1000

Governed rpm	2100
Recommended cruise speed range, rpm	1250-1500

SPECIFICATIONS

Ratings:	Power: 425 HP Torque: 1550 lb-ft
Base Engine Configuration	4 cycle / Inline Six
Emissions	SCR Selective Catalytic Reduction
Aspiration	Sliding Nozzle Variable Geometry Turbocharger
Cam / Valve Configuration	SOHC / 4 Valves per Cylinder
Cylinder Head	One Piece Rigid Deck Cylinder Head
Injection System	Common Rail
Maximum Fuel Injection Pressure, psi (bar)	35,000 (2,400)
Rating Uprateability	Software Only, Throughout Range
Displacement, cu. in. (L)	780 (12.8)
Compression Ratio	17:1
Bore & Stroke, in. (mm)	5.16 x 6.22 (131 x 158)
Cylinder Spacing, in. (mm)	6.61 (168)
Full Dress Dry Weight, lb. (kg)	2605 (1182)
Fuel and Lubrication:	
Fuel Specification	Ultra Low Sulfur Diesel, 15 ppm
Fuel Filters	Primary plus Secondary
Total Lube Oil Capacity, qts. (L)	42 (40)
Oil Filtration	Two Full Flow
Oil Drain Interval, Normal Service, miles (km)	60,000 (96,580)*
Oil Specification	Volvo VDS-4.5, SAE 10W-30
FLOCS Oil Drain Kit	Optional
Engine Equipment:	
Air Compressor, CFM	Two Cylinder, 31.8
Retarder	I-VEB Volvo Engine Brake (VEB)
Engine Brake Rating at 2200 rpm	500 hp @ 2200 rpm
Engine Brake Rating at 1500 rpm	350 hp @ 1500 rpm
Engine Brake Weight, lbs. (kg)	25 (12)
PTO Port for Live Rear PTO Pump or Shaft	Standard on VHD
Preheater, Electrical	Optional

*Volvo VDS 4.5 Genuine Oil. Application at 6 mpg or greater.

PRODUCT INFORMATION



270733 Eaton 10 Speed Fuller FRO-15210C

Affects: All Models
Related: Engine Package (101)
 Clutch (250)
 Rear Axle Ratio (TAX)
Updated: March 15, 2019

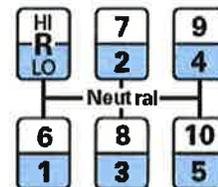
The Eaton Fuller FRO Series transmissions offer excellent performance, reliability and durability while delivering additional payload carrying capacity with engines up to 1850 lb-ft torque. The FRO series also provides improved tolerance to driver abuse and more precise shifting which helps improve performance and reduce operating costs.

Features

- Improved tolerance to driver abuse with larger diameter mainshaft and new mainshaft washer design
- Patented SynchroSaver™ feature protects against range synchronizer damage caused by improper operation
- Integrated air module improves reliability by eliminating separate components and external air hoses
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal
- Better rail definition, more precise shifting and improved durability with patented single-rod shift controls
- Increased payload capacity with up to 32 lb. weight reduction compared to RT series
- Enhanced PTO options, with relocated side opening and option for two through-shaft PTOs



Shift Pattern:



Specifications	Capacity	Weight*	Length**	Speeds
FRO-15210C	1550 lb-ft (2101 Nm)	602 lbs. (273.10 kg)	29.9 in. (760.22 mm)	10 forward, 2 reverse

* Less clutch housing, lubricant and end yoke

**Lengths listed are from face of clutch housing to front bottoming surface of companion flange or yoke

Ratios and Steps:

Model	Overall	REVERSE		1		2		3		4		5		6		7		8		9		10	
		L	H		%		%		%		%		%		%		%		%		%		%
FRO-15210C*	17.17	13.75	2.80	12.69	37	9.29	38	6.75	38	4.90	35	3.62	40	2.59	37	1.90	38	1.38	38	1.00	35		.74

* Transmission can be rated at 100 additional lb-ft torque above the stated limit in the top two gears only

Additional Specifications:

- Clutch Housing SAE #1 and #2. Grey iron or aluminum available.

Power Take-offs:

- 2 SAE standard openings.
- *Right side*, regular duty, 6-bolt. *Bottom*, heavy duty 8-bolt. Through-shaft PTO upper right and/or lower left available.

PTO Drive Gears:

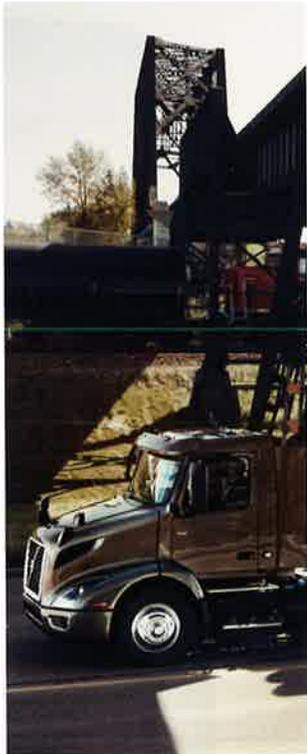
- *Right*: 6 bolt; 45-tooth; 6/8 pitch gear. *Left*: 8 bolt 47-tooth; 6/8 pitch gear.
- Turn at .84 engine speed - overdrive.

Oil Capacity:

- Approx. 11.8 qts (11.1 ltrs).
- Integral oil pump, available oil cooler.



SEE THE DIFFERENCE EVERY DIFFERENCE MAKES.



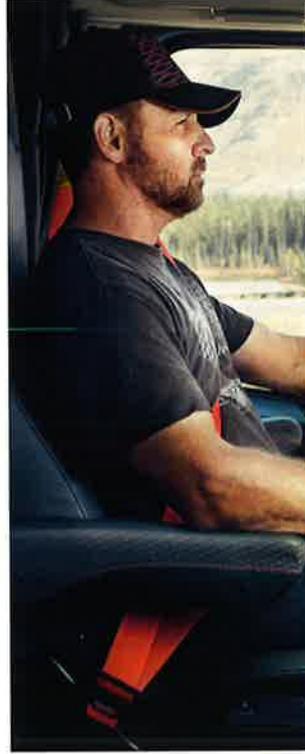
Fuel Efficiency:
Improving your bottom line.

Volvo maximizes fuel efficiency by bringing the right combination of solutions together to work in perfect harmony.



Driver Productivity:
Designed to compete.

Precisely refined, the VNR's productive driving environment puts the driver comfortably in command.



Safety:
Leading-edge technology.

Advanced accident avoidance and driver protection systems ensure that Volvo trucks are the safest on the road.



Uptime:
Confidence and control, customized.

Select from a suite of uptime products and services to keep your fleet running on schedule.

pg. **20**

pg. **28**

pg. **36**

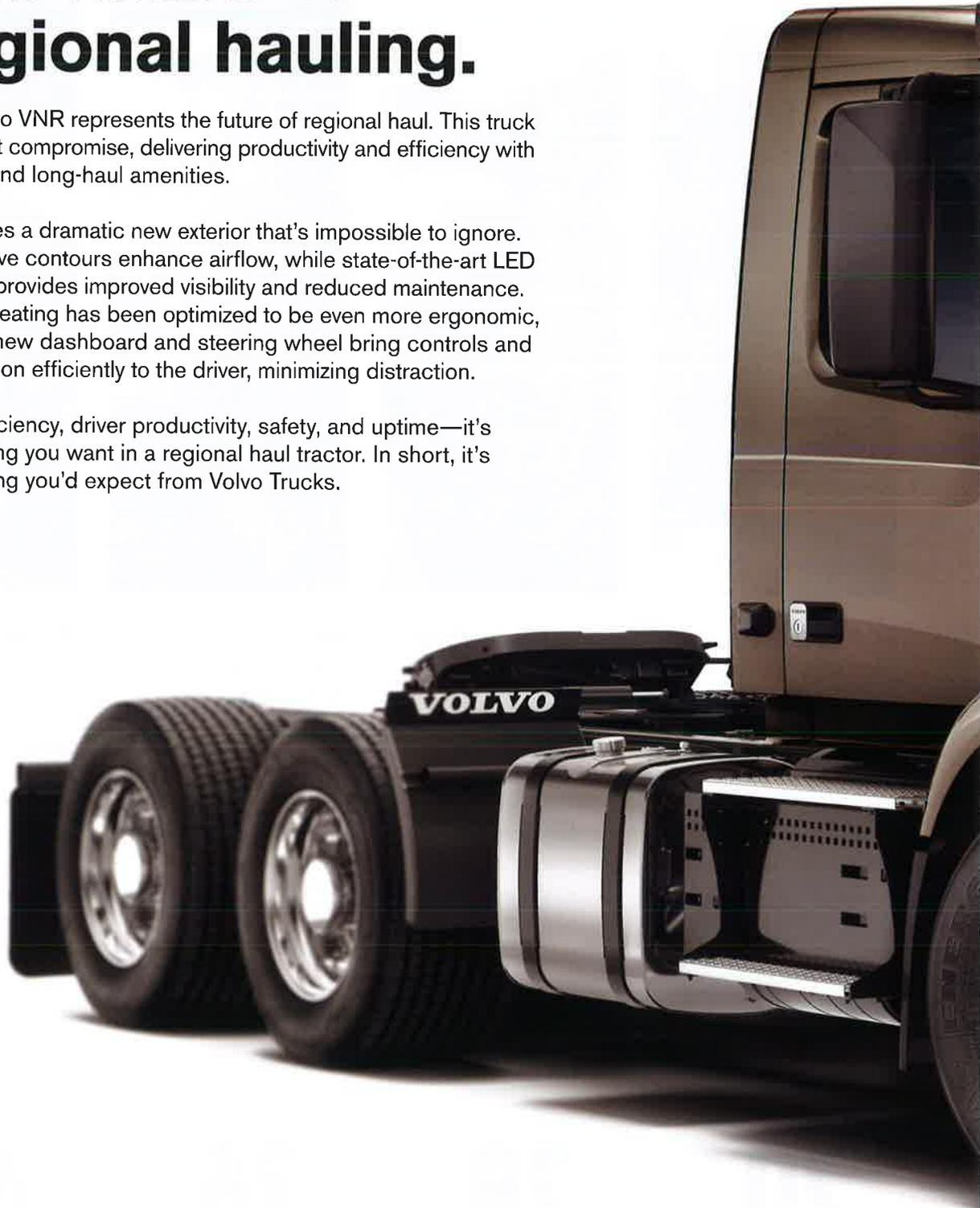
pg. **44**

The future of regional hauling.

The Volvo VNR represents the future of regional haul. This truck does not compromise, delivering productivity and efficiency with quality and long-haul amenities.

It features a dramatic new exterior that's impossible to ignore. Distinctive contours enhance airflow, while state-of-the-art LED lighting provides improved visibility and reduced maintenance. Inside, seating has been optimized to be even more ergonomic, while a new dashboard and steering wheel bring controls and information efficiently to the driver, minimizing distraction.

Fuel efficiency, driver productivity, safety, and uptime—it's everything you want in a regional haul tractor. In short, it's everything you'd expect from Volvo Trucks.





Ten reasons to love the Volvo VNR.



1. Forward collision warning.

A warning light flashes into the windshield to alert drivers prior to automatic braking being activated. Additional info on page 41.

2. Short, sloped hood and superior maneuverability.

The VNR's sloped hood optimizes visibility, while a BBC as short as 113" maximizes maneuverability. Read about it on page 13.

3. LED headlights.

All VNR models feature LED high/low beam headlights, plus LED turn, marker, and parking lamps. Learn more on page 38.

4. Volvo Active Driver Assist.

Able to control the truck's throttle and brakes, Volvo Active Driver Assist helps drivers maintain a safe following distance. Discover more on page 41.

5. Position Perfect™ steering wheel.

The VNR features a new three-motion tilt/telescope steering wheel that tilts in relation to the column. Learn more on page 31.

6. Redesigned dashboard.

A well-organized dashboard combines easy-to-read gauges, a five-inch color driver information display, and accessible controls. Additional info on page 31.

7. Upgraded interior.

The VNR driving environment has been refined to meet the needs of today's drivers. An optional built-in refrigerator under the passenger seat provides driver-accessible cold storage. Learn more on page 33.

