

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	<u>91,527.00</u>	<u>183,054.00</u>
2	FRONT TOW HOOKS	2.0000	EA	<u>175.00</u>	<u>350.00</u>
3	ENGINE BRAKE	2.0000	EA	<u>Included</u>	<u> </u>
4	PTO DRIVEN HYDRAULIC WET KIT W W/30 GALLON TANK ON PASSENGER ON THE FRO-15210C TRANSMISSION	2.0000	EA	<u>8,345.00</u>	<u>16,690.00</u>
5	HALF FENDERS	2.0000	EA	<u>995.00</u>	<u>1,990.00</u>

BIDDER MUST COMPLETE THE FOLLOWING

DISCOUNT PAYMENT TERMS: NET % 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 30 days after receipt of order. Failure to enter Delivery Date may cause quotation to be REJECTED.

Sign *Bill Collier* **ORIGINAL**
Here (Authorized Signature MANDATORY - MUST BE SIGNED IN INK)

Enter Contact Information Below

VENDOR# _____
VENDOR: TRUCK CENTER COMPANIES
Address: 5701 ARBOR ROAD
LINCOLN, NE 68517

Contact BILL COLLIER
Telephone 402-464-2444
Facsimile 402-464-9166
Email bcollier@truckcentercompanies.com

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LINCOLN NE 68509-4759

INVITATION

Line	Description	Quantity	Unit of Measure	Unit Price	Extended Price
6	FIXED ROOF FAIRINGS AND CAB EXTENDERS	2.0000	EA	<u>978.00</u>	<u>1,956.00</u>
7	13 SPEED TRANSMISSION TO MATCH ENGINE HP & TORQUE RTLO-16913A	2.0000	EA	<u>1,985.00</u>	<u>3,970.00</u>
8	18 SPEED TRANSMISSION TO MATCH ENGINE HP & TORQUE RTLO-18918B	2.0000	EA	<u>2,795.00</u>	<u>5,590.00</u>
9	EATON FULLER ULTRASHIFT OR OEM EQUIVALENT AUTOSHIFT TR FO-16E309ALL-VMS	2.0000	EA	<u>7,984.00</u>	<u>15,968.00</u>
10	EXTENDED WHEEL BASE W/MIN 12,000 LB PUSHER AXLE	2.0000	EA	<u>8,245.00</u>	<u>16,490.00</u>

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:
			<p>a. Equivalent Brand/Model bid must be approved by NDOT</p> <p>Specify Brand/Model Being Bid:</p> <p>_____</p>

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

* DISCRIPTION OF WHAT PTO DRIVEN WET KIT INCLUDES *

ESTIMATE

5301 Alvo Road
LINCOLN, NE 68514
(402) 464-9393

SO # SO-0890688
Date 06/04/2020
Writer Mike Hollst
Page 1 of 2

Invt:Cust 17:17 Cust acct# 011436 Cust PO#

Sold to:	NDOT (Superior Street) Statehouse(superior St) 302 Superior Street Lincoln, NE 68521-2481	Ship to:	NDOT (Superior Street) Statehouse(superior St) 302 Superior Street Lincoln, NE 68521-2481
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Contact	Payment terms Due on the 10th	Ship via None Specified
Contact phone	Primary phone (402) 471-0850	Prepay and Add

Repair Order no. RO - RO-0111830 **Operation #** 1

Condition BID FOR WET KIT INSTALL OF NEW TRUCKS / SYSTEM TO RUN HYD TRAILER SLIDE / 22 GAL MIN PUMP / 30 GAL

Correction BID IS MADE WITH OUT SEEING TRUCKS / BID WITH LONG TRAILER HYD HOSES FOR HOOKUP / ITP HYD BAR WITH RELIEF AND FILTER MOUNTED FOR EASY ACCESS / AIR SHIFT PTO WITH SWITCHES HOOKED UP TO FACTORY DASH SWITCHES
30 GAL TANK MOUNTED ON RIGHT SIDE WITH SHUT OFF VALVES

Part number	Description	Ord	Del	List Price	Unit price	Ext. price
.....	TG8 PTO ASSY	1	1			
.....	BRKT WITH RELIEF AND HIGH PRESSURE RETUR	1	1			
.....	M5151A824NMZK20-54	1	1			
.....	37 GALLON RESERVOIR	1	1			
.....	1.25" BALL VALVE	1	1			
.....	12V.ELECTRIC/AIR SOLENOID	1	1			
.....	21C HYDRA 1000 ISO 32	35	35			
.....	3/4" HOSE X 1" PIPE	4	4			
.....	3/4HOSE X 1"F JIC FLARE	2	2			
.....	1"HOSE X 1"F JIC FLARE	2	2			
.....	1-1/4HOSE X 1-1/4F JIC FLARE	2	2			
.....	1-1/4 HEX NIPPLE	1	1			
.....	BUSHING 2"MPX1.25"FMP	1	1			
.....	24MP-20FPS	1	1			
.....	24MP-16FPS	1	1			
.....	1-1/4 JIC TO 1-1/4 PIPE	2	2			
.....	1 JIC TO 1 PIPE	3	3			
.....	1M JIC X 1-1/4M PIPE ELB	1	1			

ESTIMATE

5301 Alvo Road
LINCOLN, NE 68514
(402) 464-9393

SO # 50-0890688
Date 06/04/2020
Writer Mike Hollst
Page 2 of 2

Inv: Cust 17:17	Cust acct# 011436	Cust PO#		
.....	16MJ-20MP45		1	1
.....	1"ID MEGA3000 HYDRAULIC HOSE		8	8
.....	3/4"ID MEGA3000 HOSE		38	38
.....	1-1/4" SUCTION/RETURN HOSE		8	8
.....	SEMI-GLOSS BLACK PAINT		1	1
.....	MISC PART - NO CORE		1	1
misc bolts & hardware				
.....	COUPLER		2	2

Labor

Shop supplies

received by _____

See warranties on reverse side

Total merchandise

Total cores

Total labor

Tax amount

Invoice total

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:
bc			

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:
bc			

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:
bc			

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:
bc			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
bc			

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:
bc			

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:
bc			

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:
DC			

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:
AC			

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:
AC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BC			

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:
BL			

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:
AC			

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	
X			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.
X			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.
X			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.materiel purchasing@nebraska.gov
NOTES/COMMENTS:			

C. BASIC SPECIFICATIONS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Tractor should be configured for regional service.
X			a. The Tractor is to be used to pull a variety of vocational trailers owned by NDOT.
X			b. The Tractor shall be no less than 54,000 Gross Vehicle Weight Rating (GVWR).
X			2. Wheel Base:
X			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"/>			1. Fuller 10 speed transmission or Equivalent with "C" rating or low end reduction, .
<input checked="" type="checkbox"/>			a. Six (6) bolt and Eight (8) bolt PTO openings.
<input checked="" type="checkbox"/>			2. Synthetic lubricant in transmission.
<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"/>			1. Front shock absorbers required
NOTES/COMMENTS:			

F. AXLES AND SPRINGS

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

G. STEERING

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

H. BRAKES

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

X			a. On both rear axles.
X			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.
X			7. The compressor shall be a single or two-stage water-cooled type with a Minimum flow of 12 CFM.
X			8. Bendix AD-IP dryer or OEM Equivalent Specify Brand of Dryer: <u>WABCO</u> Specify Type/ Item # of Dryer: <u>SYSTEM SAVER HP</u>
X			9. Drain valve system for all air tanks must be conveniently operated from side of chassis.
X			10. Tractor shall be equipped with tractor protection air valve and coiled air hoses for trailer hook-up.
NOTES/COMMENTS: 4. REAR DUST SHIELDS N/A WITH THIS CONFIG & REAR SUSPENSION			

I. ENGINE

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. The Engine shall be Diesel, be a minimum of 12.8 Liter actual displacement with a rating of 425 HP and 1450 torque. NO OTHER ENGINE WILL BE ACCEPTABLE without written approval by the NDOT five (5) days prior to Bid Opening.
X			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.
X			a. Elbowed exhaust outlet must be of equivalent material and finished as Stack.
X			3. Temperature controlled fan and fuel/water separator required.
X			4. Engine to be equipped with 110 volt AC engine coolant heater:
X			a. Male receptacle with cover for electrical wire for engine heater is to be sturdily mounted.
X			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>D.</u>
NOTES/COMMENTS:			

J. FILTERS

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

K. COOLING

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Manufacturer's heaviest duty cooling capacity radiator.
	X		2. Coolant filter if required by engine manufacturer.
X			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	
X			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>160 GAL</u>
X			2. All Fuel Tanks, of any type, shall be regular accessory units as Shown And Listed In the Truck Manufacturer's Data Books.
X			3. DEF tank to be mounted on driver's side of truck.
NOTES/COMMENTS:			

M. WHEELS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			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.
X			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	
Y			1. Tires shall be:
Y			a. Steel belted radials of tubeless type.
Y			b. 11R22.5 14 ply on rear.
X			c. 12R22.5 16 ply on front and spare.
X			d. Front tires and spare shall have highway tread.
X			e. Rear tires shall have traction tread design.
X			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>MICHELIN / CONTINENTAL</u>
NOTES/COMMENTS:			

O. CAB

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

P. COLOR

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

Q. MIRRORS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Rear vision, rectangular Western Type or OEM mirrors with bright finish housing.
X			2. Size 16 inch by 7 inch (approximately 110 square inches).
X			3. Mirrors mounted on right and left doors of Cab, extendable to maximum legal width. OEM A pillar also acceptable.
X			4. Mirrors to be power adjustable and heated.
X			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	
X			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.
X			a. Stop, Tail Turn and Marker lights to be LED.
NOTES/COMMENTS:			

S. CONTROLS AND INSTRUMENTS

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

X			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.
X			4. Engine hour meter, tachometer and vacuum restriction gauge for air cleaner are required.
X			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: <u>FACTORY DASH MOUNTED</u>
X			5. Cruise control system with electronic engine idle control required.
NOTES/COMMENTS:			

T. WINDSHIELD WIPERS

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

U. ELECTRICAL

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

V. FIFTH WHEEL ASSEMBLY

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Fifth wheel assembly required.
X			2. Holland or Fontaine brand Specify Fifth Wheel Assembly: <u>FONTAINE</u>
X			3. 24 inch adjustable air slide for a two (2) inch pin required.
X			4. Height of approximately 8.5 inches.
X			5. Cast steel type "A" lock, right side release.
NOTES/COMMENTS: RIGHT SIDE RELEASE DISCONTINUED ON ALL FONTAINE MODEL FIFTH WHEELS			

W. GENERAL

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

X. RADIO FREQUENCY SHIELDING – Caution II

YES	NO	NO & PROVIDE ALTERNATIVE	
X			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.

