

Life Cycle Cost Analysis-Heavy Equipment Tractor Loader Backhoe

Life Cycle Cost Anaylis - Heavy Equipment Tractor Loader Backhoe		Diesel Power Eq Co	Murphy Tractor & Equip. Co.	Titan Machinery
Line #	State Agency Data Use for Calculations			
1	Projected Number of Months in Service:	180	180	180
2	Projected Number of Hours of Operation per Month	8	8	8
3	Projected Total Number of Hours	1,440	1,440	1,440
4	Number of Maintenance Cycles Performed Per Year	1	1	1
5	Fuel Cost-per-Gallon: (Current eia-U.S. Energy Information Administration)	\$ 3.21	\$ 3.21	\$ 3.21
Net Cost				
6	Bid Price (Listed on ITB Line # 1)	\$ 54,768.00	\$ 59,604.00	\$ 60,947.00
7	Projected Salvage Value (Using Projected Total Hours & Projected Total Months)	\$ 30,000.00	\$ 28,900.00	\$ 30,000.00
8	Total Net Cost (Line 6 - Line 7)	\$ 24,768.00	\$ 30,704.00	\$ 30,947.00
Operating Costs				
	Fuel			
9	Estimated Fuel Use Rate (Gallons Per Hour)	2.1	1.4	1.25
10	Projected Number of Hours	1,440	1,440	1,440
11	Projected Total Gallons (Line 9 x Line 10)	3024	2016	1800
12	Fuel Cost-per-Gallon (Current eia-U.S. Energy Information Administration)	\$ 3.21	\$ 3.21	\$ 3.21
13	Total Estimated Fuel Cost (Line 11 x Line 12)	\$ 9,707.04	\$ 6,471.36	\$ 5,778.00
Estimated Maintenance Cost for Parts & Materials (Labor not included)				
14	Total Maintenance Cost	\$ 4,567.74	\$ 4,005.78	\$ 2,700.35
15	Total Operating Cost (Fuel + Maintenance) (Line 13 + Line 14)	\$ 14,274.78	\$ 10,477.14	\$ 8,478.35
16	Total Life-Cycle Cost (Net Cost, Line 8 + Total Operating Cost, Line 15)	\$ 39,042.78	\$ 41,181.14	\$ 39,425.35
17	Life-Cycle Cost Per Hour (Total Life-Cycle Cost divided by Total Hours) (Line 16/Line 3)	\$ 27.11	\$ 28.60	\$ 27.38

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Maintenance Cost Work Sheet								
Item No.	Total Maintenance Costs - Indicate materials necessary to provide maintenance for 5400 hours. (Subject to Add or Delete items for consideration)	No. of Maint. Procedures Performed During Life Cycle of	Vendor Supplied Cost for Material and/or Parts	Total Cost	Vendor Supplied Cost for Material and/or Parts	Total Cost	Vendor Supplied Cost for Material and/or Parts	Total Cost
1	Change engine oil and filter(s)	15	\$ 64.45	\$ 966.75	\$ 63.18	\$ 947.70	\$ 15.70	\$ 235.50
2	Replace fuel filter(s)	15	\$ 14.79	\$ 221.85	\$ 65.25	\$ 978.75	\$ 16.52	\$ 247.80
3	Lubrication of entire unit	15	\$ 3.40	\$ 51.00	\$ 3.84	\$ 57.60	\$ 3.35	\$ 50.25
4	Change transmission filter(s)	7	\$ 54.63	\$ 382.41	\$ 31.50	\$ 220.50	\$ 55.60	\$ 389.20
5	Change hydraulic oil filter(s)	7	\$ 93.12	\$ 651.84	\$ 62.00	\$ 434.00	\$ 43.24	\$ 302.68
6	Change engine air filter(s)	7	\$ 66.14	\$ 462.98	\$ 32.00	\$ 224.00	\$ 70.55	\$ 493.85
7	Change transmission oil	3	\$ 70.25	\$ 210.75	\$ 54.12	\$ 162.36	\$ 69.90	\$ 209.70
8	Change hydraulic oil	3	\$ 421.50	\$ 1,264.50	\$ 199.40	\$ 598.20	\$ 172.08	\$ 516.24
9	Change engine coolant	3	\$ 72.01	\$ 216.03	\$ 82.63	\$ 247.89	\$ 40.45	\$ 121.35
10	Change mechanical front axle oil	3	\$ 35.12	\$ 105.36	\$ 29.76	\$ 89.28	\$ 17.26	\$ 51.78
11	Replace engine belt(s)	1	\$ 33.37	\$ 33.37	\$ 27.90	\$ 27.90	\$ 29.00	\$ 29.00
12	Adjust engine valve lash	1	\$ -	\$ -	\$ 17.60	\$ 17.60	\$ 53.00	\$ 53.00
13	Vendor added procedures to be listed below as needed							
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Total Life Cycle Maintenance Cost (To be entered in Line 14)			\$	4,566.84	\$	4,005.78	\$	2,700.35

No Bid
Nebraska Machinery Co