8. Refined seating.

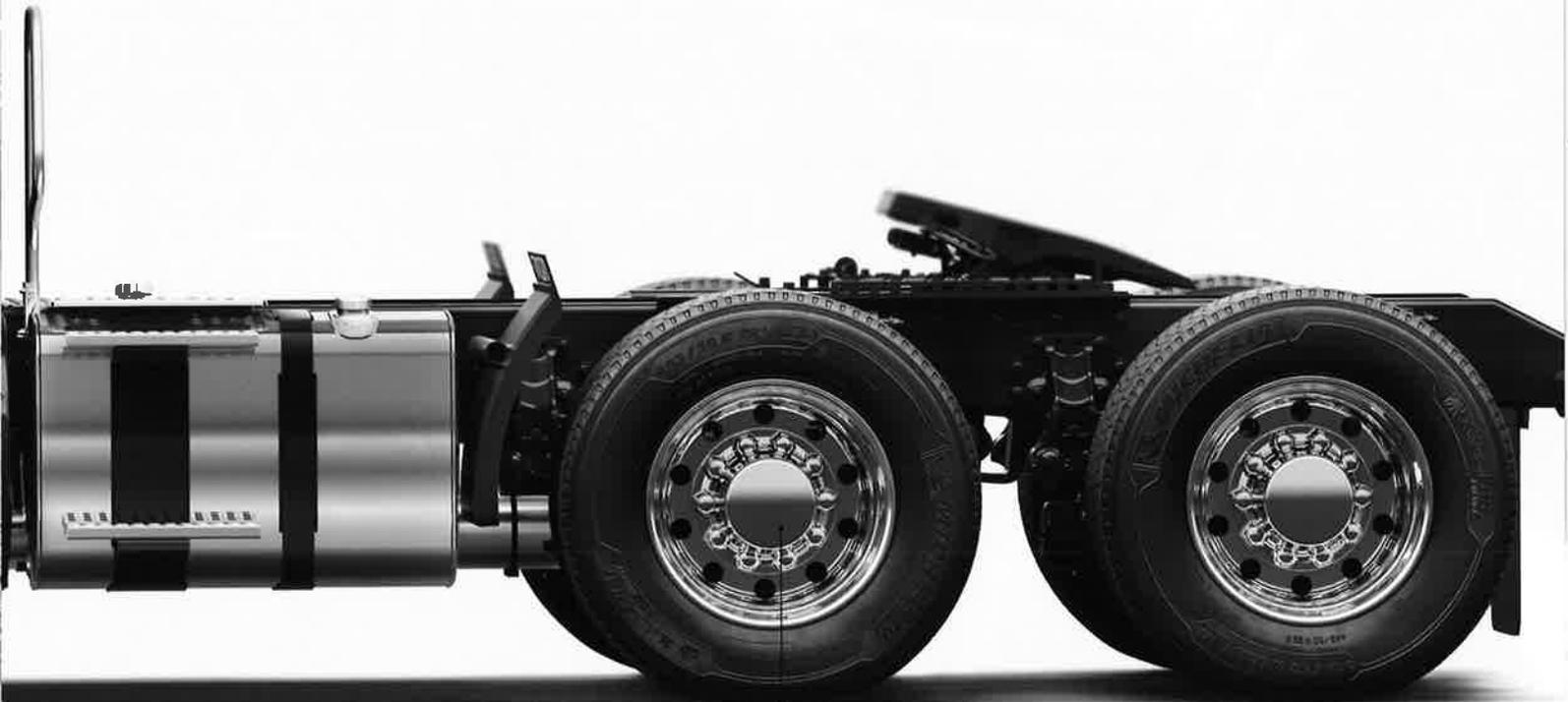
The Volvo VNR's seating benefits from refined design, placement, adjustment, and control access. Discover more on page 31.

9. Volvo I-Shift.

Volvo's automated manual I-Shift transmission reduces fatigue and keeps the driver focused on surrounding traffic. Read more about it on page 18.

10. Adaptive Loading.

A lift axle solution for 6x2 tractors, Adaptive Loading helps trucks run efficiently every mile of every haul. Additional info on page 24.



Not just workspace, a space that works.

The dashboard on the VNR has been optimized to reduce distraction by displaying the critical information a driver needs at a quick glance, and by grouping frequently used controls within easy reach.

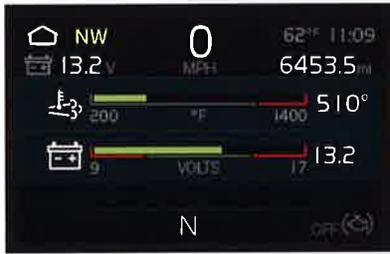
A configurable, five-inch driver color display, with improved graphics, works with steering wheel-mounted controls to provide key operating parameters, as well as access to system settings and configurable diagnostic aids.

A dash-top tray with multiple connections provides a safe, convenient home for a driver's many gadgets, which can also be linked to an optional in-dash infotainment system.

Always in view, the instrument cluster's clean, symmetrical layout, and diffused, light-green backlighting makes it easy to read, reducing eyestrain and fatigue.

Learn more: USA: VNR.volvotrucks.us | CAN: VNR.volvotrucks.ca





Configurable LCD screen.

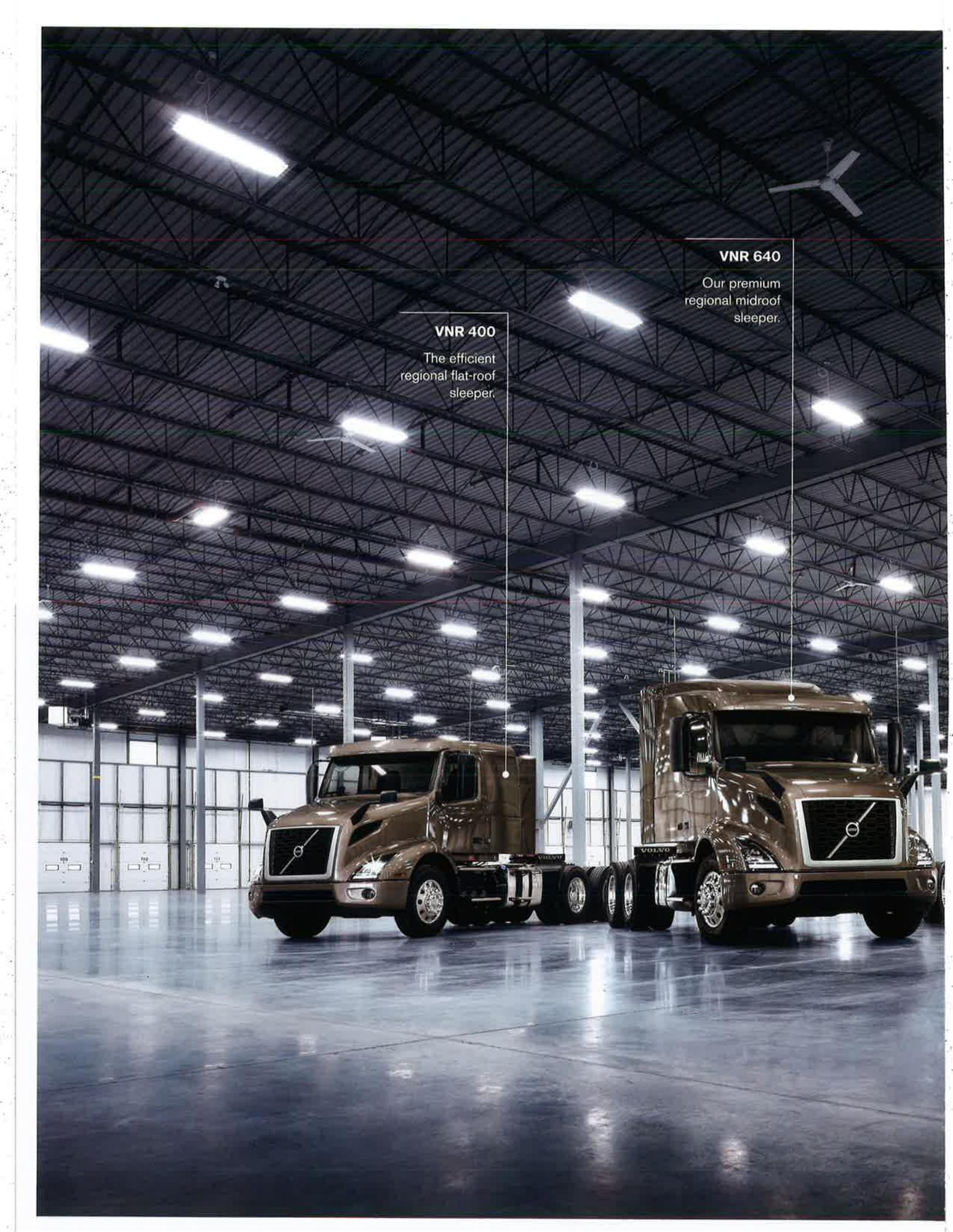
At the heart of the new and improved instrument cluster is a new color LCD display. A full five-inches wide, it can be configured to provide trip information, performance data, and a wide range of vehicle diagnostics.



Optional infotainment system.

The new infotainment system is optional in every VNR. It features a seven-inch color touch screen and an integrated premium audio system. Drivers can also choose to install navigation tools and a wide selection of third-party applications.



A large, modern warehouse with a high, vaulted ceiling and numerous bright lights. Two Volvo semi-trucks are parked on the polished floor. The truck on the left is a flat-roof sleeper, and the truck on the right is a mid-roof sleeper. Both are in a metallic gold or bronze color. The background shows large windows and structural beams.

VNR 400

The efficient regional flat-roof sleeper.

VNR 640

Our premium regional mid-roof sleeper.



VNR 300

The productive urban daycab.

It's time to meet the family.

Regional and local hauling presents its own unique set of demands. The Volvo VNR is built purposefully to meet and exceed these exacting requirements.

A daycab model delivers the maximum in payload and maneuverability, while sleeper models add efficiently configured accommodations for regional routes that may require a night or two away from home. A flat-roof sleeper is perfect for flatbed and tanker applications, and the midroof sleeper offers extra room for multi-day runs.

VNR 300 DAYCAB



How urban legends are born.



As the urban delivery market becomes increasingly competitive, you need a truck that's light on tare weight, not features. The cab of the VNR 300 brings precise refinement of the driving environment to a lightweight, efficient daycab. The cab interior is thoughtfully organized to keep daily-route drivers productive, comfortable, and happy.

An ergonomically optimized seating position is combined with a panoramic windshield and a short, sloped hood to provide a commanding view when navigating through congested city streets. With a wheel cut of up to 50 degrees and a BBC of just 113 inches, the VNR 300 delivers maximum maneuverability.

VNR 400 AND 640 SLEEPER





Efficiency— overnight or over the horizon.