X			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.
X			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.
X			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.
X			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	
X			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:
X			a. Manufacturer's written warranty including engine, transmission and differential must accompany delivered units.
X			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.
X			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.
X			d. It is understood that the bidder accepts the above warranty requirements when offering a bid.
X			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	
X			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.
X			2. Service policy shall be honored by all of the manufacturer's authorized dealers in the State.
X			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	
X			1. Owner's/operator's manual must accompany each unit delivered.
X			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.
X			3. All manuals must be furnished prior to payment and delivered to Fleet Management, Equipment Data Coordinator.
X			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: YOU ARE CURRENTLY USING THE ONLINE SYSTEM AND WILL BE THE SAME FOR THESE UNITS.			

BB. SPECIFICATION FORM

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. "Specification Form(s)" will be provided by NDOT to the Contractor when a purchase order is issued.
X			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.
X			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	
X			<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>
X			<p>2. Each unit shall be delivered with no less than ten (10) gallons of fuel in tanks.</p>
X			<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>
X			<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	
X			<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	
X			<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>

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

FF. USAGE REPORT

YES	NO	NO & PROVIDE ALTERNATIVE	
X			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	
X			1. Delivery desired within 90 days after receipt of order(s). Specify ARO: <u>CURRENTLY AT 90-120 DAYS</u>
NOTES/COMMENTS: THE ORDER BOARD IS A MOVING TARGET RIGHT NOW BECAUSE OF PLANT CLOSURES. HOPE TO HAVE STABILIZED BEFORE LONG.			

HH. ORDERS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Orders will be placed through e-mail
X			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	
X			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.
X			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.
X			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.
NOTES/COMMENTS:			

JJ. AUTHORIZED DEALER & WARRANTY

YES	NO	NO & PROVIDE ALTERNATIVE	
X			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.
X			2. The terms of the original manufacturer's standard warranty shall apply to all equipment acquired from this solicitation for the entire warranty period.
NOTES/COMMENTS:			

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A proposal for
NEBRASKA DOT

Prepared by
TRUCK CENTER COMPANIES
Bill Collier

Jun 04, 2020

Freightliner 114SD



Components shown may not reflect all spec'd options and are not to scale



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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-23D	SD PRL-23D (EFF:01/21/20)			STD
Data Version				
DRL-019	SPECPRO21 DATA RELEASE VER 019			N/C
Vehicle Configuration				
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,476	\$154,920.00
004-221	2021 MODEL YEAR SPECIFIED			STD
002-002	SET BACK AXLE - TRACTOR	500	-480	\$902.00
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-001	TRACTOR/TRAILER CONFIGURATION			N/C
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-002	PICKUP AND DELIVERY/SHORT HAUL SERVICE			N/C
A84-1GM	GOVERNMENT BUSINESS SEGMENT			N/C
AA4-001	GENERAL FREIGHT COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1AD	FREIGHTLINER LEVEL I WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 14000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 54000.0 lbs			
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs			
Truck Service				
AF3-2CR	TRACTOR ONLY WITH NO BODY UPFIT			N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
Tractor Service				
AA2-001	VAN TRAILER			N/C
AH6-001	SINGLE (1) TRAILER			N/C
Engine				
101-2X8	DETROIT DD13 12.8L 435 HP @ 1625 RPM, 1900 GOV RPM, 1550 LB/FT @ 975 RPM			\$820.00
Electronic Parameters				
79A-075	75 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79D-002	1650 RPM/18 MPH LIMIT FOR LOW GEARS, 1650 RPM/44 MPH LIMIT FOR MIDDLE GEARS, 1650 RPM/45 MPH LIMIT FOR HIGH GEARS			N/C
79G-006	5 MINUTES IDLE SHUTDOWN WITH CLUTCH AND SERVICE BRAKE OVERRIDE			N/C
79M-002	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED OR PARK BRAKE NOT APPLIED			N/C
79N-001	PTO MODE CLUTCH OVERRIDE - CLUTCH ENABLED			N/C
79T-001	PTO MODE RPM INCREMENT - 25 RPM			N/C
79W-001	ONE REMOTE PTO SPEED			N/C
79X-003	PTO SPEED 1 SETTING - 800 RPM			N/C
80D-001	SOFT CRUISE CONTROL ENABLED			N/C
80L-001	ENABLE AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE			N/C
Engine Equipment				
99C-017	2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION			STD
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)			\$109.00
13E-001	STANDARD OIL PAN			STD
105-001	ENGINE MOUNTED OIL CHECK AND FILL			STD
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH Safety ELEMENT, FIREWALL MOUNTED			STD
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			STD
292-236	(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES			STD
290-017	BATTERY BOX FRAME MOUNTED			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
281-001	STANDARD BATTERY JUMPERS			STD
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB			STD
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
87P-001	CAB AUXILIARY POWER CABLE	5		\$62.00
180-100	EATON ADVANTAGE 15-1/2 INCH SELF ADJUSTING CLUTCH			N/C
183-008	TORQUE LIMITING CLUTCH BRAKE			N/C
181-002	ZERK FITTING WITH EXTENSION HOSE AT CLUTCH RELEASE BEARING			N/C
182-005	HYDRAULIC CLUTCH CONTROL			N/C
107-044	BW MODEL BA-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE			STD
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD
128-002	JACOBS COMPRESSION BRAKE			STD
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	\$816.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			STD
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			N/C
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			N/C
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK			STD
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			STD
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)			N/C
273-036	BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH			STD
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
110-068	DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR			STD
118-001	FULL FLOW OIL FILTER			STD
266-057	1500 SQUARE INCH ALUMINUM RADIATOR			STD
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT			\$18.00
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-023	HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE			STD
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4		\$117.00
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			N/C
155-075	MITSUBISHI 12V MOD 3.175-DP60 STARTER WITH INTEGRATED MAGNETIC SWITCH			STD

Transmission

342-417	EATON FULLER FRO-15210C TRANSMISSION	60	20	(\$5,353.00)
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Transmission Equipment

347-002	ALUMINUM CLUTCH HOUSING			N/C
341-017	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN			N/C
345-001	PAINTED SHIFT LEVER, SOLID LINKAGE			N/C
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15		\$275.00
35T-003	SYNTHETIC TRANSMISSION LUBE			N/C

Front Axle and Equipment

400-1A8	DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE			\$980.00
402-049	MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			N/C
403-043	2011/2013-FMVSS 121 RSD FRONT BRAKE LINING			\$19.00
419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS			STD
427-001	FRONT BRAKE DUST SHIELDS	5		\$102.00
409-006	FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS			STD
406-001	STANDARD KING PIN BUSHINGS			STD
536-012	TRW TAS-85 POWER STEERING	40		N/C
539-003	POWER STEERING PUMP			STD
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR			STD
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE			\$17.00
Front Suspension				
620-010	14,600# TAPERLEAF FRONT SUSPENSION	170		\$484.00
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION			STD
62G-998	NO FRONT SUSPENSION OPTIONS			STD
410-001	FRONT SHOCK ABSORBERS			STD
Rear Axle and Equipment				
420-1K4	MT-40-14XP 40,000# R-SERIES TANDEM REAR AXLE		-30	\$574.00
421-342	3.42 REAR AXLE RATIO			N/C
424-003	IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY DUTY AXLE HOUSING		40	\$102.00
386-075	MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	20	20	\$157.00
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			STD
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30	\$1,317.00
878-023	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE			N/C
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF			STD
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			N/C
423-019	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			\$343.00
433-043	2011/2013-FMVSS 121 RSD REAR BRAKE LININGS			N/C
434-003	STANDARD BRAKE CHAMBER LOCATION			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
451-001	CAST IRON OUTBOARD REAR BRAKE DRUMS		20	STD
440-006	REAR OIL SEALS			STD
426-101	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS			STD
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			\$93.00
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			N/C
42T-001	STANDARD REAR AXLE BREATHER(S)			STD
Rear Suspension				
622-1H2	HENDRICKSON PRIMAAX EX 46,000# REAR AIR SUSPENSION		450	\$5,902.00
621-125	HENDRICKSON PRIMAAX 10.00" RIDE HEIGHT			N/C
431-003	AXLE CLAMPING GROUP			N/C
624-009	54 INCH AXLE SPACING			N/C
888-047	MANUAL DUMP VALVE FOR AIR SUSPENSION WITHOUT GAUGE			\$110.00
87D-006	INDICATOR LIGHT FOR EACH REAR SUSPENSION CONTROL SWITCH			N/C
910-001	SINGLE AIR REAR SUSPENSION LEVELING VALVE			N/C
623-002	TRANSVERSE CONTROL RODS			N/C
439-005	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM) (AIR RIDE SUSPENSION)			N/C
Brake System				
490-101	WABCO 4S/4M ABS WITH TRACTION CONTROL, WITH ATC OFF-ROAD SWITCH			\$160.00
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
413-002	STD U.S. FRONT BRAKE VALVE			STD
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER			STD
479-015	AIR DRYER FRAME MOUNTED			STD
460-001	STEEL AIR BRAKE RESERVOIRS			STD
477-036	PULL CABLES ON ALL AIR RESERVOIRS WITH KEY RING TYPE ATTACHMENT			\$3.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
Trailer Connections				
481-072	12 FOOT COILED TRAILER AIR HOSE WITH 48 INCH TRACTOR, 12 INCH TRAILER LEADS	12		\$7.00
476-001	18 INCH STAINLESS STEEL SLIDE BAR WITH SPRING TYPE TRAILER AIR HOSE HANGER	2		N/C
484-006	COMBINATION DUMMY GLAD HANDS AND LIGHT PLUG HOLDER			N/C
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION			N/C
297-008	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE BRACKET LH LOWER CAB MOUNTED			N/C
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD
310-082	12 FOOT DETACHABLE COILED PRIMARY TRAILER ELECTRICAL CABLE WITH SAE J560 CONNECTOR WITH 48 INCH TRACTOR, 12 INCH TRAILER LEADS	12		(\$5.00)
Wheelbase & Frame				
545-482	4825MM (190 INCH) WHEELBASE			N/C
546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	170	-10	\$314.00
552-030	1600MM (63 INCH) REAR FRAME OVERHANG			STD
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			N/C
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 124.41 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 120.21 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 283.07			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 29.61 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 15.88 in			N/C
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 80.43 in			
553-002	FLANGED TAPERED END OF FRAME			N/C
550-001	FRONT CLOSING CROSSMEMBER			STD
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-020	INVERTED U TRACTOR CROSSMEMBER		10	\$53.00
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		30	N/C
Chassis Equipment				
674-001	LH BACK OF CAB ACCESS	5	5	N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
592-053	14 INCH (350MM) DECK PLATE FLUSH MOUNTED BETWEEN RAILS	5	5	N/C
556-1E5	14 INCH PAINTED STEEL BUMPER	20		\$228.00
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			STD
585-042	BETTS B-25 PAINTED MUDFLAP BRACKETS		15	N/C
590-001	BLACK MUDFLAPS		15	N/C
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
583-058	PLASTIC QUARTER FENDERS WITHOUT LOGO		30	\$108.00
Fifth Wheel				
578-1T9	FONTAINE NO-SLACK II 7000 SERIES 7LWB 24.0 INCH AIR SLIDE FIFTH WHEEL WITH CAST TOP PLATE - 2 INCH SLIDE INCREMENTS	30	500	\$339.00
577-559	FIFTH WHEEL 559MM (22.0 INCHES) AHEAD OF SUSPENSION CENTERLINE			N/C
582-008	210MM (8.25 INCH) FIFTH WHEEL HEIGHT			N/C
570-001	OUTBOARD ANGLE - FIFTH WHEEL MOUNTING			N/C
890-001	DASH MOUNTED CONTROL AND PLUMBING FOR FIFTH WHEEL			N/C
579-003	SIDE LEFT FIFTH WHEEL RELEASE			N/C
Fuel Tanks				
206-154	80 GALLON/302 LITER ALUMINUM FUEL TANK - RH	95	20	\$983.00
204-154	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH	10		\$144.00
218-006	25 INCH DIAMETER FUEL TANK(S)			STD
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD
212-014	LH FUEL TANK MOUNTED FORWARD, RH FUEL TANK MOUNTED AFT			N/C
664-001	PLAIN STEP FINISH			STD
205-001	FUEL TANK CAP(S)			STD
122-1K4	DAVCO 487 FUEL/WATER SEPARATOR WITH ESOC AND 12 VOLT PREHEATER	15		\$890.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD

Tires



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Data Code	Description	Weight Front	Weight Rear	Retail Price
093-994	MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES	50		\$300.00
094-2F6	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES		184	(\$824.00)
510-994	MICHELIN XZE 12R22.5 16 PLY RADIAL SPARE TIRE		125	\$868.00

Hubs

418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			STD

Wheels

502-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS	26		STD
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		104	STD
50T-998	NO FRONT AXLE WHEEL/HUB COVER			STD
511-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC SPARE WHEEL		83	\$195.00

Cab Exterior

829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
650-008	AIR CAB MOUNTING			STD
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
667-004	FRONT FENDERS SET-BACK AXLE			N/C
678-067	SAFETY YELLOW LH AND RH INTERIOR GRAB HANDLES AND LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT			\$80.00
646-041	STATIONARY BLACK GRILLE			STD
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE			STD
644-004	FIBERGLASS HOOD			STD
727-1AJ	DUAL 14 INCH ROUND POLISHED AIR HORNS	4		\$55.00
726-001	SINGLE ELECTRIC HORN			STD
728-002	DUAL HORN SHIELDS			N/C
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
78G-002	KEY QUANTITY OF 2			STD
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS			STD
302-047	LED AERODYNAMIC MARKER LIGHTS			\$34.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY			\$21.00
294-042	FREIGHTLINER LED FLANGE MOUNTED STOP/TAIL/TURN LIGHTS WITH SEPARATE INCANDESCENT BACKUP LIGHTS		5	\$110.00
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
469-998	NO WORK LIGHT			STD
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			\$286.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
729-001	STANDARD SIDE/REAR REFLECTORS			STD
73A-002	REAR REFLECTIVE DEVICE			N/C
677-053	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH PLAIN SHIELDING			STD
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			STD
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4		\$218.00
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD			STD
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			(\$80.00)

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR			STD
706-013	MOLDED PLASTIC DOOR PANEL			STD
708-013	MOLDED PLASTIC DOOR PANEL			STD
772-006	BLACK MATS WITH SINGLE INSULATION			STD
785-004	DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER			STD
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			STD
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-007	GRAY/CHARCOAL WING DASH			STD
860-004	SMART SWITCH EXPANSION MODULE			\$196.00
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-001	STANDARD HVAC DUCTING			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-015	STANDARD HEATER PLUMBING			STD
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			STD
702-002	BINARY CONTROL, R-134A			STD
739-033	STANDARD INSULATION			STD
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-014	DOMELIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS			STD
655-005	LH AND RH ELECTRIC DOOR LOCKS			\$36.00
284-023	(1) 12 VOLT POWER SUPPLY IN DASH			STD
756-1D9	PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70		\$414.00
760-1D9	PREMIUM HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	60	20	\$451.00
759-002	INBOARD DRIVER AND PASSENGER SEAT ARMRESTS			\$83.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-017	GRAY CORDURA PLUS CLOTH DRIVER SEAT COVER			\$2.00
761-017	GRAY CORDURA PLUS CLOTH PASSENGER SEAT COVER			\$5.00
763-101	BLACK SEAT BELTS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		\$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
67E-998	NO ENTRY/ACCESS/STEP WIRING			STD
Instruments & Controls				
732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			\$36.00
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)			STD
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
845-011	FUEL FILTER RESTRICTION INDICATOR			STD
148-085	EMISSIONS LIMITED IDLE ADJUST			STD
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			\$20.00
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
49B-004	ELECTRONIC STABILITY CONTROL			\$1,019.00
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
746-114	AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	10		\$290.00
747-001	DASH MOUNTED RADIO			N/C
750-002	(2) RADIO SPEAKERS IN CAB			N/C
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			\$23.00
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
813-1B4	VT-HU CONNECTIVITY PLATFORM HARDWARE			STD
8D1-002	2 YEARS DETROIT CONNECT BASE PACKAGE (VIRTUAL TECHNICIAN, DETROIT CONNECT PORTAL ACCESS) FOR VT-HU CONNECTIVITY PLATFORM			STD
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
482-001	BW TRACTOR PROTECTION VALVE			N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
883-001	TRAILER HAND CONTROL BRAKE VALVE			N/C
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			STD
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH			STD
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			N/C
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD
Design				
065-000	PAINT: ONE SOLID COLOR			STD
Color				
980-3E0	CAB COLOR A: N0135EA YELLOW ELITE SS			N/C
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
96F-972	POWDER WHITE (N0006EA) SPARE WHEEL/RIM (PKWHT21, TKWHT21, W, TW)			N/C
964-020	STANDARD BLACK BUMPER PAINT			STD
963-003	STANDARD E COAT/UNDERCOATING			STD
Certification / Compliance				
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
Secondary Factory Options				
95M-998	NO CUSTOMER FURNISHED MATERIAL SPECIFIED			STD
Raw Performance Data				
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 283.07			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 120.21 in			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 80.43 in			



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Data Code	Description	Weight Front	Weight Rear	Retail Price
Sales Programs				
RAG-998	NO TARIFF CHARGE			N/C

TOTAL VEHICLE SUMMARY

Weight Summary				
	Weight Front	Weight Rear	Total Weight	
Factory Weight ⁺	9363 lbs	7712 lbs	17075 lbs	
Total Weight ¹	9363 lbs	7712 lbs	17075 lbs	

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges				
RD1-002	2 YEARS DETROIT CONNECT BASE PACKAGE (VIRTUAL TECHNICIAN, DETROIT CONNECT PORTAL ACCESS)			STD
P73-2FT	STANDARD DESTINATION CHARGE			\$2,200.00

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(**) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

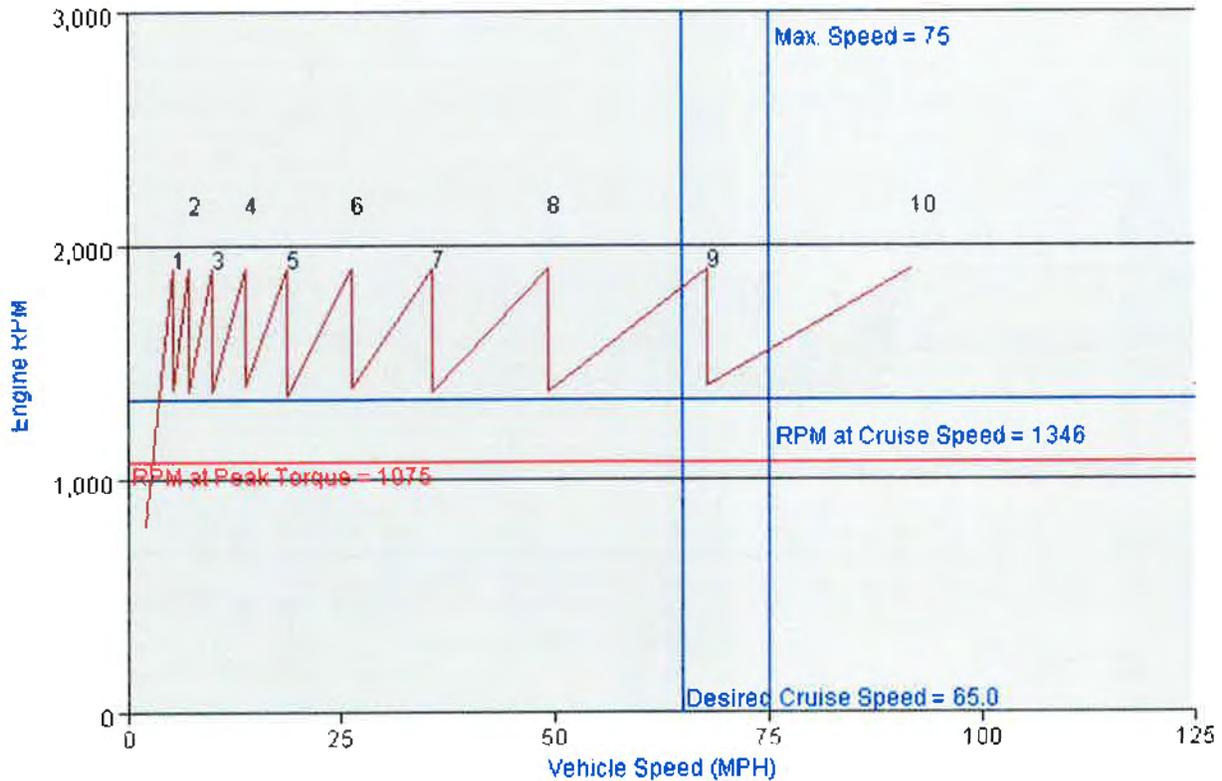
(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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SHIFT CHART



VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph).....	65.0
Engine (101).....	DETROIT DD13 12.8L 435 HP @ 1625 RPM, 1900 GOV RPM, 1550 LB/FT @ 975 RPM
RPM at Peak Torque.....	1075
Governed RPM.....	1900