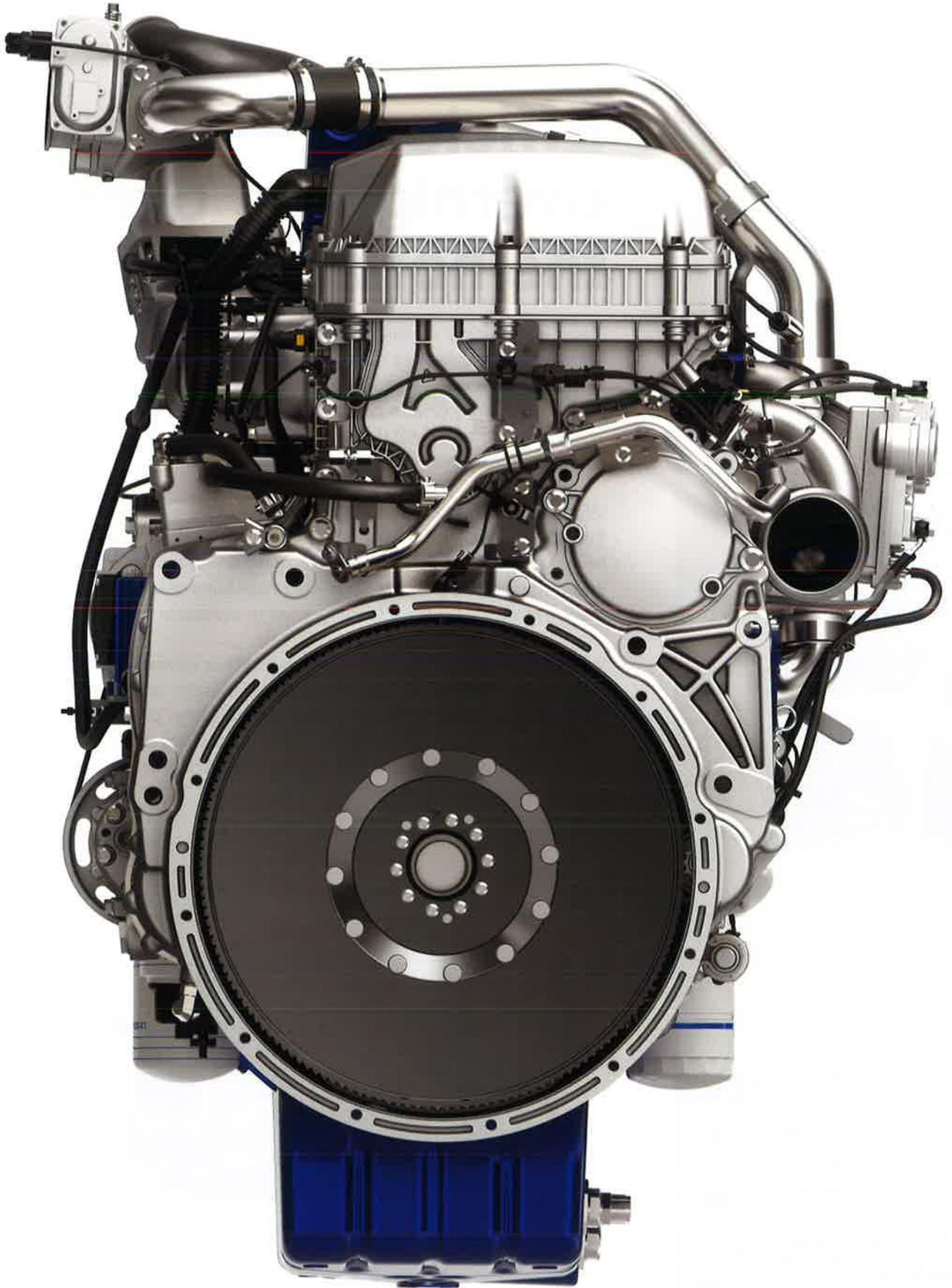
Because regional routes often stretch beyond day's end, Volvo VNR sleepers are optimized for efficiency in a wide variety of applications, providing hours of service compliance and the rest your drivers need for another day on the job. The VNR 400 and 640 deliver superb comfort and versatility, without the expense of a long-haul sleeper.

With a 42-inch flat-roof sleeper, the VNR 400 is well-suited for overnight, regional bulk-haul applications where overall height is a consideration. By packaging an efficient sleeper into a compact BBC, the VNR 400 maintains maximum maneuverability for busy loading sites or industrial deliveries.

When home-time stops are fewer and farther between on your regional routes, the 61-inch midroof sleeper on the VNR 640 provides extra room for catching up on paperwork or relaxing, and ample storage to keep your living area organized. And with a short BBC, the VNR still maintains excellent maneuverability.



ENGINES



Performance runs in the family.

Volvo's 2017 family of engines is built on a foundation of proven, developed architecture that leverages innovative hardware to maximize performance and efficiency. Energy that is normally lost is recovered with standard features, including lower friction pistons that optimize cylinder efficiency. A standard common-rail fuel injection system now gets the most power out of every drop of fuel. Our reliable variable geometry turbocharger compresses and moves the intake air while providing the correct back pressure to drive the Exhaust Gas Recirculation (EGR) process. And reliability isn't sacrificed for greater efficiency. All Volvo D11 and D13 engines carry a B50 life of 1.2 million miles.



Volvo D11 **325-425 hp, 1250-1550 lb-ft.**

The Volvo D11 is a fuel-efficient, lightweight engine designed to improve reliability and minimize cost of operation. The D11 delivers performance competitive with larger engines, beginning at 325 hp and up to an impressive 425 hp at 1,550 lb-ft. torque. Ratings for eXceptional Efficiency (XE) and Eco-Torque are available. It's also a lighter solution for maximizing fuel efficiency in bulk, less-than-truckload, and distribution applications.



Volvo D13 **375-500 hp, 1450-1850 lb-ft.**

The Volvo D13's efficiency & power improve operating costs, while meeting 2017 GHG emissions standards. Twelve power ratings are available, from 375 to 500 hp.

XE, Eco-Torque, and Dual-Torque ratings provide "dual-personality" torque output for customers who desire the fuel economy of lower torque with the strong performance of higher torque.

An automated manual transmission with digital intelligence.

Volvo has made the industry's most advanced automated manual transmission even better. The latest edition of the Volvo I-Shift transmission includes upgraded hardware and software, greater durability, and a new countershaft brake for improved performance and smoother, faster shifting. The electronic control unit can handle any load and any road, shifting perfectly every time. We've also improved clutch durability and torsional dampening in both our D11 and D13 models. So I-Shift not only keeps fuel costs down, it can also help slow driveline wear, reduce noise and vibration, extend transmission life, and lower maintenance costs.

Whether your route includes rolling hills or steep mountain terrain, Volvo's I-See predictive cruise employs self-learning knowledge of road topography to work with I-Shift, helping your drivers optimize the truck's speed and gear shifting.





Makes every driver more fuel-efficient.

Our newest I-Shift makes drivers more productive, using intelligent electronics to continuously monitor grade, speed, weight, and engine load, shifting when necessary or holding a gear—whichever saves more fuel. So regardless of experience or training, I-Shift helps every driver become more fuel-efficient.

Eases your mind and your left foot.

Once you drive an I-Shift, you'll never want to deal with a clutch pedal again. I-Shift lets you concentrate on the task at hand—delivering freight—not on what gear you're in. It's easy to use and always ready with the right gear, so missed shifts and sore knees are a thing of the past. With I-Shift, just sit back, get comfortable, and concentrate on your driving.



Brains, brawn, and value.

With a D11 or D13 engine, Volvo's torque rating for I-Shift goes up to 1,900 lb-ft., so it's compatible with any Volvo engine you choose for the VNR. I-Shift can also increase your truck's resale value. If your Volvo truck was purchased with a lower engine power rating, a simple software flash can uprate it to the highest power rating for its displacement—without having to replace the transmission.

Design changes save fuel and time.

I-Shift's redesigned transmission cooler optimizes fluid temperature in cold and warm climates, improving fuel efficiency. Connections throughout the transmission are also upgraded for faster maintenance during service stops.

FUEL EFFICIENCY





The path to efficiency is paved with innovation.

At Volvo, fuel efficiency is a vital part of our commitment to your business and ultimately to the planet we all share. That's why we're constantly challenging ourselves to find new and improved ways to make Volvo trucks the most fuel-efficient trucks on the road. Fuel efficiency is more than a single feature—it's a combination of customized solutions working together in perfect harmony to help you achieve the performance you want with the fuel savings you need. The result is fuel efficiency custom-built to cut your operating costs.

FUEL EFFICIENCY I-SEE

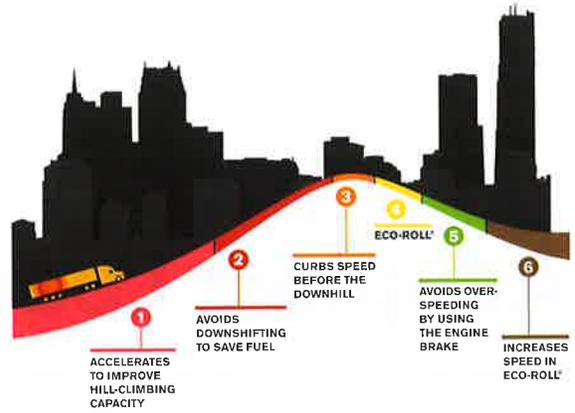
Now every road is worth remembering.

Combine the Volvo I-Shift transmission with an intelligent cruise control and you get I-See predictive cruise. It's a unique system that learns the topography of the road. Later on, it automatically uses its knowledge to save fuel when cruise control is engaged.



Uphill.

When I-See knows an uphill grade is coming, it increases speed in preparation. Once the climb begins, I-See uses its stored knowledge to avoid unnecessary downshifts toward the top. You approach the crest smoothly without wasting fuel in a lower gear at the top of the climb.



Downhill.

Just before the slope, I-See engages Eco-Roll®, which disengages the driveline and lets the truck roll for the optimum period before re-engaging the driveline. This saves energy and minimizes the need for braking. I-See also knows when the slope ends. So it can apply the engine brake gently in time, rather than abruptly at the end, or continue to gain momentum for an upcoming hill.

Learn more: USA: VNR.volvotrucks.us | CAN: VNR.volvotrucks.ca



Adaptive Loading.

A lift axle solution for 6x2 tractor configurations, Volvo's Adaptive Loading is designed to help trucks run at peak fuel efficiency and performance every mile of every haul. It senses weight differentiation and automatically lifts the axle to reduce friction and save fuel. Adaptive Loading also improves traction during lighter hauls, by transferring all weight to the rear axle of the vehicle. From a full load down to an empty trailer, this integrated and automated technology makes every driver a more efficient driver.





Common-rail fuel injection.

The unique design of Volvo's common-rail fuel system delivers multiple benefits. Finer control allows quicker, more accurate fuel injection for improved fuel efficiency; while a clean installation improves reliability and dramatically reduces engine noise.



Lower friction, wave piston design.

Improvements in surface finishing of the piston skirt area significantly reduce parasitic losses due to friction between the piston and the cylinder bore, benefiting both power output and fuel efficiency. Our patented wave design on the face of the piston increases cylinder efficiency by optimizing flame propagation toward the center of the cylinder for an ultra-clean burn.



One-box aftertreatment.

Volvo's "one-box" exhaust aftertreatment system offers smaller system packaging and reduces weight by 17 pounds compared to two-piece systems. The one-box configuration provides better thermal encasing of exhaust energy, and improves muffler efficiency. The use of Cu-Z (Copper Zeolite) catalyst coatings improves both low-temperature NO_x conversion, and long-term system robustness. Diesel Exhaust Fluid (DEF) allows the engine to use less EGR, and maintain higher oxygen levels for better combustion.



Powerful and precise engine braking.

The intelligent Volvo Engine Brake (VEB) is an enhanced engine braking system that gives drivers precise control over engine braking, and saves the truck's brakes for when they're needed most. The D11 and D13 engines use a Variable Geometry Turbocharger (VGT), which "supercharges" the VEB system, thanks to intelligent software. The result is phenomenal retarding horsepower at low RPM, where the engine spends most of its time and where braking is needed most.

Extreme fuel efficiency. Great drivability.

The award-winning eXceptional Efficiency (XE) packages push Volvo's commitment to fuel efficiency and reliability even further.

XE isn't a single fuel-saving feature; it's a completely customized solution that perfectly matches your vehicle and powertrain settings to the needs of your business. It all starts with choosing the right Volvo engine and matching it with I-Shift. Then we help you choose the optimum efficiency package based on your application. Together, these factors can help you save up to an additional 0.2 mpg or more. That can mean savings of as much as \$2,000 per year, per truck.

You tell us what you haul and where you haul it, and we'll tell you how XE can help your trucks get the job done while helping your business save big on fuel.

Our XE packages get smarter every year. A customized XE package is now available for liquid tanker, flatbed, and bulk haul applications.



XE Adaptive Gearing.

The first drivetrain in the industry to use rear suspension load to change the driveline based on whether the vehicle is loaded or unloaded. It gives you two transmissions in one: the performance of a direct drive when loaded and a downspeeding overdrive when light.



A wider sweet spot.

In some applications, XE packages help you save fuel by widening the sweet spot rpm range of the engine. Traditional drivelines achieve peak fuel efficiency between 1300-1500 rpm. But through Volvo's use of downspeeding, XE widens the range to 1050-1500 rpm. For every 100 rpm of downspeeding, fuel efficiency is improved by approximately 1.5%. Since the Volvo XE13 package downspeeds the engine by 200 rpm or more, you'll realize a total fuel efficiency increase of up to 3%.



Choose your torque.

The latest XE13 package is now available with your choice of different engine torque management software. XE Economy lowers engine torque in the starting gears, maximizing tire and driveline reliability while providing ample power and torque to get the job done at cruise speed. XE High Torque allows maximum torque in all gears, for those who prefer a faster transition to cruise speed.



DRIVER PRODUCTIVITY





Designed with the driver in mind.

The revolutionary Volvo VNR meets the needs of drivers operating in today's competitive marketplace. Improved seating, instruments, and controls are designed to put the driver comfortably and safely in command.

Because every driver is one of a kind.