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Transmission (342)	EATON FULLER FRO-16210C TRANSMISSION
Gear Ratio: LL	N/A
Gear Ratio: L	N/A
Gear Ratio: 1	12.69
Gear Ratio: 2	9.29
Gear Ratio: 3	6.75
Gear Ratio: 4	4.9
Gear Ratio: 5	3.62
Gear Ratio: 6	2.59
Gear Ratio: 7	1.9
Gear Ratio: 8	1.38
Gear Ratio: 9	1
Gear Ratio: 10	0.74
Gear Ratio: 11	N/A
Gear Ratio: 12	N/A
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Auxiliary Transmission (352)	NO AUXILIARY TRANSMISSION
Low Gear Ratio	N/A
High Gear Ratio	N/A
Transfer Case (373)	NO TRANSFER CASE
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	MT-40-14XP 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	3.42 REAR AXLE RATIO
Rear Tires (094)	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile	491

TABLE SUMMARY - SHIFT CHART



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Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1	12.69	3.42	43.40	N/A	800	3.0	5.3
2	9.29	3.42	31.77	36.6	1391	4.1	7.3
3	6.75	3.42	23.09	37.6	1381	5.7	10.1
4	4.90	3.42	16.76	37.8	1379	7.8	13.9
5	3.62	3.42	12.38	35.4	1404	10.6	18.8
6	2.69	3.42	8.86	39.8	1359	14.8	26.2
7	1.90	3.42	6.50	36.3	1394	20.2	35.7
8	1.38	3.42	4.72	37.7	1380	27.8	49.2
9	1.00	3.42	3.42	38.0	1377	38.4	67.9
10	0.74	3.42	2.53	35.1	1406	51.9	91.7

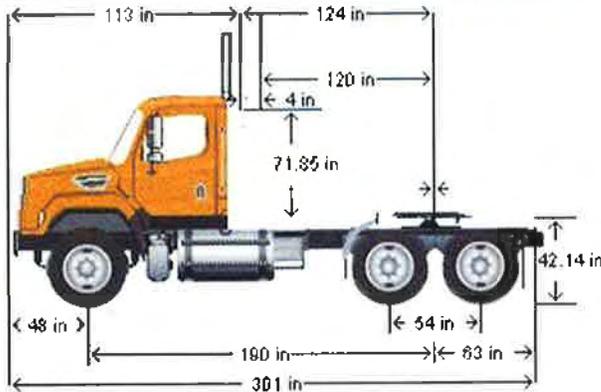
Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	114SD
Wheelbase (545)	4825MM (190 INCH) WHEELBASE
Rear Frame Overhang (552)	1600MM (63 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	FONTAINE NO-SLACK II 7000 SERIES 7LWB 24.0 INCH AIR SLIDE FIFTH WHEEL WITH CAST TOP PLATE - 2 INCH SLIDE INCREMENTS
Mounting Location (577).....	FIFTH WHEEL 559MM (22.0 INCHES) AHEAD OF SUSPENSION CENTERLINE
Maximum Forward Position (in).....	22
Maximum Rearward Position (in)	-2
Amount of Slide Travel (in).....	24
Slide Increment (in).....	2
Desired Slide Position (in).....	0.0
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016).....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS



Prepared for:
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Prepared by:
 Bill Collier
 TRUCK CENTER COMPANIES
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 Phone: 402-464-2444

Dimensions	Inches
Bumper to Back of Cab (BBC)	113.4
Bumper to Centerline of Front Axle (BA)	47.9
Back of Cab to Centerline of Rear Axle(s) (CA)	124.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	120.2
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	4.2
Back of Cab to End of Frame	187.4
Cab Height (CH)	71.9
Fifth Wheel to Centerline of Rear Axle(s) (FW)	0.0
Wheelbase (WB)	190.0
Frame Overhang (OH)	83.0
Overall Length (OAL)	300.8
Rear Axle Spacing	64.0
Unladen Frame Height at Centerline of Rear Axle	42.1

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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G V W R

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model..... 114SD
 Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Expected Front Axle(s) Load (lbs)..... 14000.0
 Expected Pusher Axle(s) Load (lbs)..... 0.0
 Expected Rear Axle(s) Load (lbs)..... 40000.0
 Expected Tag Axle(s) Load (lbs)..... 0.0
 Expected GVW (lbs)..... 54000
 Expected GCW (lbs)..... 80000.0
 Front Axle (400)..... DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
 Front Suspension (620)..... 14,600# TAPERLEAF FRONT SUSPENSION
 Front Hubs (418)..... CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
 Front Disc Wheels (502)..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS
 Front Tires (093)..... MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES
 Front Brakes (402)..... MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
 Steering Gear (536)..... TRW TAS-85 POWER STEERING
 Rear Axle (420)..... MT-40-14XP 40,000# R-SERIES TANDEM REAR AXLE
 Rear Suspension (622)..... HENDRICKSON PRIMAAX EX 46,000# REAR AIR SUSPENSION
 Rear Hubs (450)..... CONMET PRESET PLUS PREMIUM IRON REAR HUBS
 Rear Disc Wheels (505)..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS
 Rear Tires (094)..... CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES
 Rear Brakes (423)..... MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
 Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE
 Pusher / Tag Suspension (626)..... NO PUSHER OR TAG SUSPENSION
 Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS
 Pusher/Tag Disc Wheels (509)..... NO PUSHER/TAG DISC WHEELS
 Pusher / Tag Tires (095)..... NO PUSHER/TAG TIRES
 Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR



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	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axles	14700	20000	20000
Suspension	14600	23000	23000
Hubs	14700	26000	26000
Brakes	14700	21000	21000
Wheels	16000	32000	32000
Tires	14780	23360	23360
Power Steering	18000	N/A	N/A
GAWR (per axle)	14600	20000	20000
GAWR (per axle system)	14600		40000
Expected Load (per axle system)	14000		40000
GVWR due to Frame	90000		
GVWR due to Transmission	300000		
Vehicle GVWR Summary			
Calculated GVWR	54600		
Expected GVWR	54000		
All weights displayed in pounds			

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) 4825MM (190 INCH) WHEELBASE
 Frame Rails (546) 11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI(546)
 Yield Strength (psi)..... 120000
 Section Modulus (per rail) (cu in)..... 16.979
 RBM (per rail) (lbf-in)..... 2037600
 Inner Frame Reinforcement (547) NO INNER FRAME REINFORCEMENT
 Outer Frame Reinforcement (548) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	4825MM (190 INCH) WHEELBASE
Frame	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH); 120KSI
Inner Frame Reinforcement	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	16.98
Frame RBM - per rail (lbf-in)	2037600

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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DAIMLER

Premium D/C 756-1D9 / 760-1D9 & Elite D/C 756-1E1 / 760-1E1 Air Suspension Seats



FREIGHTLINER

WORK SMART™

114SD

VOCATIONAL SEVERE DUTY





WORKING HARDER JUST GOT A LOT SMARTER.

Freightliner's 114SD was built for severe duty: packed with power and ready for work. For starters, the Detroit DD13* engine with BlueTec* emissions technology comes standard and offers 350 HP and 1,350 lb-ft of torque. Cummins ISC, ISL and ISL G also are available as options. The 114SD has optimized mid-chassis packaging and a strategically-mounted aftertreatment

system. The chassis layout simplifies upfitting for truck equipment manufacturers. And Freightliner's proprietary SmartPlex™ Electrical System provides unmatched flexibility when configuring a truck to suit specific body installations. The 114SD also offers an incredible combination of durability and comfort. It's been through rigorous testing to ensure that it delivers performance and reliability in the most demanding situations. And the automotive-style interior is designed to keep operators safe and productive. Put simply, the 114SD sets the new standard for engineered performance and efficiency.



Set-Back Axle

48"



Set-Forward Axle

31"

*29.5" optional

Available axle configurations:

- 114" BBC Set-Forward Axle
- 114" BBC Set-Back Axle

Available cab configurations:

- Day Cab
- Extended Cab
- Crew Cab (Set-Back Axle Only)



WHERE TOUGHNESS MEETS EFFICIENCY.

We've applied sophisticated engineering to the structural elements of our work trucks. First, our cabs are lightweight, yet extremely tough. Corrosion-resistant aluminum is reinforced with e-coated steel and assembled to precise manufacturing tolerances with Henrob rivets and welded construction. This process produces a durable and safe cab that meets stringent A-pillar impact, rollover and back wall impact tests. Plus, the chassis includes a robust backbone with a complete offering of single and double channel frame rails. The result is a tensile strength of up to 120,000 psi and an RSM ratio up to 4.4 million inch-pounds per rail. This means the 114SD can handle whatever job is thrown at it, day after day, year after year.



Aluminum Structural Reinforcements
E-coated Steel Reinforcements
Corrosion-resistant Aluminum Panels

- Corrugated floor, roof and back-of-cab panels for added strength
- Meets Swedish A-pillar test standards and SAE J2422 roof strength requirements
- Available in day cab, extended cab or 4-door crew cab configurations
- 2,600 square-inch one-piece windshield for outstanding job site visibility
- Wide door openings with low step-in height for safe entry and exit
- Steel firewall for solid mounting of dash panel and driver controls



Components, systems and entire vehicles are subjected to an array of virtual and physical tests to ensure our trucks deliver the expected function, performance and reliability.