No two drivers are exactly alike, so we set out to design a steering solution that let's drivers set the ideal height and angle, no matter who's behind the wheel. The result is Volvo's new Position Perfect™ steering wheel. With a three-way neck tilt, drivers have an almost endless array of choices for positioning the wheel exactly where they prefer it.





Like riding on air.

Volvo cab air suspensions and outboard mounted air springs, shocks, and stabilizing rod help the VNR series give drivers a smooth ride.



Comfort comes standard.

To meet the comfort, health, and safety needs of today's drivers—and tomorrow's—VNR seating has been refined based on extensive ergonomic research. From smallest to largest, drivers will benefit from optimized seat placement, increased range of adjustment, and more accessible controls. Our optional built-in refrigerator feature under the passenger seat provides cold storage—accessible from driver seat—for snacks and drinks.



Critical data, clearly displayed.

A new, more symmetrical instrument cluster combines well-organized traditional gauge faces with a high-resolution, five-inch color LCD screen. The programmable LCD screen can be configured to display a wide range of vehicle data alerts and system settings.



System control, close at hand.

To keep the driver's hands on the wheel, multiple systems can be controlled through steering wheel-mounted switches. The touch-friendly switch layout enables cruise control, entertainment and other settings to be changed without diverting attention from the road. The steering wheel and controls are always close at hand, thanks to a new three-motion tilt/telescope Position Perfect™ wheel.



Easy in and out.

Doors are 3+ feet wide, 4+ feet high, and open a full 70 degrees for ease of access, and ergonomically placed grab handles prove the safest and most secure way in and way out of the cab.

Choose your style.

The VNR's thoughtfully configured interior lets you choose from three different trim levels, all developed to stand up to the rigors of regional transport operations, while bringing premium automotive-style colors and design into the driver's working and living environment. And each of these trim levels is available with a selection of seven complementary seat options.

Learn more: USA: VNR.volvotrucks.us | CAN: VNR.volvotrucks.ca





Fleet

The Fleet level trim package features a Heron vinyl headliner with a dot matrix pattern and complementary vinyl walls. The door panels are accented with durable Wren plastic inserts.



Express

The Express level package upgrades the headliner and walls with a Heron cloth finish. Door panels are accented with Wren vinyl inserts.



Premier

The Premier level trim upgrades the walls to a Longspur cloth with metallic accent. The door panels are completed with our finest Longspur vinyl insert.





To improve your sleep, we improved our sleeper.

Volvo VNR sleepers offer premium touches that give drivers a comfortable place to relax and recharge when regional hauls require an overnight stop. With a 36-inch wide bed, both the 42-inch flat-roof VNR 400 sleeper and the 61-inch mid-roof VNR 640 sleeper provide ample room to rest.

A thick layer of insulation combined with some of the quietest running engines in the industry keep the cab comfortable and quiet whether you're down for an hour or for the night.



Don't get up.

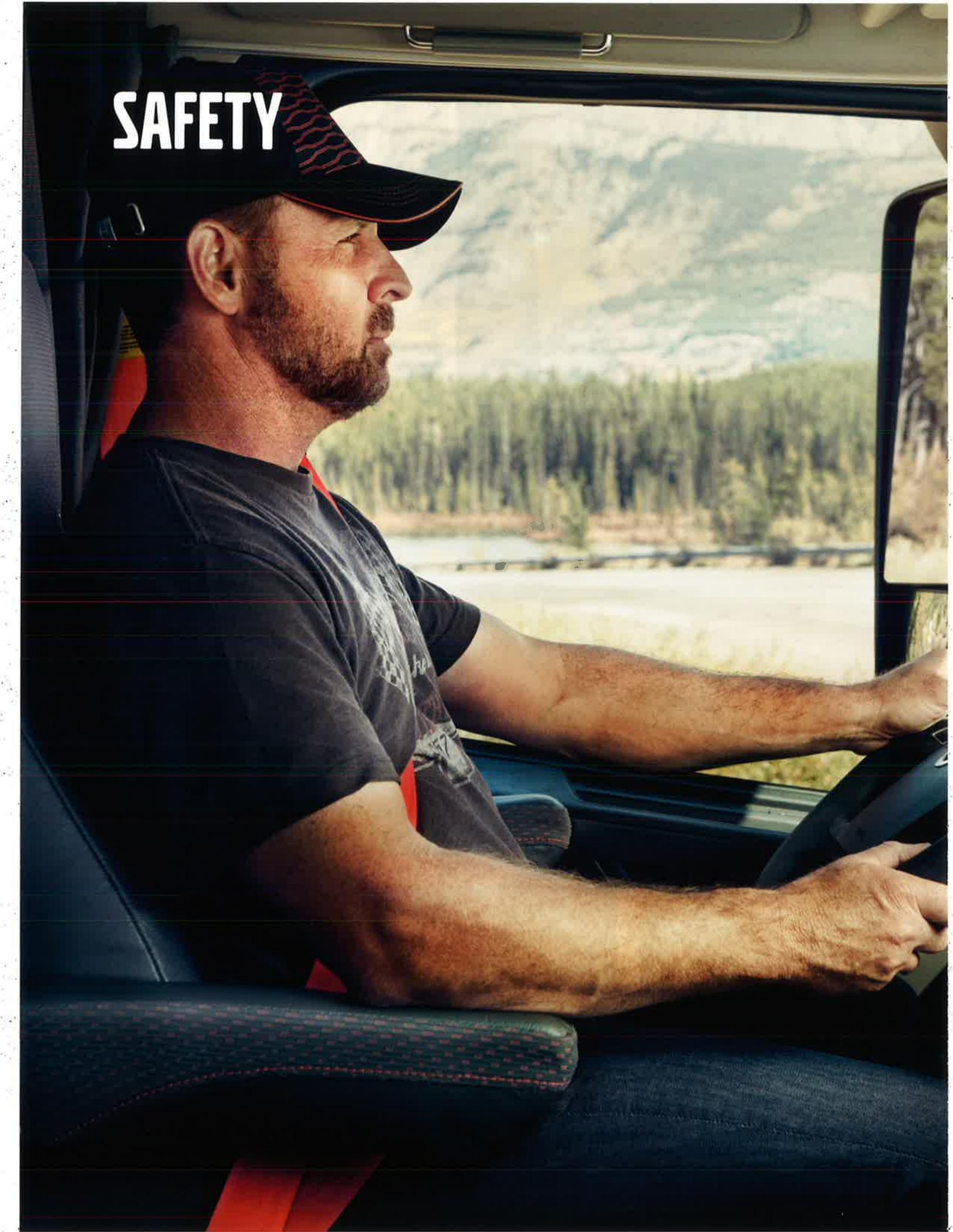
The sleeper control panel can be used to lock the doors, adjust bunk heating and cooling, or set audio levels. Need assistance? Just press the "panic" button to call attention to your vehicle.



Snacks and refreshments.

The VNR 640's cabinets can be configured to include a refrigerator or a microwave, so a hot meal or a cold drink can be available any time.

SAFETY





Volvo is safety.

Since 1927, safety has been the guiding principle for everything we build. We invented the three-point safety belt and were the first to introduce it as a standard feature. We also introduced the driver-side airbag and are still the only truck manufacturer to include it standard in every vehicle we make. Building on this legacy, Volvo has upgraded to standard LED lighting, and now offers an optional integrated side-impact airbag for rollover protection, as well as a forward collision warning for emergency braking situations.

Volvo's commitment to safety protects your business by putting the well-being of drivers—your most valuable asset—first. Intelligent design that maximizes comfort and visibility combined with advanced safety technology helps drivers avoid or minimize accidents, keeping them safe while reducing cargo loss, downtime, and accident-related insurance costs.

Highlighting safety.

To improve visibility and reduce maintenance, Volvo employs LED bulbs for all exterior lighting. All models feature LED high/low beam headlights, as well as LED turn, marker, and parking lamps. The premium headlamp also features a “signature” LED daytime running light.

Volvo Enhanced Stability Technology (VEST).

By continually monitoring operating parameters, VEST detects imminent loss of control, jackknife, or rollover events. The system automatically reduces engine torque and selectively applies braking to help keep the truck on course.



Volvo I-Shift transmission.

I-Shift takes away the physical and mental demands of changing gears, which reduces driver fatigue and provides more time for the driver to give full attention to surrounding traffic.



Adaptive Loading.

Adaptive Loading features a basic traction mode that stabilizes your trailer during loading and unloading, and an enhanced traction mode that automatically provides unmatched traction on steep grades or in hazardous conditions.



SAFETY COLLISION AVOIDANCE



Volvo Active Driver Assist.

Volvo Active Driver Assist is in constant operation while the vehicle is in motion, providing stationary object detection with stationary vehicle braking, which sends audible and visual warnings if a non-moving, metallic object is detected in front of the truck. Braking assist will be applied—at speeds greater than 15 mph—when the system recognizes the stationary object as a vehicle, independent of whether cruise control is engaged. The driver will receive a warning up to 3.5 seconds before an imminent impact with the stationary vehicle, and, if no action is taken by the driver, Volvo Active Driver Assist will automatically engage the brakes.



Lane departure warning.

This safety system uses a windshield-mounted camera to track road markings. If the truck begins to drift, audio and visual alerts warn the driver to get back into the correct lane.

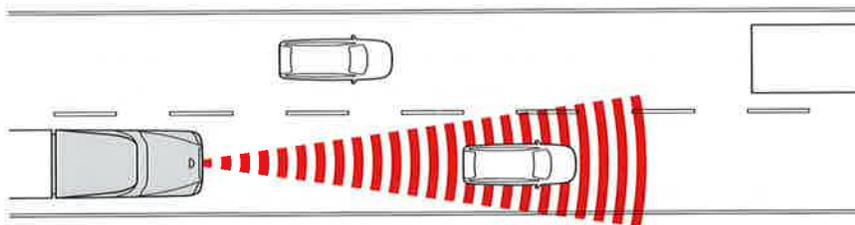


Data camera.

A windshield-mounted, wide-angle camera can be ordered as an option on the Volvo VNR. Relevant driver and vehicle performance data is collected by the camera when a trigger event occurs—such as excessive braking, lane changes without a turn signal, excessive curve speed, and extended loss of tracking. Video is captured for later download.

Forward collision warning.

Volvo now offers enhanced forward collision warning. A red light appears in the windshield to alert the driver if the vehicle sensors detect slower or stationary objects ahead and automatically apply emergency braking.



Leading-edge safety. Protecting your most important asset.



Volvo stays on the cutting edge of safety technology, ensuring that our trucks are the safest on the road. Built to exceed the demanding Swedish Cab Safety Test, our High-Strength Steel (HSS) cabs have the industry's highest strength-to-weight ratio, protecting the driver by absorbing as much crash energy as possible.

Volvo is the only Class 8 manufacturer to make a driver's side airbag standard equipment in every truck. For added rollover protection, Volvo offers the Rolltek® seat, combining seat belt pre-tensioners, automatic seat lowering to increase survival space, and an integral side airbag that deploys for head and neck protection.

Volvo combines advanced engineering with active and passive safety systems, exactly what you'd expect from the inventors of the three-point safety belt.



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UPTIME





Ready for whatever lies ahead.

You know better than anyone that every second of uptime equates to increased revenue, productivity, and opportunities. That's why you need a transport solutions partner that offers innovative ideas to keep trucks on the road and money in your pocket.

Volvo Trucks Uptime Services is a unique suite of products and services designed to give you unprecedented control over fleet operations. Maximize uptime, increase maintenance efficiency, and protect your trucks with protection plans customized to your needs. Nothing can slow your business down when you know the road ahead.

Remote Diagnostics.



Remote Diagnostics can help avoid unexpected downtime by monitoring your Volvo engine, I-Shift, and aftertreatment 24/7. Standard in every Volvo-powered truck, Remote Diagnostics offers a range of unique benefits, including enhanced proactive diagnostics, detailed analysis of critical fault codes for repair planning, immediate communication if actions are required, and streamlined service procedures. It's a powerful service that reduces average diagnostic times by 70% and average repair times by 22%.

With a dedicated team of professionals available around the clock at Volvo's world-class Uptime Center in Greensboro, NC, Volvo goes beyond diagnostic technology to deliver actionable solutions.



Updates on the fly.

Volvo's new Remote Programming feature means you'll no longer have to take your vehicle out of service to perform software and parameter updates. In the new VNR, drivers simply pull over, connect to the Volvo Uptime Center, and the upgrade is done over the air in a matter of minutes.



The Volvo Uptime Center.

Real people. Real solutions. Real fast. The Volvo Uptime Center offers around-the-clock assistance anywhere in the United States and Canada. Within minutes, your driver is connected to a member of Volvo Action Service, a team of highly trained uptime experts who can quickly manage service, schedule repairs, and tackle any other issue that happens on the road.



ASIST service management platform.

Everything you need, all in one place. ASIST is a simple web-based tool that lets you monitor vehicle status, receive electronic estimates, approve repairs, issue purchase orders, and communicate directly with your dealer—regardless of your truck's location.



Premium Maintenance Plan.

For best results, plan ahead. Preventative maintenance plans improve vehicle uptime, increase productivity, and provide peace of mind by making sure all required maintenance is done efficiently and done right. Choose from a full menu of services and get access to Genuine Volvo Parts, warranty adjustments, service programs, and performance updates at pre-planned maintenance intervals.



Volvo Protection Plans.

The road can be unpredictable. Always know you're covered. Take the worry and stress out of unforeseen repairs and effectively manage costs over the life of your truck with an extended warranty through a Volvo Protection Plan. We offer a variety of plans covering the engine or chassis that can be customized to your needs—you choose the length and extent of coverage that best suits your specific application.

No matter where, we're there to support your business.

Our world-class dealer network means your trucks are never far from the quality care and maintenance you expect when you buy a Volvo truck. With more than 400 dealers and thousands of service locations across North America, Volvo Trucks Uptime Services help you through every step of a service event, and make sure your trucks stay where they belong—on the road.

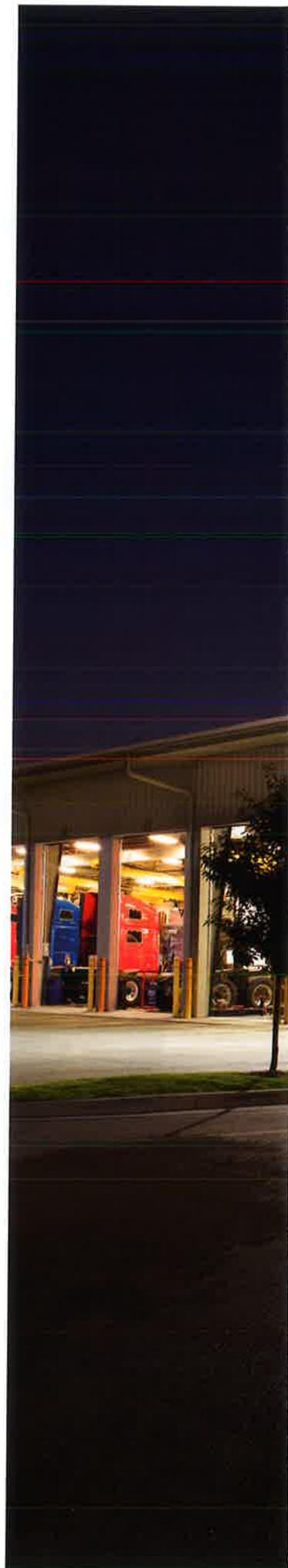
Repairs are done fast and accurately by highly trained Volvo specialists. Our parts-expediting team locates the parts you need quickly—making sure they are there when you need them.

Your time means money, that's why Volvo Trucks Uptime Services saves you both.



Volvo Certified Uptime Centers.

Our Certified Uptime Center dealerships can expedite critical repairs. With the truck's remote diagnostic data already in hand, a technician can immediately diagnose the truck. If the repairs require less than four hours of service time, the truck is fast-tracked, with the goal of having it back on the road in 24 hours.





VOLVO

SERVICE

Choose your Volvo VNR.

Every business needs a truck tailored to its specific needs. That's why the Volvo VNR provides endless possibilities. With a wide range of cab sizes, powertrain choices, and interior trim levels, you'll find all the options you need. Your dealer will happily guide you in finding the perfect truck for your operation.

STEP 1:

Choose your cab.

Specifications and measurements for the daycab, flat-roof, and mid-roof sleepers.

STEP 2:

Choose your powertrain.

Two different engine and transmission choices with a wide variety of power ratings and gear ratios.

STEP 3:

Choose your interior.

A trio of trim-level options that make sure drivers are at home in the cab.



STEP 1:

☐ VNR 300

☐ VNR 400

☐ VNR 640

	☐ VNR 300	☐ VNR 400	☐ VNR 640
Description	Daycab designed to provide outstanding performance for urban deliveries.	Flat-roof sleeper designed for regional hauls requiring overnight rest to maintain hours of service compliance.	Spacious midroof sleeper designed for regional hauls requiring multiple overnight stays.
Applications	Short Haul/ Regional Haul	Short Haul/ Regional Haul	Short Haul/ Regional Haul
Cab Type	Daycab	42" Sleeper	61" Sleeper
Interior Height	61"	61.5"	76.5"
Interior Width	83.5" door to door	83.5" door to door with 75"x36" mattress	83.5" door to door with 75"x36" mattress
Wheelbase per axle configuration	138"-217" 4x2 150"-225" 6x4	173"-217" 4x2 174"-225" 6x4	193"-217" 4x2 191"-225" 6x4
Wheelbase: Alternate Configurations	146"-217" 6x2 Tag 195"-217" 6x2 Adaptive Loading	165"-217" 6x2 Tag 217"-232" 6x2 Adaptive Loading	179"-215" 6x2 Tag 224"-236" 6x2 Adaptive Loading

SPECIFICATIONS POWERTRAIN



STEP 2:

	<input type="checkbox"/> VOLVO D11	<input type="checkbox"/> VOLVO D13
Ratings:	325-425 hp / 1250-1550 lb-ft.	375-500 hp / 1450-1850 lb-ft.
Base Engine Configuration	4 cycle / Inline Six	4 cycle / Inline Six
Emissions	SCR Selective Catalytic Reduction	SCR Selective Catalytic Reduction
Aspiration	Sliding Nozzle Variable Geometry Turbocharger	Sliding Nozzle Variable Geometry Turbocharger
Cam / Valve Configuration	SOHC / 4 Valves per Cylinder	SOHC / 4 Valves per Cylinder
Cylinder Head	One Piece Rigid Deck Cylinder Head	One Piece Rigid Deck Cylinder Head
Injection System	Common-Rail	Common-Rail
Maximum Fuel Injection Pressure, psi (bar)	35,000 (2,400)	35,000 (2,400)
Rating Uprateability	Software Only, Throughout Range	Software Only, Throughout Range
Displacement, cu. in. (L)	661 (10.8)	780 (12.8)
Compression Ratio	17:1	17:1
Bore & Stroke, in. (mm)	4.84 x 5.98 (123 x 152)	5.16 x 6.22 (131 x 158)
Cylinder Spacing, in. (mm)	6.06 (154)	6.61 (168)
Full Dress Dry Weight, lb. (kg)	2259 (1025)	2605 (1182)
Fuel and Lubrication:		
Fuel Specification	Ultra Low Sulfur Diesel, 15 ppm	Ultra Low Sulfur Diesel, 15 ppm
Fuel Filters	Primary plus Secondary	Primary plus Secondary
Total Lube Oil Capacity, qts. (L)	38 (36)	38 (36)
Oil Filtration	Two Full Flow, One Bypass	Two Full Flow, One Bypass
Oil Drain Interval, Normal Service, miles (km)	55,000 (88,514)*	55,000 (88,514)*
Oil Specification	Volvo VDS-4.5, SAE 10W-30	Volvo VDS-4.5, SAE 10W-30
FLOCS Oil Drain Kit	Optional	Optional
Engine Equipment:		
Air Compressor, CFM	Two Cylinder, 31.8	Two Cylinder, 31.8
Retarder	Volvo Engine Brake (VEB)	Volvo Engine Brake (VEB)
Engine Brake Rating at 2200 rpm	420 hp @ 2200 rpm	500 hp @ 2200 rpm
Engine Brake Rating at 1500 rpm	266 hp @ 1500 rpm	350 hp @ 1500 rpm
Engine Brake Weight, lbs. (kg)	25 (12)	25 (12)
PTO Port for Live Rear PTO Pump or Shaft	Optional	Optional
Preheater, Electrical	Optional	Optional

* For applications at 6mpg or greater.



VOLVO I-SHIFT
I-SHIFT FOR SEVERE DUTY
I-SHIFT WITH CRAWLER GEARS

EATON FULLER 10, 13, 18

**ALLISON 5-6 SPEED
AUTOMATIC**

Description	Automated Manual Transmission	Manual	Automatic
Dry Weight w/ clutch and oil cooler (lbs.)	720 or 805	541 to 716*	535 to 831
Max Torque Capacity (ft-lb) / NM()	1900 (2600)	1850 (2508)	1650 (2237)
Transmission Housing Body	Aluminum	Aluminum or Steel	Aluminum
Max Highway Weight (lbs)	160,000**	140,000**	Manufacturer approval required
Downhill economy mode	I-See	N/A	No
Software based upgrades available	Yes	No	Yes
Gear Ratios	14.94 to 41.08	14.80 to 19.72	N/A***
Forward Gears	12, 13 or 14	10, 13 or 18	5 or 6
Reverse Gears	2 to 6	2 to 4	1

* Without clutch housing and end yoke.

** Application approval required for higher GCW.

*** Torque converter.

SPECIFICATIONS INTERIOR



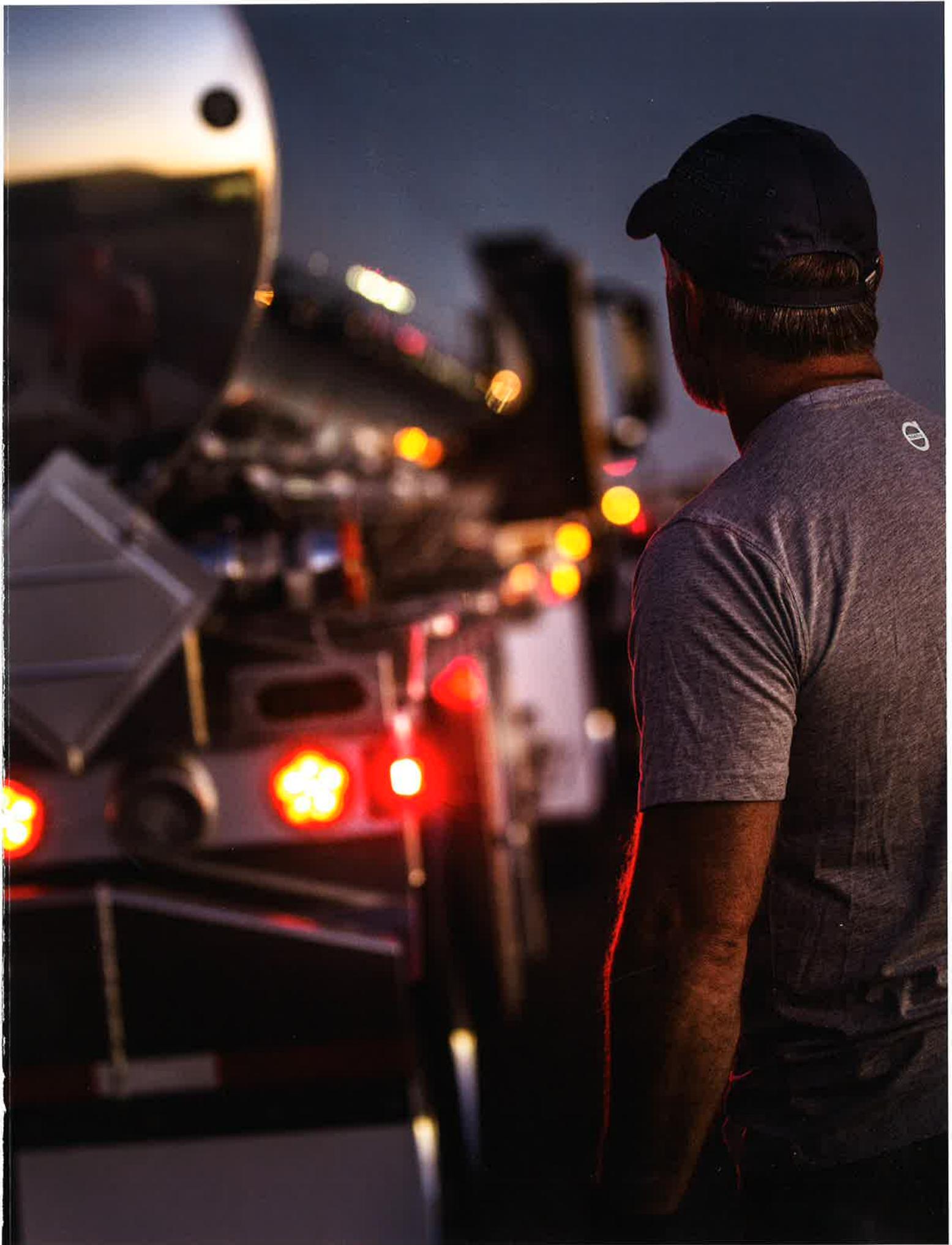
STEP 3:

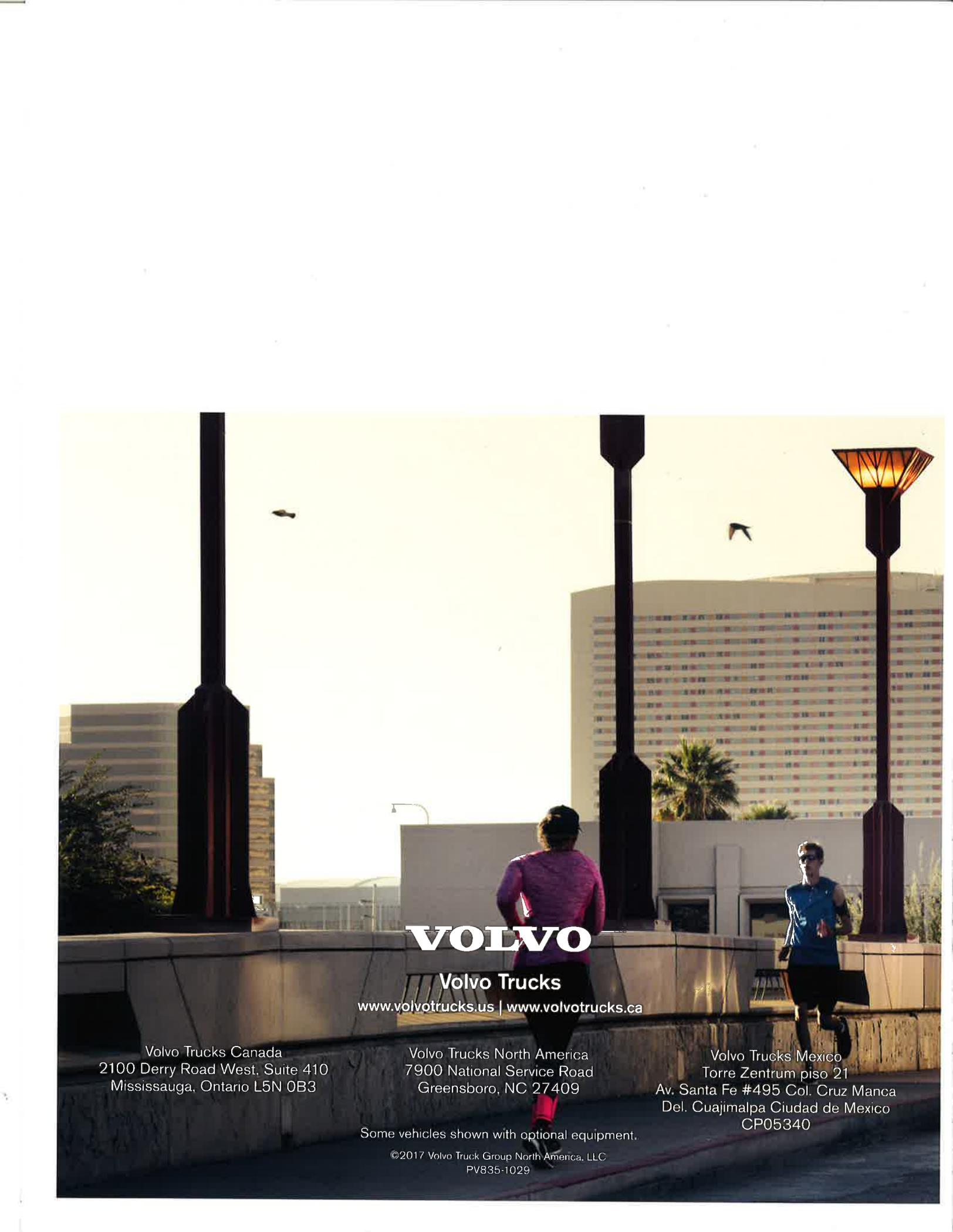
FLEET TRIM LEVEL

EXPRESS TRIM LEVEL

PREMIER TRIM LEVEL

	<input type="checkbox"/> FLEET TRIM LEVEL	<input type="checkbox"/> EXPRESS TRIM LEVEL	<input type="checkbox"/> PREMIER TRIM LEVEL
Description	Our Fleet Trim Level is designed for maximum durability to withstand the wear associated with high-use applications. The Fleet Trim level is available in all VNR models.	Express Trim Level features a Heron cloth finish throughout the cab, with touches of Wren vinyl for a more refined interior. The Express Trim Level is available exclusively in VNR 300 and 400 models.	The Premier Trim Level offers luxurious options in every corner, including Wood Grain trim for the dash and cabinetry. The Premier Trim Level is available exclusively in VNR 300 and 640 models.
Headliner	Heron Vinyl with Dot Matrix	Heron Cloth	Heron Cloth
Back Wall	Heron Vinyl	Heron Cloth	Longspur Cloth with Metallic Accent
Door Insert	Wren Molded Plastic	Wren Vinyl	Longspur Vinyl
Instrument Panel Decorative Trim	Hex Grain	Hex Grain	Wood Grain
Cabinet Trim	Hex Grain	Hex Grain	Wood Grain
Seat Options	Seven	Seven	Seven
Floor Insert Options	Two	Two	Two





VOLVO

Volvo Trucks

www.volvotrucks.us | www.volvotrucks.ca

Volvo Trucks Canada
2100 Derry Road West, Suite 410
Mississauga, Ontario L5N 0B3

Volvo Trucks North America
7900 National Service Road
Greensboro, NC 27409

Volvo Trucks Mexico
Torre Zentrum piso 21
Av. Santa Fe #495 Col. Cruz Manca
Del. Cuajimalpa Ciudad de Mexico
CP05340

Some vehicles shown with optional equipment.

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PV835-1029

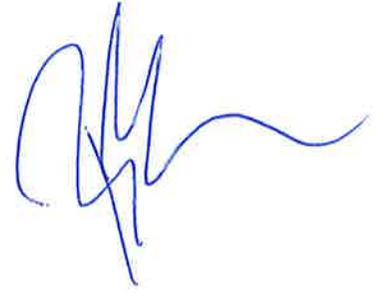
ADDENDUM ONE QUESTIONS and ANSWERS

Date: 06/02/20

To: All Bidders

From: Christie Kelly, Buyer
AS Materiel State Purchasing Bureau (SPB)

RE: Addendum for Invitation to Bid (ITB) Number 6307 OF, Truck Tractor Chassis with Tandem Rear Axle, to be opened June 9, 2020 at 2:00 P.M Central Time



1. Following are the questions submitted and answers provided for the above-mentioned Invitation to Bid. The questions and answers are to be considered as part of the Invitation to Bid. It is the Bidder's responsibility to check the SPB website for all Addenda or Amendments.

Question Number	Question	State Response
1	Do you have specs that you are requiring for the wet kit? There are a lot of variables that go into them.	<p>Pump shall have a minimum of 22 GPM/2,000 PSI.</p> <p>Hoses must be of adequate length to reach the trailer with couplers.</p> <p>The wet kit must have the ability to use with sliding axle trailers.</p>
2	do you have any specs on the half fenders?	No. All units have half fenders and may vary from model to model.
3	Do you anticipate extending the bid due date?	<p>No, not at this time.</p> <p>Per Section I. Procurement Procedure, Subsection H. Submission of Bids: "It is the responsibility of the Bidder to check the website for all information relevant to this ITB to include Addenda and/or Amendments issued prior to the Opening Date".</p> <p>Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html</p>
4	What additional details are you willing to provide, if any, beyond what is stated in bid documents concerning how you will identify the winning bid?	<p>No additional details to be provided.</p> <p>Please see Section I Procurement Procedure, Subsection R-Award, for the process of identifying the winning bid(s).</p> <p>Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html</p>
5	<p>Was this bid posted to the nationwide free bid notification website at</p> <p>https://gcc02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.mygovwatch.com%2F&data=02%7C01%7Cchristina.kelly%40nebraska.gov%7Cb1f0398ad04c4ab2a03108d80252d3b5%7C043207dfe6894bf6902001038f11f0b1%7C0%7C0%7C637261902041601175&data=cTA%2F7Sc4LKH2w5zSSPv%2FkDBEsxRcNICiSNkJwdVXSxw%3D&reserved=0?</p>	<p>The State of Nebraska only uses the State Purchasing Bureau (SPB) website to post State of Nebraska Bid Opportunities.</p> <p>Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html</p>

6	Other than your own website, where was this bid posted?	The State of Nebraska only uses the State Purchasing Bureau (SPB) website to post State of Nebraska Bid Opportunities. Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html
7	when and how answers will be provided	Per Section I. Procurement Procedure, Subsection C. Schedule of Events: Number 3 and Subsection D. Written Questions and Answers: Written answers will be posted, per the Schedule of Events. Website address is as follows: http://das.nebraska.gov/materiel/purchasing.html
8	Line 4 - PTO driven hydraulic wet kit / How many lines will you require?	One (1) Pressure Line and one (1) Return Line are required.
9	Line 5 – Half Fenders / Are poly fenders the preferred and acceptable?	Poly fenders are acceptable.
10	Line 10 – Do you want fenders on the pusher axle? If yes are poly acceptable?	Yes, fenders shall be on the pusher axle. Poly fenders are acceptable.
11	N/2 – Tires / Is it acceptable to have mixed brands due to the front tires being 12R22.5 and the rear tires being 11R22.5?	Yes, tires may be a mix of the specified brands stated in Section VI-Technical Specifications, Subsection N-Tires, Number 2.
12	O/2/a – Seats / the seat we use is manufactured by National, is it acceptable?	Per Section VI-Technical Specifications, Subsection O-Cab, Number 2: Seats shall be National Brand Model 2000 series or OEM Equivalent. If bidding an Equivalent specify the Brand Name and Model being bid in Subsection O, Number 2, a.
13	F/9 – Inter axle wheel lock. Do you want this on the front, the rear or both axles?	Inter axle wheel locks shall be on both the front and rear axles.

2. The Language in Section VI, Subsection I, Number 2 is hereby superseded and replaced by:

			2. National Brand Model 2000 series or OEM Equivalent Seats:
			a. Equivalent Brand/Model bid must be approved by NDOT Specify Brand/Model Being Bid: _____

This Addendum will become part of the ITB and should be acknowledged with the Invitation to Bid.



VNR64T300



Prepared For:

CONNIE HEINRICHS

STATE OF NEBRASKA - STATE
PURCHASING BUREAU

402-471-2401

n/a

Mon, Jun 08, 2020 11:01:33 AM EST

Prepared By:

BRIAN ASKEW

BRIAN.ASKEW@NATTINC.COM

VOLVO TRUCKS OF OMAHA, INC.