STANDARD FEATURES

- 114" BBC steel-reinforced aluminum day cab
- Set-forward front axle position @ 31"
- Strong, durable cab and hood
- Radiator-mounted mold-in color front grille with signature styling
- Front grille, headlight bezels, engine air intake grille, bumper and primary mirrors trimmed in black
- Halogen composite headlights
- Air rear cab mounts
- Ergonomic wing dash
- 63" x 14" rear window
- Up to 50-degree wheel cut, depending on wheel equipment
- Detroit™ DD13® engine with 350 HP, 1350 lb-ft torque
- Eaton® Fuller® 10-speed manual transmission
- Front axle rated at 12,000 lbs
- Rear axle rated at 40,000 lbs
- 60-gallon cylindrical fuel tank



OPTIONAL FEATURES

- Bright-accented front grille with chromed grille surround, headlight bezels and engine air intake grille
- Engine air intake pre-cleaner
- Integral front frame extensions in 12" and 24" lengths for front bumper stabilizer install
- Large selection of wheelbases with frames and frame reinforcements to meet severe duty needs
- Front engine, rear engine and transmission power take-offs
- Three batteries mounted under cab with clear back-of-cab packaging
- Range of cylindrical and rectangular aluminum fuel tanks
- Steer axles from 12,000 to 22,000 lbs
- Single drive axles from 21,000 to 38,000 lbs rating
- Tandem drive axles from 40,000 to 58,000 lbs rating
- Multiple clear frame specifications for outrigger installation
- Tridem drive axle set rated at 69,000 lbs
- Pusher and tag axles rated from 8,000 to 22,000 lbs, available in single or dual configurations
- A wide range of Eaton® and Allison® transmissions
- Freightliner AirLiner® and TufTrac® rear suspensions
- Hendrickson® and Chalmers® rear suspensions
- Expanded dash instrumentation, switches and controls to meet almost any vocational application
- Detroit™ DD13 engine with up to 470 HP, 1650 lb-ft torque
- Cummins® ISC engine with up to 350 HP, 1000 lb-ft torque
- Cummins® ISL engine with up to 380 HP, 1300 lb-ft torque
- Cummins® Westport ISL G (natural gas) engine with up to 320 HP, 1000 lb-ft torque
- Removable and frame-mounted front tow devices
- Grab handles with rubber inserts
- 3.2 million RBM single frame rail



SPECIALIZED OPTIONS

- Bridge formula bumpers for 29.5" front axle position
- Mixer body transition plates
- Set-back front axle position @ 48"
- Switch/harness pre-wire for lights (multiple configurations)
- Fresh air intake snow shield
- Snow plow crossmember for wing plow support
- Extreme climate thermal cab insulation
- Carbon fiber-reinforced aluminum type 3 compressed natural gas (CNG) fuel tanks with approximate range of 400 miles, depending on application
- 4.4 million RBM multi-channel frame rails



FREIGHTLINERTRUCKS.COM/WORKSMART



WORK SMART™

Competitive financing available through Daimler Truck Financial. For the Freightliner Trucks Dealer nearest you, call 1-800-FTL-HELP. www.freightlinertrucks.com. 20M, 1/2012. FTL/MC-A-1153. Specifications are subject to change without notice. Freightliner Trucks is registered to ISO 9001:2008 and ISO 14001:2004. Copyright © 2012, Daimler Trucks North America LLC. All rights reserved. Freightliner Trucks is a division of Daimler Trucks North America LLC, a Daimler company.

FREIGHTLINER

VENDOR COMPONENTS



HENDRICKSON PRIMAAX® EX

With its rugged, weight efficient design, PRIMAAX® EX is a premium heavy-duty rear air suspension that delivers advanced suspension technology for the rigorous demands of vocational, severe service and heavy haul applications. PRIMAAX EX offers a premium ride and optimal performance by adjusting to both the load and road conditions, while demonstrating outstanding diagonal wheel articulation for superior off-road mobility, making the PRIMAAX EX an excellent choice for Freightliner severe duty trucks. The system features a new robust structural design with optimized suspension geometry for improved durability, reliability and handling characteristics. Structural beams form a solid connection with the square cross brace to form a rigid torsion and stabilizer system. PRIMAAX EX minimizes suspension induced driveline vibration and

significantly controls suspension windup and corresponding frame rise. Premium, heavy-duty rubber bushings require no lubrication and are performance tested for longer service life.

PRIMAAX EX is available in capacities of 23,000 and 26,000 lbs. (single-axle), 46,000 and 52,000 lbs. (tandem-axle) and 69,000 lbs. (tridem-axle). The system is ideal for a variety of grueling vocational and severe-duty applications, including construction, refuse, mixer, logging and heavy-haul applications.

VENDOR COMPONENTS

HENDRICKSON PRIMAAX® EX

MAAXimize Performance and Durability

Genuine Hendrickson Torque Rods

- Optimized configuration helps improve handling and roll stiffness for expanded applications
- Premium retained rubber bushings for increased service life and resistance to walkout
- Alternative rods available for disc brake use

Air Springs

- Large volume, low frequency design for improved ride
- Advanced design air springs lift and support the load with less air pressure

Structural Beams

- Redesigned beams utilize premium materials to improve durability
- Robust rubber bushings improve service life and eliminate lubrication requirements

Heavy-Duty Shock Absorbers

- Positioned and tuned for optimum damping characteristics

QUIK-ALIGN™

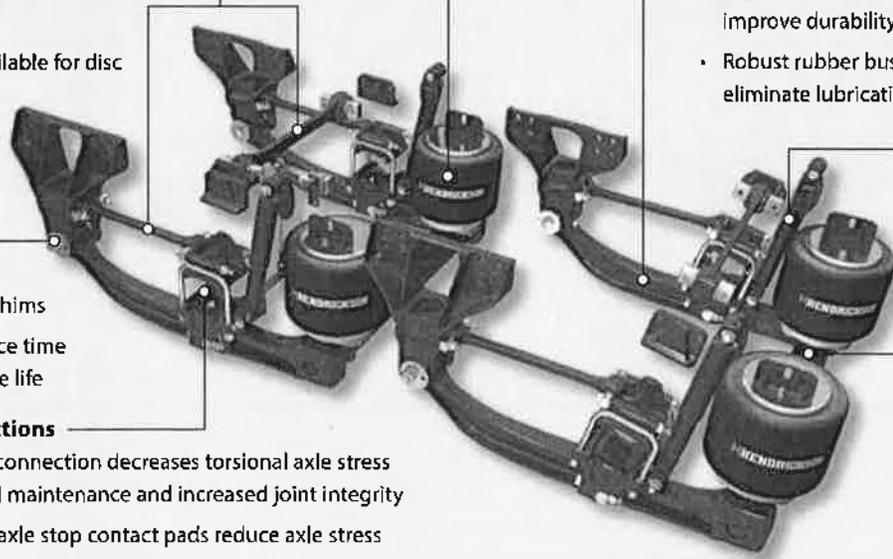
- Allows for easy axle alignment without shims
- Reduces maintenance time and helps extend tire life

Axle Connections

- D-pin axle connection decreases torsional axle stress for reduced maintenance and increased joint integrity
- Integrated axle stop contact pads reduce axle stress

Cross Beams

- Seamless fabrication technology forms a robust torsion system with structural beams, improving stability



PRIMAAX® EX SPECIFICATIONS

Suspension Capacity	Axle Spacing	Data Code	GCW Rating	Site Travel Rating	Axle Configuration
23,000 lbs.		622-1H0	Contact vehicle OEM ¹	30,000 lbs.	Single
26,000 lbs.		622-1H1	Contact vehicle OEM ¹	33,000 lbs.	Single
46,000 lbs.	54 / 60 / 72	622-1H2	Contact vehicle OEM ¹	60,000 lbs.	Tandem
52,000 lbs.	54	622-1H3	Contact vehicle OEM ¹	66,000 lbs.	Tandem
69,000 lbs.	54	622-1H4	Contact vehicle OEM ¹	90,000 lbs.	Tridem

1. Suspension must be paired with appropriate axle rating.

PRIMAAX EX is available on the following Freightliner models: Business Class, M2 106, M2 112, 108SD, 114SD, 122SD and Coronado 132.

For important conditions associated with the above referenced specifications and additional information regarding this product, refer to Hendrickson publication No. 45745-178. Information contained in this literature was accurate at the time of publication.

HENDRICKSON
The World Rides On Us

www.hendrickson-intl.com



www.freightlinertrucks.com

FTL/MC-V-517

45745-228 Rev F 04-20

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Freightliner (FTL)



Run Smart™

Freightliner SD Vocational

Applicable Models:	108SD/114SD
SD Vocational Coverage is only available for vehicles ordered with the following engines:	Cummins B, C, or L
SD Vocational Coverage is not available for vehicles in these vocations:	Logging, Mining, Oil Field
Category Determinants	
Road Surface — most severe in-transit between sites	<30% off-highway rough, maintained concrete/asphalt; maintained gravel/crushed rock; maintained dirt or soft soil (Class C or D roads) ¹
GCW	92,000 lb/41 730 kg or less
Axles and Their Manufacturer's GVW Rating	
2-axle unit	46,000 lb/20 865 kg or less
3-axle unit	66,000 lb/29 937 kg or less
4-axle unit	N/A
5-axle unit	N/A

¹Class C roads have a natural surface and may be either constructed or established over time by repeated passage of vehicles. The natural surface may be dirt, sand, or rock. A minimal amount of maintenance, if any at all, is limited primarily to spot surface grading to allow vehicle passage within the original road corridor. Class D roads are primitive roads that were not constructed but have been established over time by the passage of motor vehicles. These roads receive no maintenance or grading.

Coverage ²		
Description	Time ³	Distance ³
Basic Vehicle	2 Years	Unlimited
Battery	1 Year	100,000 mi/161 000 km
Brightwork	6 Months	Unlimited
Cab Corrosion/Perforation	5 Years	Unlimited
Cab Structure	5 Years	Unlimited
Corrosion	6 Months	Unlimited
Crossmembers	5 Years	Unlimited
Diesel Emission 2010 ⁴	5 Years	100,000 mi/161 000 km
Frame Rails	5 Years	Unlimited
GHG14 ⁵ (Medium Heavy Duty to Heavy Heavy Duty Trucks)	5 Years	100,000 mi/161 000 km
GHG14 ⁵ (Medium Heavy Duty to Heavy Heavy Duty Tractors)	5 Years	100,000 mi/161 000 km
GHG14 ⁵ Tire	2 Years	24,000 mi/38 400 km
Paint	1 Year	100,000 mi/161 000 km
Paint, Chassis	6 Months	Unlimited
Front Axle ⁵	2 Years	Unlimited
Rear Axle	2 Years	Unlimited
Transfer Case	2 Years	Unlimited
Transmission	2 Years	Unlimited
Detroit Front Axle ⁶ (File Direct)		
Pre-Model Year 2011 ⁷	2 Years	Unlimited
Post-Model Year 2011 ⁸	3 Years	300,000 mi/483 000 km
Detroit Rear Axle (File Direct)		
Pre-Model Year 2011 ⁷	2 Years	Unlimited

Warranty Statement & Warranty Coverage Descriptions follow on page three of this document.

The information provided in this document is for general information only and is not offered as customer's warranty.

This coverage may be superseded without notification.

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Post-Model Year 2011⁶	3 Years	300,000 mi/483,000 km
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¹Coverage may vary; check vehicle's actual warranty coverage online via OWL's *Coverage Info/Check Coverage* screen.

³Time or distance, whichever comes first

⁴Applies to vehicles equipped with EPA 2010 compliant diesel engines.

⁵Applies to models 2013 and later domiciled in the United States, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as "GHG14...".

⁶Front Axle coverage is also applicable to gliders.

⁷Pre-Model Year 2011 Detroit Axle: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see www.ddcsn.com for specific coverage details.

⁸Heavy Duty – General Service: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see www.ddcsn.com for specific coverage details.