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Vehicle Spec.....	3
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Vehicle Spec

BASE MODEL		Description	Front Weight	Rear Weight	Price
004371	BASE MODEL	VNR64T300	7,437	4,248	152,593

MODEL PACKAGE

S 012371	MARKETING MODEL	VNR64T300	0	0	0
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VEHICLE ADAPTATION

O 263005	VEHICLE APPLICATION	TRACTOR / FLAT BED TRAILER	0	0	0
O 898003	VEHICLE WARRANTY QUALIFICATION	STANDARD HEAVY DUTY WARRANTY QUALIFIED	0	0	0
O 259003	VEHICLE VOCATION	CONSTRUCTION SERVICE	0	0	0
O 938001	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0	0

PASSIVE AND ACTIVE SAFETY

S 2CXD1X	CAB TYPE	HIGH-STRENGTH STEEL (HSS) DAY CAB	0	0	0
O DUXZ1X	SRS AIR BAG	NO AIR BAG PROVIDED	-2	-1	-129
O 43X50X	AUXILIARY DOWN VIEW MIRROR	DELETE DOWN VIEW MIRROR OVER PASSENGER DOOR	-1	0	-7

ENGINE

O 1018F8	ENGINE PACKAGE	VOLVO D13 425HP 2100RPM 1550 LBFT - EPA'21 EMISSION LEVEL	346	0	876
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ENGINE EQUIPMENT

O 208021	FAN CLUTCH PACKAGE	KYSOR ON / OFF FAN CLUTCH	9	-1	-18
O 810113	BATTERY PACKAGE	3 VOLVO 760 CCA MAINTENANCE FREE 12V BATTERIES, 2280 CCA	36	12	76
O NQXB1X	BATTERY BOX CONFIGURATION	BATTERY BOX - 3 CAPACITY	0	0	0
O NFXZ1X	BATTERY DISCONNECT SWITCH	NO BATTERY DISCONNECT SWITCH PROVIDED	-2	0	-16
O LLXD1X	EMERGENCY START SYSTEM	EMERGENCY START STUDS, HEX JUMP STUDS ON ALL BATTERY POST	1	0	7
O JVXBBX	PRIMARY FUEL FILTER	RACOR 6901, FUEL FILTER, WATER SEPARATOR	0	0	58
O 5NXA1X	ENGINE BLOCK HEATER	PHILLIPS 120V 1500W LEFT HAND RECEPTACLE BLOCK HEATER	5	0	81
U 999J2E	ENGINE BRAKE ACTIVATION	DELETE ENGINE BRAKE - NOT REQUIRED FOR STATE BID	0	0	0



O NDXA1X	ENGINE STARTING AID	ENGINE MOUNTED ELECTRIC PRE-HEATER	6	0	191
O QHXA1X	ENGINE OIL PAN	COMPOSITE OIL PAN (STANDARD OIL CHANGE INTERVALS)	0	0	0

TRANSMISSION

O 270733	TRANSMISSION PACKAGE	EATON 10 SPEED FULLER FRO-15210C	9	3	-1,556
O RVXA1X	GEAR SHIFT CONTROL	FIXED GEAR SHIFT LEVER	0	0	0
O T2XC3X	TRANSMISSION COOLER	WATER TO OIL TRANS COOLER IN RADIATOR	0	0	0
O 250090	CLUTCH	EATON 15.5" 2 PLATE CERAMETALLIC ADVANTAGE SELF-ADJUST 9-SPRING, 4 PAD - 1650 LB-FT CAPACITY	0	0	0
O RBXA1X	CLUTCH FEATURES	LUBE LINE BETWEEN RELEASE BEARING AND BELL HOUSING	0	0	0

FRONT AXLE

O 370403	FRONT AXLE PACKAGE	VOLVO VF14 14,600 LB FRONT SPRINGS	19	0	416
O 782005	FRONT BRAKE PACKAGE	FRONT BRAKE MERITOR, Q+ CAST, STANDARD LUBE	46	0	-413
O U5XB1X	FRONT BRAKE DIMENSION	16.5X6 FRONT BRAKE SIZE	104	0	64
O U3XA1X	BRAKE TYPE, FRONT AXLE	CAST IRON FRONT BRAKE DRUM OUTBOARD MOUNTED	0	0	0
O LQXAVX	FRONT BRAKE LINING MATERIAL	BRAKE LINING MATERIAL FRONT, MERITOR MA 1501	0	0	0
O UDXA1X	FRONT AXLE BRAKE DUST SHIELD	FRONT BRAKE DUST SHIELDS	6	0	72
O 0KXI5X	HUBS, FRONT AXLE	IRON PRESET PLUS FRONT AXLE HUB WITH INTEGRATED SPINDLE NUT	0	0	0

REAR AXLE

O 330684	REAR AXLE PACKAGE	MERITOR MT-40-14X4D HYPOID (HEAVY DUTY HOUSING) 40,000 LB CAPACITY	0	30	76
O TAXE5X	REAR AXLE RATIO	3.55 REAR AXLE RATIO	0	0	0
O TUXA1X	DIFFERENTIAL LOCK	FULL LOCKING WHEEL DIFFERENTIAL	0	63	881
A 350422	REAR SUSPENSION PACKAGE	40,000 LB VOLVO PRIMAAX EX AIR SUSPENSION 54" SPACING	0	522	5,173
O 783006	REAR BRAKE PACKAGE	REAR BRAKES MERITOR Q+, CAST, STANDARD LUBE	0	18	174
O UEXA1X	DRIVE AXLE BRAKE DUST SHIELD	REAR BRAKE DUST SHIELDS	0	12	72
O 0LXI5X	HUBS, DRIVE AXLE	IRON PRESET PLUS DRIVE AXLE HUB WITH INTEGRATED SPINDLE NUT	0	0	0
O 7WXB1X	REAR AXLE LUBRICANT	SYNTHETIC REAR AXLE LUBRICANT (APPROVED FOR MERITOR EXTENDED COMPONENT WARRANTY)	0	0	111



O 781056	PARKING BRAKE CHAMBER PACKAGE	FOUR CAM TYPE HALDEX	0	27	95
O 784009	FRONT AND REAR SLACK ADJUSTERS	HALDEX BRAKE ADJUSTER FRONT AND REAR	0	0	0
O 05BD1X	FRONT BRAKE CHAMBER SIZE	FRONT BRAKE CHAMBER 24 SQUARE INCHES (SERVICE)	0	0	0

CHASSIS

O 3XBEAX	DRIVER SIDE FRONT CHASSIS CONFIGURATION	LEFT HAND BATTERY BOX - 3 CAPACITY, DEF TANK MOUNTED BEHIND BATTERY BOX (VNL / VNR)	0	0	0
O 400200	WHEELBASE	200" WHEELBASE	317	316	557
O 402057	OVERHANG	57" OVERHANG	0	180	0
O KBXB2X	FUEL TANK SHAPE, LIQUID	26" DIA D-SHAPED FUEL TANK	0	0	0
O J8XEWX	LIQUID FUEL TNK, LEFTHAND SIDE	100 GALLON LEFT HAND FUEL TANK	10	11	192
X J9XATX	LIQUID FUEL TNK, RIGHTHAND SIDE	50 GALLON RIGHT HAND FUEL TANK	46	46	684
A 8HAC1X	AIR TANK ARRANGEMENT	IN FRAME AIR TANKS	0	0	0
O 403005	FRAME RAIL PACKAGE	11.81"X3.54"X.31" STRAIGHT STEEL RAILS	0	0	283
O 4DXA5X	FRONT BUMPER	STEEL AERO BUMPER W/END CAPS	-5	0	-7
O 68XAAX	REAR FENDER	RUBBER QUARTER FENDER WITHOUT LOGO	12	22	92
O 67XC1X	MUDFLAP TYPE, REAR AXLE	LDPE REAR MUDFLAP WITHOUT LOGO	-6	24	57
O 69XB7X	MUDFLAP HANGERS, REAR AXLE	SPRING MOUNTED B-33 PAINTED 45 DEG CUTOFF	-4	19	5
O IDXB1X	MUDFLAP HANGER LOCATION (CA)	BASIC MUDFLAP BRACKET LOCATION	0	0	0
O 8QAC1X	REAR FENDER HEIGHT (CA)	BASIC REAR FENDER HEIGHT	0	0	0
O 4EXK1X	FRONT TOWING DEVICE	PREP KIT FOR TWO FRONT TOWING DEVICES	-8	-8	-12
O U7CFGX	LH FUEL TANK FACE LOCATION	LH FUEL TANK FRONT FACE @ XM=4575	0	0	0
O U8CCPX	RH FUEL TANK FACE LOCATION	RH FUEL TANK FRONT FACE @ XM=4965	0	0	0

TRANSPORT ADAPTATION

O 7KXA3X	BACK OF CAB (BOC) ACCESS PACKAGE	LEFT HAND BACK OF CAB ACCESS WITH 20" LOW PROFILE DECK	12	17	209
O 490258	FIFTH WHEEL PACKAGE	SAF HOLLAND FW35 AIR SLIDE RIGHT HAND RELEASE FIFTH WHEEL	38	388	361
O E5BATX	GROUND TO 5TH WHEEL TOP HGT.	48.5" FIFTH WHEEL HEIGHT	0	0	0



O 6JXB1X	SLIDING FIFTH WHEEL TRAVEL	24.0 INCHES OF FIFTH WHEEL TRAVEL	3	31	106
O 6BX5PX	FIFTH WHEEL REARMOST POSITION	25" BEHIND FORWARD DRIVE AXLE CENTER (-635MM)	0	0	0
O 51XF1X	HOSEHANGERS	TRLR BRK HOSEHANGER STANCHION MOUNT	0	0	0
O WHXB1X	TRAILER BRAKE CONNECTION POSITION	FRAME MOUNTED TRAILER BRAKE CONNECTION	0	0	0
O 52XB1X	TRAILER ELECTRICAL CABLE	DETACHABLE TRAILER CABLE	1	0	41

CAB EXTERIOR

O LZXC2X	AIR HORN	DUAL ROOF MOUNTED BRIGHT AIR HORNS, DUAL TONE	4	0	188
O 3FX58X	EXTERIOR SIDE VIEW MIRRORS	CHROME AERODYNAMIC MIRRORS	0	0	283
O 4NXZ1X	EXTERIOR SUNVISOR	NO EXTERIOR SUN VISOR PROVIDED	-13	0	-50

CAB INTERIOR

O 520102	DRIVER SEAT	X2 RAVEN CLOTH WITH METALLIC ACCENT	0	0	17
O 1GAF1X	SEAT MFG. & SERIES, PASSENGER	NATIONAL PASSENGER SEAT	0	0	0
O I6DA1X	SEAT PROFILE, PASSENGER	STANDARD WIDTH PASSENGER SEAT	0	0	0
O 521102	PASSENGER SEAT	X2 RAVEN CLOTH WITH METALLIC ACCENT	0	0	12
O 34XK1X	PASSENGER SEAT SUPPORT	PASSENGER SEAT - AIR SUSPENDED	18	0	210
O I8DA1X	SEAT COMFORT, PASSENGER	PASSENGER SEAT - ONE AIR ADJUSTABLE LUMBAR CHAMBER	18	0	210
O 3PXC5X	SEAT ARMREST	INBOARD / OUTBOARD DRIVER AND PASSENGER SEAT ARMREST	12	0	291
O 0HAB1X	SEAT SUPPORT, DUST COVER	SEAT BASE DUST COVER, BOTH SIDES	0	0	0
O OXXA1X	SAFETY BELT PASSENGER SEAT	SAFETY BELT PASSENGER SEAT BLAC	0	0	0
O 571020	GAUGE PACKAGE	EIGHT GAUGE INSTRUMENT CLUSTER	0	0	0
O PVXC2X	AIR RESTRICTION INDICATOR	GRADUATED ARI ON FILTER WITH GRAPHIC SYMBOL IN DRIVER MESSAGE CENTER	1	0	10

AUDIO SYSTEM

O 590012	RADIO PACKAGE	AM / FM / CD / MP3 RADIO	0	0	-26
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TIRES AND WHEELS FRONT



0 093778	TIRE PACKAGE FRONT	12R22.5H BRIDGESTONE R268 ECOPIA (14780 LBS. GAWR) REGIONAL / URBAN USAGE	564	0	645
0 4WCE1X	TIRE CLASSIFICATION FRONT (CA)	GHG FRONT TIRE CLASSIFICATION, BASIC	0	0	0
0 6VXA1X	SPARE WHEEL & TIRE	ONE SPARE WHEEL WITH TIRE MOUNTED (SAME AS FRONT)	0	0	647
0 907003	FRONT WHEEL AND TIRE QUANTITY	THREE FRONT WHEELS AND TIRES	0	0	0

TIRES AND WHEELS REAR

0 094751	TIRE PACKAGE REAR	11R22.5G BRIDGESTONE M760 ECOPIA (23360 LBS. GAWR) LONG / REGIONAL HAUL	0	1,080	736
0 4XCE1X	TIRE CLASSIFICATION REAR (CA)	GHG REAR TIRE CLASSIFICATION, BASIC	0	0	0

PAINT

0 9804P3	FIRST TRUCK COLOR	PREM SAFETY YELLOW; 754338	0	0	333
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BASE WARRANTY AND PURCHASED COVERAGES

0 899302	WARRANTY TYPE	HEAVY_DUTY_STANDARD_BASE_COVERAGE 12_MONTHS / 100,000_MILES	0	0	0
0 880009	TRANSMISSION COVERAGE	36 MTHS: EATON FULLER STANDARD DUTY WARRANTY FOR ALL MANUAL AND AUTOMATED TRANSMISSIONS, ANY TORQUES	0	0	0

SUB TOTALS

BASE WEIGHT/PRICE	7,437	4,248	152,593
FACTORY OPTION WEIGHT/PRICE	2,166	3,618	12,826
DEALER OPTION WEIGHT/PRICE	0	0	0

TOTALS

TOTAL PRICE(\$)			165,419
TOTAL WEIGHT(LB)	9,603	7,866	17,469



1018F8 Volvo D13 425 HP 2100RPM 1550 lb-ft – EPA'21 Emission Level

Affects: VNL, VNR, VHD, VAH

Related: Engine Equipment
Transmission (270)
Rear Axle (330)

Updated: October 23, 2019

Engine Sales Sheet

The new Volvo EPA'21 engines offer enhanced fuel efficiency, performance and reliability. The Volvo D13 is an in-line six cylinder design with a displacement of 12.8 liters and ratings of 405 – 500 HP, with 1450 to 1850 lb-ft of torque. This puts it right in the sweet spot for distribution, LTL, truckload, linehaul freight, vocational applications and auto haulers.

New Design Features

- Proven common-rail fuel system
- New wave pistons
- Assembled camshaft
- Two-speed coolant pump on XE models
- 455 horsepower; torque increased to 1,850 lb.-ft.
- 71 lbs. lighter (50lbs removed from block and 21 from camshaft)



Common Rail Fuel System



- Increased reliability (50% less load on pumping injector cups) (75% less on non-pumping).
- Less clamping load on injectors results in a quieter engine which reduces driver stress.
- Less stress and friction allows for greater fuel efficiency and use of an assembled camshaft to save weight.

Wave Piston



- New wave piston increases compression ratio from 16:1 to 17:1; increasing efficiency.
- Improved flame propagation increases cylinder efficiency while at the same time reducing soot.
- 90% reduction in soot boosts reliability of EGR and Exhaust Aftertreatment System.

VOLVO TRUCKS

PRODUCT INFORMATION



1018F8 **Volvo D13 425 HP 2100RPM 1550 lb-ft – EPA'21 Emission Level**
Updated: October 23, 2019

New One Box Exhaust System



- Lighter weight (17 lbs. lighter)
- Takes up less frame rail space (up to 1 foot)
- Easy filter replacement

Intake Throttle



- Faster warm-up at start-up
- Allows better control of after treatment temperatures
- Smoother engine shut down, reduced engine vibrations at key-off.

EGR Flow Sensor Improvements



A new venture concept using a plastic cover keeps pressure ports warm and protects the EGR flow sensor from cold wind blasts, reducing condensation and preventing soot build up.



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Carryover Design Features

- Precision-Flow Cooled EGR System uses three state-of-the-art components to provide exactly the right amount of EGR with fast response.
 - Sliding nozzle variable geometry turbocharger with electronic actuation — to responsively provide the needed *EGR pressure*.
 - Poppet-style hydraulic EGR valve – to accurately provide the needed *EGR flow*.
 - Delta-pressure flow sensor – to provide precise *measurement of the EGR flow* and integrate the signals back to the turbo actuator and EGR valve through a closed-loop electronic management system.
- Single-piece rigid deck cylinder head with thirty-eight cylinder head fasteners. Like the block, the head is cast with proprietary technology in Volvo's own foundry in Skovde, Sweden.
- Steel cylinder head gasket for withstanding high combustion pressures.
- Steel "ladder" reinforcement to increase stiffness of main-bearing area for today's combustion pressures.
- Volvo Engine Brake (I-VEB) - Intelligent, integrated compression brake engine retarder, with high retardation over the speed range. The engine brake software features a control stalk on the steering column that integrates the I-VEB with the service brakes and the I-Shift transmission with the following control functions:
 - O – Off
 - A – Automatic. 'Brake Blending' applies engine brake at 50% when brake pedal applied
 - 1 – 40% engine braking
 - 2 – 70% engine braking
 - 3 – 100% engine braking
 - B - I-Shift transmission in maximum engine braking mode (when so equipped)
- Full flow oil filtration with deep-flow canisters ensuring full media usage.
- Bypass oil filter uses 5-micron filter to remove fine particles.
- Low-return-flow fuel system cools fuel in the engine, not the fuel tank, providing consistent fuel temperature to the injectors regardless of extreme summer heat or frigid winter cold.
- Available engine mounted primary fuel filter with in-cab water-in-fuel warning indicator.
- Selective Catalytic Reduction
- Diesel Exhaust Fluid (DEF)

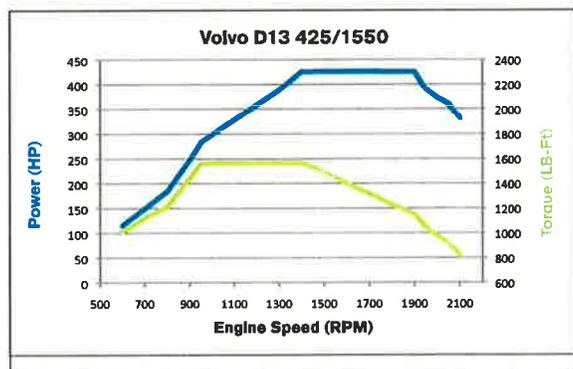


VOLVO D13

425 / 1550



Just like the entire Volvo engine family, the D13 is designed to produce the power needed for your specific application, the fuel economy crucial to your bottom line, and the reliability your customers demand. Volvo achieves these goals by starting with a foundation of proven, mature engine architecture, and then leveraging innovative hardware and technology to optimize performance, productivity and efficiency. Thoughtful features are expertly integrated to deliver the solution for your needs.



Advertised Power, HP	425
Peak Torque, lb-ft@rpm	1550@1000

Governed rpm	2100
Recommended cruise speed range, rpm	1250-1500

SPECIFICATIONS

Ratings:	Power: 425 HP Torque: 1550 lb-ft
Base Engine Configuration	4 cycle / Inline Six
Emissions	SCR Selective Catalytic Reduction
Aspiration	Sliding Nozzle Variable Geometry Turbocharger
Cam / Valve Configuration	SOHC / 4 Valves per Cylinder
Cylinder Head	One Piece Rigid Deck Cylinder Head
Injection System	Common Rail
Maximum Fuel Injection Pressure, psi (bar)	35,000 (2,400)
Rating Uprateability	Software Only, Throughout Range
Displacement, cu. in. (L)	780 (12.8)
Compression Ratio	17:1
Bore & Stroke, in. (mm)	5.16 x 6.22 (131 x 158)
Cylinder Spacing, in. (mm)	6.61 (168)
Full Dress Dry Weight, lb. (kg)	2605 (1182)
Fuel and Lubrication:	
Fuel Specification	Ultra Low Sulfur Diesel, 15 ppm
Fuel Filters	Primary plus Secondary
Total Lube Oil Capacity, qts. (L)	42 (40)
Oil Filtration	Two Full Flow
Oil Drain Interval, Normal Service, miles (km)	60,000 (96,580)*
Oil Specification	Volvo VDS-4.5, SAE 10W-30
FLOCS Oil Drain Kit	Optional
Engine Equipment:	
Air Compressor, CFM	Two Cylinder, 31.8
Retarder	I-VEB Volvo Engine Brake (VEB)
Engine Brake Rating at 2200 rpm	500 hp @ 2200 rpm
Engine Brake Rating at 1500 rpm	350 hp @ 1500 rpm
Engine Brake Weight, lbs. (kg)	25 (12)
PTO Port for Live Rear PTO Pump or Shaft	Standard on VHD
Preheater, Electrical	Optional

*Volvo VDS 4.5 Genuine Oil. Application at 6 mpg or greater.

VOLVO D13

425 / 1550

High-efficiency aftertreatment system

Volvo's "one-box" exhaust aftertreatment system offers smaller system packaging and reduces weight by 17 pounds from previous systems. The one-box configuration provides better thermal encasing of exhaust energy, and improves muffler efficiency. The use of Cu-Z catalyst coatings improves both low-temperature NOx conversion, and long-term system robustness.

D13 drivetrain recommendations

It is critical to specify the truck properly to achieve maximum fuel economy and performance.

Ask your salesman to help you choose a rear axle ratio appropriate for your expected cruising speed and gross combination weight.

Never specify a Volvo D13 engine for a cruise speed above 1550 rpm.

FEATURE	BENEFIT
Variable Geometry Turbocharger (VGT)	Supercharges the intelligent Volvo Engine Brake (VEB) system for high retarding horsepower at low rpm, where engine braking is needed most.
Common-rail fuel injection	Precise control allows quicker, more accurate injection for improved fuel economy; clean installation improves reliability and reduces engine noise.
Ultra-high 35,000 psi fuel injection pressure	Finer fuel atomization for cleaner burn, reduced emissions and better fuel economy.
Wave piston design	Wave design optimizes cylinder efficiency, reducing soot production while enhancing fuel efficiency and performance.
Precision-Flow Cooled Exhaust Gas Recirculation	Tuned to give just the EGR flow needed, no more, no less, for optimum fuel consumption.
Oil-Cooled dual-port EGR valve	Consistent temperature; balanced pressure design with reduced opening force for high reliability and stick resistance.
Volvo engine family shares common architecture	Thorough component development assures more refined design.
Rigid deck cylinder head	Six headbolts per cylinder arrangement delivers uniform clamping force for long life.
Camshaft damper	Reduces injection system torsional vibration and high frequency buzz, for longer component life.
Smart fan clutch	Increases fuel efficiency by only running the fan when extra cooling is necessary, varying fan speed based on cooling needs.
Intelligently modulated VEB	Maintains steady vehicle speed during descent for greater driving comfort, improved safety.
Available VEB	Exceptional retarding, optimized for the rpm you drive, increasing service brake life.
Performance Bonus Guide driver coaching software	Increased fuel savings and driver retention by altering driver behavior through incentives.

VOLVO

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270733 Eaton 10 Speed Fuller FRO-15210C

Affects: All Models
Related: Engine Package (101)
 Clutch (250)
 Rear Axle Ratio (TAX)
Updated: March 15, 2019

The Eaton Fuller FRO Series transmissions offer excellent performance, reliability and durability while delivering additional payload carrying capacity with engines up to 1850 lb-ft torque. The FRO series also provides improved tolerance to driver abuse and more precise shifting which helps improve performance and reduce operating costs.

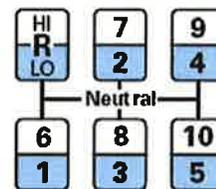
Features

- Improved tolerance to driver abuse with larger diameter mainshaft and new mainshaft washer design
- Patented SynchroSaver™ feature protects against range synchronizer damage caused by improper operation
- Integrated air module improves reliability by eliminating separate components and external air hoses
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal
- Better rail definition, more precise shifting and improved durability with patented single-rod shift controls
- Increased payload capacity with up to 32 lb. weight reduction compared to RT series
- Enhanced PTO options, with relocated side opening and option for two through-shaft PTOs

Roadranger
 DANA | FAYAT



Shift Pattern:



Specifications	Capacity	Weight*	Length**	Speeds
FRO-15210C	1550 lb-ft (2101 Nm)	602 lbs. (273.10 kg)	29.9 in. (760.22 mm)	10 forward, 2 reverse

* Less clutch housing, lubricant and end yoke

**Lengths listed are from face of clutch housing to front bottoming surface of companion flange or yoke

Ratios and Steps:

Model	Overall	REVERSE		1		2		3		4		5		6		7		8		9		10
		L	H		%		%		%		%		%		%		%		%			
FRO-15210C*	17.17	13.75	2.80	12.69	37	9.29	38	6.75	38	4.90	35	3.62	40	2.59	37	1.90	38	1.38	38	1.00	35	.74

* Transmission can be rated at 100 additional lb-ft torque above the stated limit in the top two gears only

Additional Specifications:

- Clutch Housing SAE #1 and #2. Grey iron or aluminum available.

Power Take-offs:

- 2 SAE standard openings.
- *Right side*, regular duty, 6-bolt. *Bottom*, heavy duty 8-bolt. Through-shaft PTO upper right and/or lower left available.

PTO Drive Gears:

- *Right*: 6 bolt; 45-tooth; 6/8 pitch gear. *Left*: 8 bolt 47-tooth; 6/8 pitch gear.
- Turn at .84 engine speed - overdrive.

Oil Capacity:

- Approx. 11.8 qts (11.1 ltrs).
- Integral oil pump, available oil cooler.