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DETROIT[®] DD13[®] ENGINE

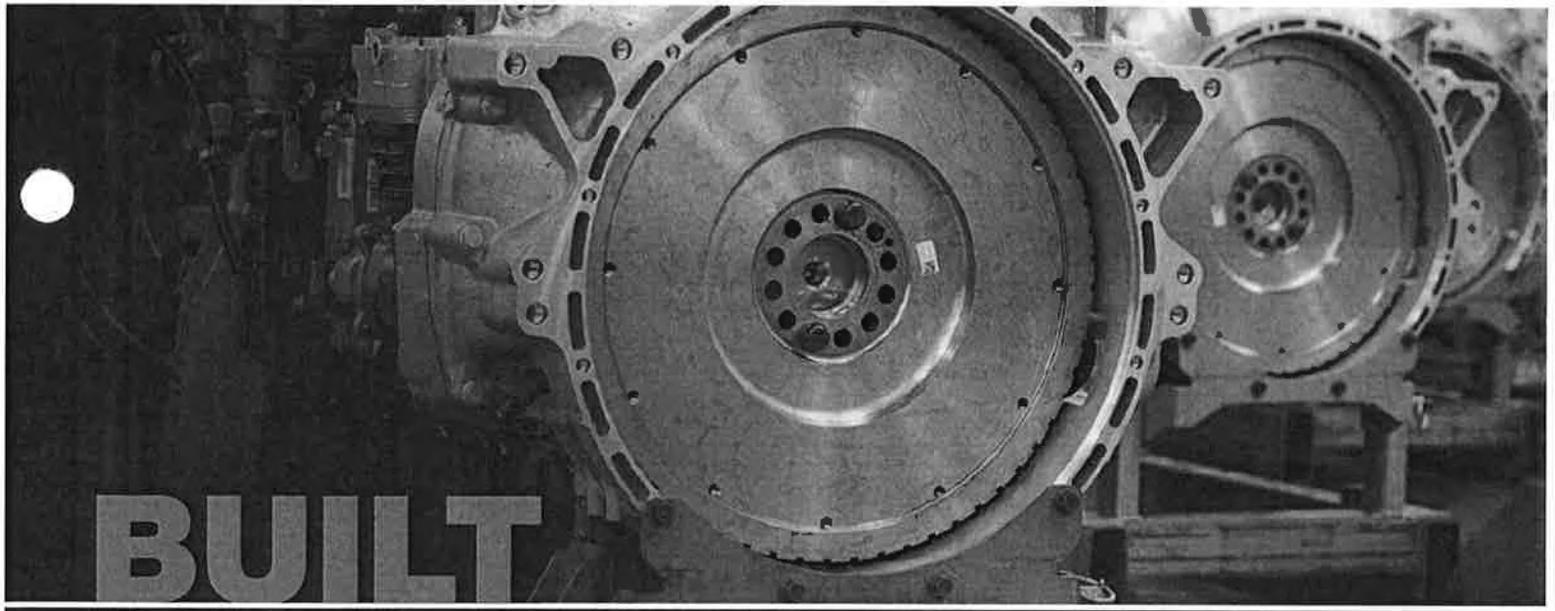
FROM
350-505
Horsepower

FROM
1250-1850
lb-ft Torque

DISPLACEMENT
12.8
Liters

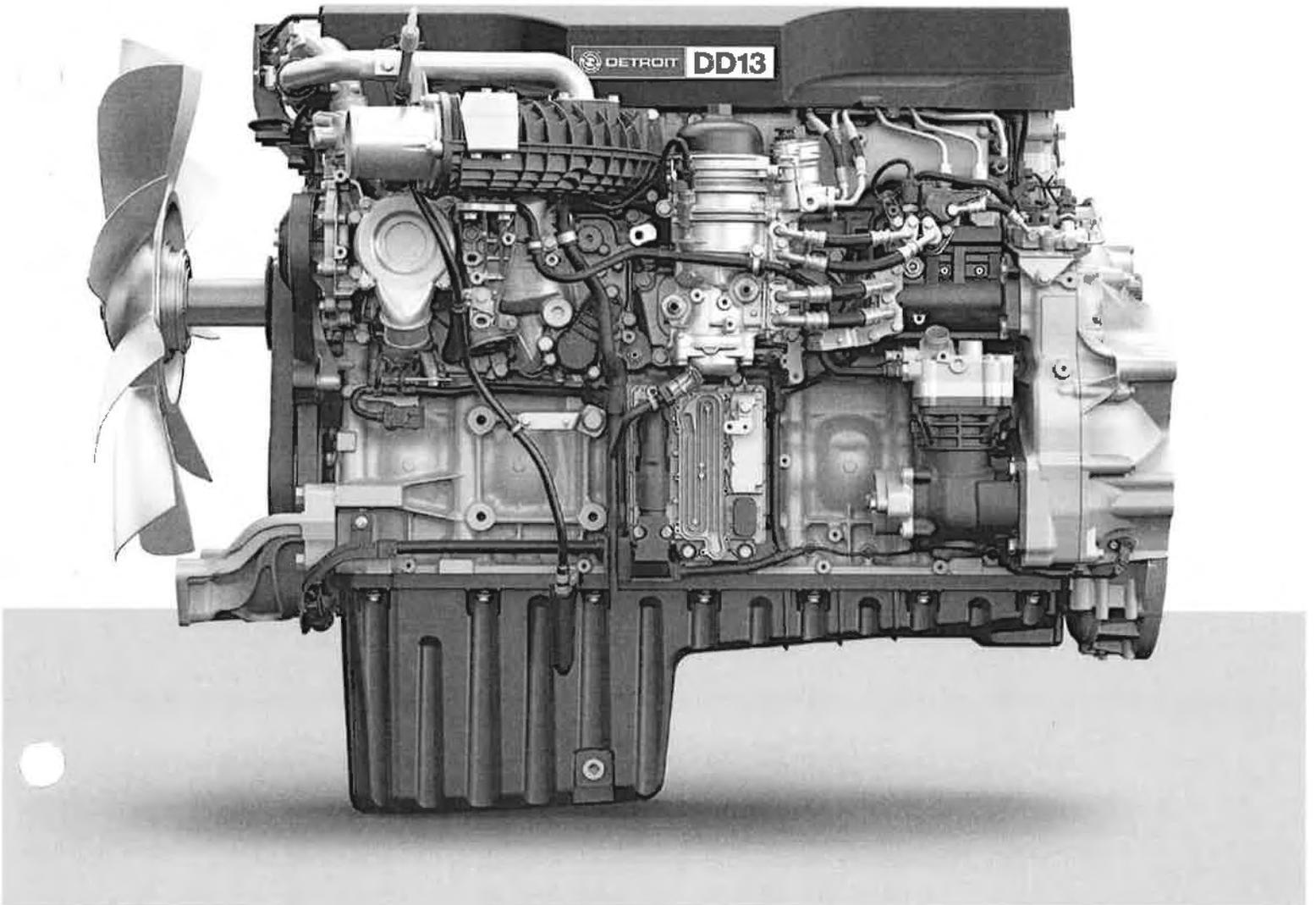


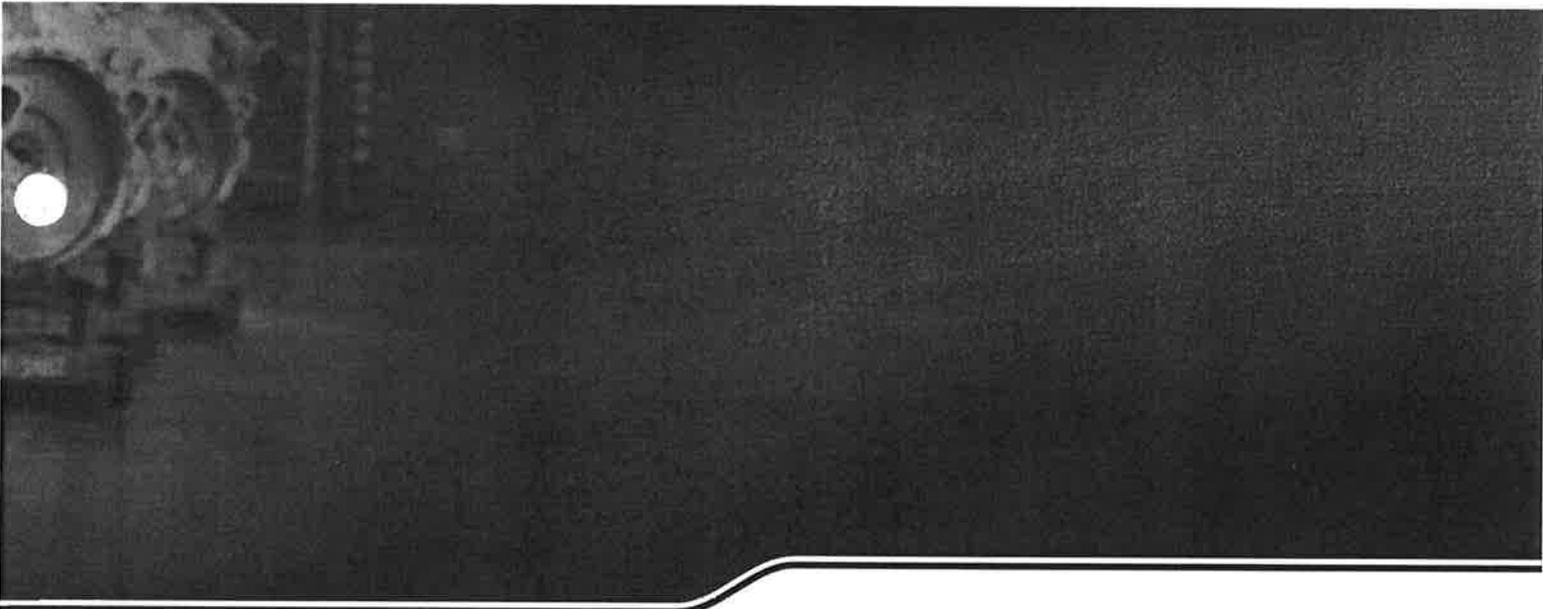
DETROIT[®]
DEMAND PERFORMANCE[™]



BUILT

**FOR YOUR
BOTTOM LINE**





THE DETROIT® DD13® ENGINE OFFERS AN OPTIMAL BLEND OF PERFORMANCE AND EFFICIENCY. IT'S NOT ONLY RIGHT FOR THE JOB, IT'S GREAT FOR YOUR BUSINESS.

Productivity leads to profitability. Whether you're on the road or at a job site, it's important to operate vehicles that perform efficiently and reliably. That's precisely why Detroit builds the versatile DD13 engine with proven emissions technology.

Detroit engineers know what works. And what doesn't. That's why the DD13 follows the common base engine design of its successful big brother, the DD15® engine. This engine is everything you need and nothing you don't. In a time when economy means everything, the DD13 makes perfect sense.

Tailored specifically for LTL, regional distribution, and vocational, the DD13 uses the latest in diesel engine technology to create a fuel-saving 12.8-liter workhorse. It's an ideal pairing for a variety of Freightliner trucks, including the 114SD, 122SD, Cascadia®, M2 112, as well as Western Star models like the WS 4700, WS 4800, WS 4900, and WS 5700. And the DD13 is GHG17 compliant.

LTL

LOADS VARY. PERFORMANCE DOESN'T.

You drive intracity and intercity. Every day is different. But you can count on the DD13 to offer a smooth, efficient drive, no matter what route, pallet, or load comes your way.

REGIONAL DISTRIBUTION

GO THE DISTANCE. AND BEYOND.

You have tight schedules to keep. The DD13 engine keeps you going with proven reliability. It's also highly efficient, so you can minimize fuel and maximize profitability.

VOCATIONAL

THE HARDER YOU PUSH, THE HARDER IT PERFORMS.

This engine is built tough. Perfect whether you're hauling, dumping, or mixing. Push the DD13 to the limit. It's made to work.

THE DD13 BOTTOM LINE BENEFITS:

● **ECONOMY, SERVICEABILITY, PERFORMANCE.
DEMAND IT ALL.**

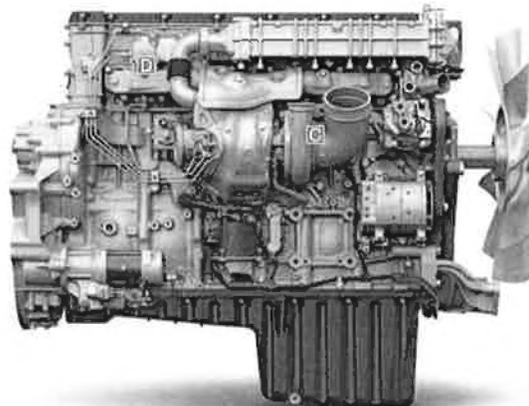
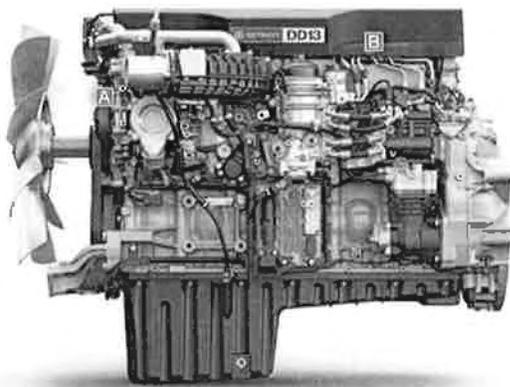
ECONOMY

DETROIT ENGINEERS CONTINUE TO DELIVER GREATER FUEL ECONOMY THROUGH INNOVATION. THIS DD13 ENGINE IS BETTER THAN EVER.

The fuel-efficient design makes the most of every gallon with the 2nd Generation Amplified Common Rail System (ACRS™) that optimizes each injection event to minimize fuel consumption. Available exclusively in Detroit engines, ACRS works in unison with our DDEC® electronic engine controls to deliver the exact amount of fuel you need at the right moment, creating an optimal combustion event. All that work fine-tuning combustion means lower emissions, less engine noise and vibration, and less wasted time stopping at the pump. Everything, right down to the advanced cooling system that decreases fan on-time, was designed to minimize fuel consumption.

WE'VE MADE SEVERAL IMPROVEMENTS TO THE DD13, INCLUDING:

- An optional variable-speed water pump (A) controls flow, based on engine speed and coolant temperature for reduced load on the engine and improved fuel economy.
- The 2nd Generation Amplified Common Rail Fuel System (ACRS) (B), which enables higher injector pressure and optimized combustion control, delivering the exact amount of fuel you need at the right moment.
- Made in Detroit, the proprietary asymmetric turbocharger (C) reduces weight and complexity while contributing to improved performance.
- A friction-optimized piston design (D) contributes to improved fuel economy and reduced oil consumption.



OPTIMIZED DRIVETRAIN EFFICIENCY

When it comes to maximizing the return on your Detroit-powered drivetrain, vehicle gearing is an important thing to consider. Spec'ing the right axles also is a critical factor in the fuel economy equation. To get the most out of each gallon of fuel, simply consult your local Detroit representative. Our engine experts and vast support network will ensure that you get the perfect engine and drivetrain combination to meet your needs. With the Detroit Spec Manager tool, we'll analyze your specifications and make sure that all performance and economy needs are not only met, but exceeded.

Here's what you can expect for typical on-highway tractor-trailer applications of 80,000 lb. or less.

- For maximum fuel economy at typical cruise speeds, gear for an engine speed of 1300 RPM.
- When you need extra performance, gear for an engine speed of 1400 RPM at 65 mph.
- For gearing recommendations specific to heavy-haul or vocational applications, please consult your local Detroit representative.

PERFORMANCE

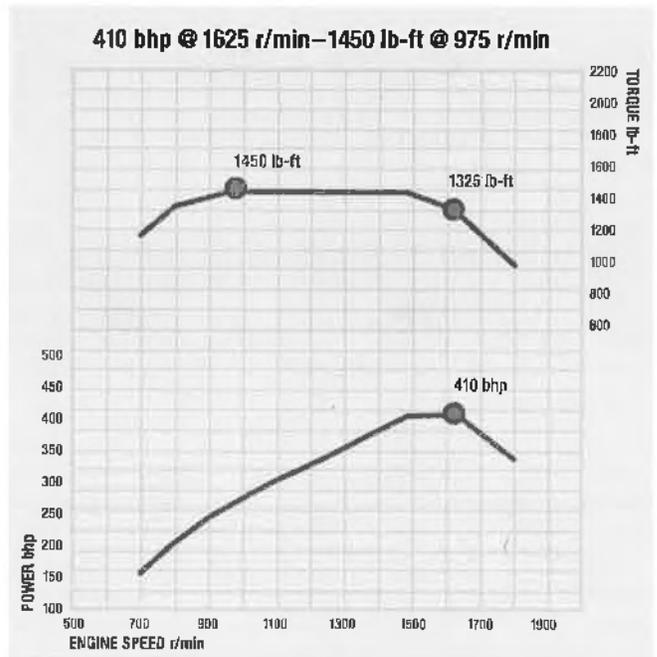
TORQUE RESPONSE IS THE KEY TO PERFORMANCE. THIS ENGINE WILL HAUL, CLIMB, PULL, MIX, AND DUMP WHEN AND WHERE YOU NEED IT.

An extremely wide and flat torque curve maintains the power to keep the driver's foot off the clutch and hands on the wheel for less shifting and fatigue.

With the DD13, drivers also will get a wider sweet spot that makes it easier to cruise along in the fuel-saving range. So, whether you're navigating traffic or maneuvering through a construction site, the DD13 delivers great fuel economy. A three-stage integrated Jacobs® engine brake gives you more stopping power and quieter engine braking than ever before. And, thanks to its exceptional braking power, the Jaka Brake also extends the service brake life.

The DD13 design is based on a sturdy rear gear train and ribbed cast iron block to minimize noise, vibration, and harshness (NVH). The robust design provides a B50 life of one million miles. And, the proprietary, asymmetrical turbocharger has fewer moving parts than a VGT design, which improves performance and reliability. The turbocharger also applies constant back-pressure to efficiently enable the EGR system, all of which add up to a dependable engine that gets drivers where they need to go, and makes work seem a little less like work.

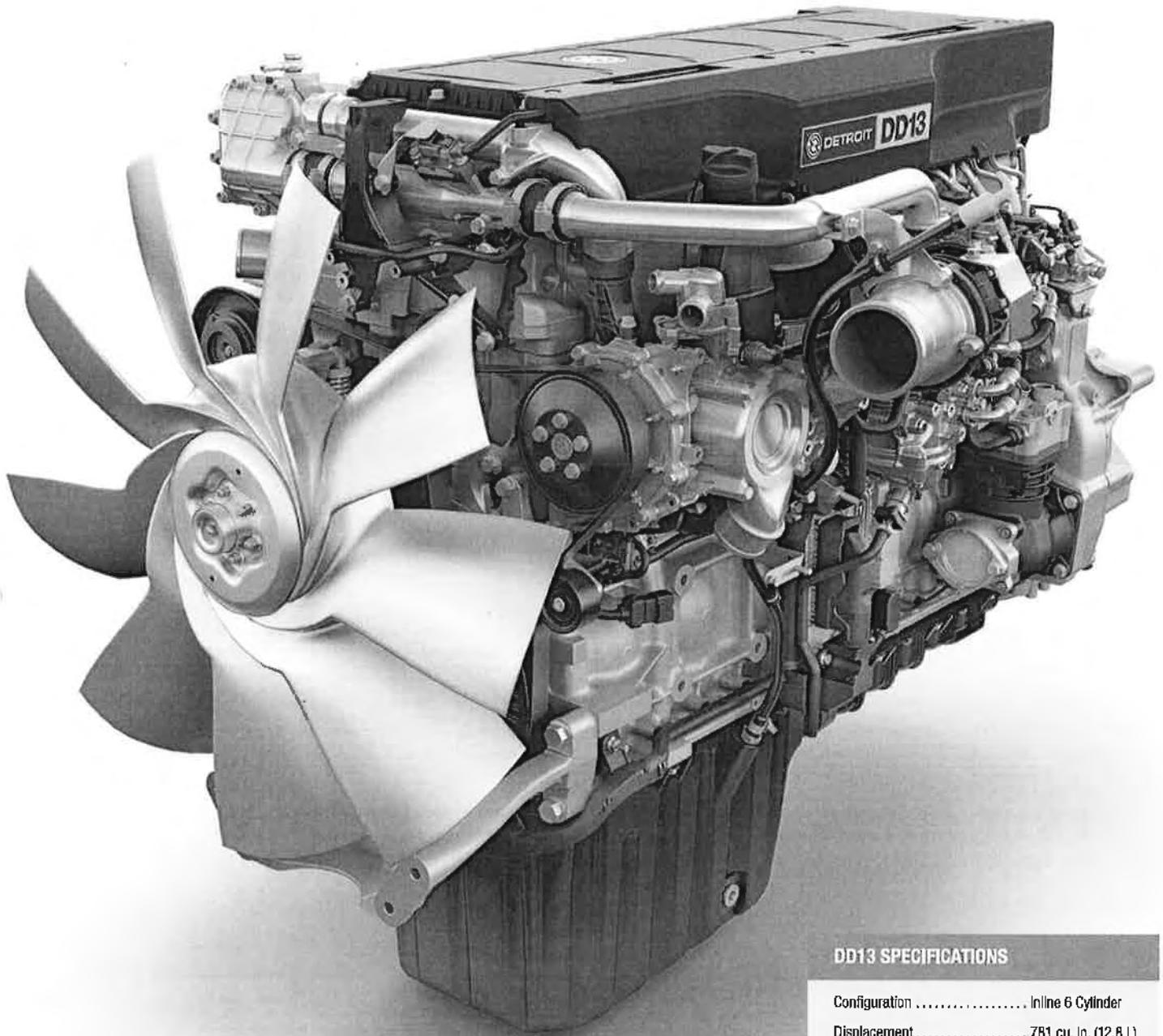
Horsepower and Torque Curve



Power Ratings

DD13 Engine Power Ratings	
350 HP @ 1625 RPM	1350 lb-ft @ 975 RPM
370 HP @ 1625 RPM	1250 lb-ft @ 975 RPM
380 HP @ 1625 RPM	1450 lb-ft @ 975 RPM
400 HP @ 1625 RPM*	1750 lb-ft @ 975 RPM*
410 HP @ 1625 RPM	1450 lb-ft @ 975 RPM
410 HP @ 1625 RPM	1550 lb-ft @ 975 RPM
410 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
435 HP @ 1625 RPM	1550 lb-ft @ 975 RPM
450 HP @ 1625 RPM	1550 lb-ft @ 975 RPM
450 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
470 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
505 HP @ 1625 RPM	1850 lb-ft @ 975 RPM
DD13 Engine Multi-Torque Power Ratings	
410 HP @ 1625 RPM	1450/1650 lb-ft @ 975 RPM

*Integrated Detroit Powertrain only.



DD13 SPECIFICATIONS

Configuration	In/line 6 Cylinder
Displacement	781 cu. in. (12.8 L)
Compression Ratio	18.4:1
Bore	5.20 in. (132 mm)
Stroke	6.15 in. (156 mm)
Weight (Dry)	2487 lb. (1128 kg)
Electronics	DDEC®
Service Fill (Oil & Filter Change) ..	40 qt. (38L)
Horsepower Range	350-505
Torque Range	1250-1850 lb-ft
Rear-Engine Power Take-Off	Optional

**ENHANCED FUEL ECONOMY FOR A
LOWER TOTAL COST OF OWNERSHIP.**

TECHNOLOGY

THE BEST ENGINES HAVE THE BEST TECHNOLOGY.
DETROIT INNOVATION BENEFITS OUR CUSTOMERS
AND LEADS THE INDUSTRY FORWARD.

VIRTUAL TECHNICIAN

Detroit Connect™, a suite of proprietary connected vehicle solutions, is designed to improve your bottom line. Detroit Connect provides fleets and owner-operators services and tools to improve uptime, fuel efficiency, safety, and performance. These tools provide them information about their vehicle they can't get anywhere else to better manage their business operations.

The Detroit Connect Virtual Technician™ remote diagnostic service takes the guesswork out of engine repair. When a truck's check engine light illuminates, data is collected immediately, providing a technical snapshot of the engine's status before, during, and after a fault code event. This information is sent to you and to the Detroit Customer Support Center (CSC), where a trained representative can diagnose the issue, recommend service, and even contact the nearest authorized locations with parts in stock. The CSC can tell you if you need to pull over so you don't cause further damage, or if you can stay on the road. Put simply, it's like having a technician in every truck.

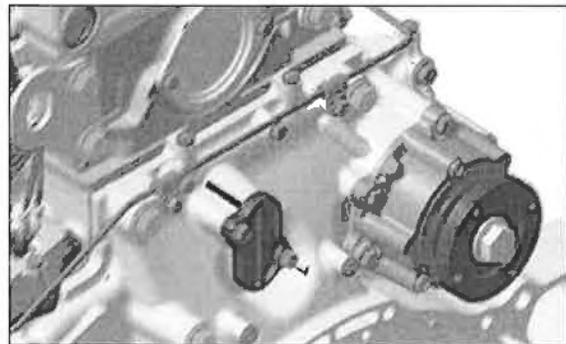
DDEC

Detroit DDEC® is a suite of innovative features that allow you to better manage fuel economy, engine performance, driving efficiency, and maintenance. You can utilize this technology to better control speed, assist in passing, optimize idle efficiency, and even reward your drivers for reaching fuel economy targets. With DDEC, there are also several options available to fleet managers that will help drivers better control engine idling, shifting techniques, and aftertreatment management. To learn more, contact your local Detroit dealer, distributor, or representative.

POWER TAKE-OFF (PTO)

The DD13 also offers rear-engine power take-off as an option for certain applications.

- DD13 PTO provides power while the vehicle is moving or stationary. The Rear-Engine PTO (REPTO) flange, an integral part of the flywheel housing, receives power through the gear train and does not depend on the transmission to receive its power.
- The DD13 is also available with Front-Engines PTO (FEPTO).
- PTOs are used in many applications:
 - Concrete mixers
 - Vacuum trucks
 - Brick and block trucks
 - Log haulers equipped with loading cranes
 - Snow plows



Rear-Engine PTO (REPTO)

COMPLIANCE

The DD13 is compliant with 2017 Greenhouse Gas (GHG17) requirements.

SERVICEABILITY

GETTING YOUR ENGINE SERVICED QUICKLY AND EASILY CAN MAKE A POSITIVE IMPACT ON YOUR TOTAL COST OF OWNERSHIP.

The DD13 can go up to 65,000 miles between oil drain, oil filter, and fuel filter changes. That's the longest scheduled maintenance interval in its class. And better yet, it's easy to keep an eye on those important maintenance items like the cartridge-style filters, which are conveniently located above the frame rails along with the oil fill. This makes it easy to replace the filters when it's time and to get you back on the road quickly.

When you need genuine parts and expert service, the Detroit support network will get you back on the road fast. The DD13 drives down your cost of ownership at every turn, sharing service procedures and many of the same parts as the DD15. And you are supported by the network: hundreds of authorized service outlets, an award-winning technician training program, an extensive parts distribution network, and expert engine support from our technical support center. Detroit combines all this to give you the genuine parts and expert service you need to succeed.

FACTORY-BACKED WARRANTY

Detroit engine owners enjoy comprehensive warranty coverage, including a fast, hassle-free process and expedited parts and service for critical downtime situations.

Maintenance Intervals*

Item	Mi/Km/Hr†	Severe-Duty	Short-Haul	Long-Haul	Efficient Long-Haul
Engine Oil and Filter Change**	Miles	35,000	40,000	55,000	65,000
	Kilometers	56,000	64,000	89,000	105,000
	Hours	750	1000	—	—
Fuel Filter Change	Miles	35,000	40,000	55,000	65,000
	Kilometers	56,000	64,000	89,000	105,000
	Hours	750	1000	—	—
Valve Lash Adjustment	Miles	Adjust at 100,000, at 500,000, and then every 500,000 thereafter.			
	Kilometers	Adjust at 160,000, at 800,000, and then every 800,000 thereafter.			
Diesel Particulate Filter	A check engine light will illuminate when ash requires removal. Normal DPF ash clean interval is:				
	Miles	500,000 to 550,000			
	Kilometers	800,000 to 860,000			
	Hours	11,000 to 11,500			
DEF Pump Filter	Replace filter every 3 years or 500,000 (800,000 km) miles, whichever comes first.				

* Maintenance intervals using Detroit Fluids Specification 93K222 (CK-4) or 93K223 (FA-4) Approved Oils.
 ** Recommended based on using Detroit's lube oil and oil analysis program.
 Severe-duty is up to 30,000 annual miles (48,000 kilometers) and a vehicle that averages less than 5 miles per gallon (mpg).
 Short-haul is between 30,000 and 60,000 annual miles (48,000-96,000 kilometers) and a vehicle that averages between 5.1 and 5.9 mpg.
 Long-haul is over 60,000 annual miles (96,000 kilometers) and a vehicle that averages between 6.0 and 6.9 mpg.
 Efficient long-haul is over 60,000 annual miles (96,000 kilometers) and a vehicle that averages greater than 7 mpg.
 † Fuel economy represents overall fuel economy (including idle time).
 † Miles/Kilometers or Hours, whichever occurs first.

Standard Warranty

Item	Warranty Limits (Whichever Occurs First)		Repair Charge (Paid by Owner)	
	Months	Miles/Kilometers	Parts	Labor
Engine	0-24	Unlimited	No charge	No charge
Injectors	0-24	200,000 mi 320,000 km	No charge	No charge
Upon expiration of the 24-month warranty coverage, but within 500,000 mi/800,000 km of use, the warranty continues to apply as follows:				
Major Components	25-60	500,000 mi 800,000 km	No charge	Not covered



DETROIT GENUINE PARTS

Authorized Detroit service outlets are staffed with factory-trained technicians who exclusively use Detroit genuine parts. Our technicians, graduates of our award-winning training program, know your powertrain inside and out. They're the experts who will make sure that, with normal maintenance at regular intervals, all components continue to perform at optimum power and efficiency for years to come. You can find expert technicians at hundreds of authorized Detroit service locations. Whether it's a new or remanufactured part, Detroit genuine parts precisely fit your engine, axles, and transmission, giving you the performance, reliability, and durability you count on from Detroit.

Detroit genuine parts are covered by a factory-backed nationwide warranty so you never have to worry about unexpected repair costs.

EXTENDED SERVICE COVERAGE

Detroit engine extended service coverage (ESC) takes care of tomorrow's costs at today's pricing, extending your factory on-highway coverage for up to five years/600,000 miles, or seven years/250,000 miles for vocational coverage. So, whether you need your engine serviced three years from now, or a major repair right now, your engine ESC helps protect your investment.

From covering basic engine components to complete coverage, including aftertreatment, our ESC packages fit your needs and your budget by providing:

- Service at hundreds of Detroit authorized service locations
- Repairs performed by certified technicians
- Unmatched availability of Detroit genuine parts
- Coverage throughout the U.S. and Canada
- Availability to purchase without a late fee for up to 12 months or for a nominal \$400 late fee between 13-18 months
- Ability to transfer coverage to subsequent owner, enhancing resale value

**UPTIME IS MONEY. THAT'S WHY
SERVICEABILITY IS ESSENTIAL TO ACHIEVE
A LOWER TOTAL COST OF OWNERSHIP.**



EMPOWERED BY DETROIT

Here at Detroit, we've built our reputation by building high-quality products that perform beyond expectations. Today, you'll find our engines in Freightliner® and Western Star® trucks on roads and at job sites around the globe.

The secret to our success goes beyond the engines we build. Our people and our continuous pursuit of innovation are powerful driving forces. Our engineering and manufacturing expertise are world-class. Our service network is expansive and responsive. That's why we continue to grow and evolve. That's also why we now offer a full line of products: engines, axles, transmissions, and advanced technologies. That's right. The company that makes the heart of the truck now gives you the arms, legs, and backbone to go with it. So, if you demand it all, demand Detroit.

DEMANDDETROIT.COM

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