	Α	В		2	D	E	F G
1					Life	cycle Cost Ar	nalysis - Vehicle Selection - Owned 3 yd. Front End Loader
2							FORMULA/SQUIRCE:
	7	Universal Variable Data Derived Values					
		et Months in Service:			Actual Months:	60	Actual Months in Service given the Maximum Replacement Hours and Hours-per-Month set by policy
		et Replacement Hours: ected Hours-per-Month:	<del></del>		Actual Hours:	3,000	Actual Hours at Replacement given the Maximum Service Months and Hours-per-Month set by policy
1	EXD	y Angual Interest Rate:			Dally Hours: Monthly Interest:	1.6 0.304%	Expected Average Hours-par-Month used: Average Daily Hours used given the Hours-ber-Month entered
13		e Overhead Fee (%):		0.00%		0.304%	Annual Interest Rate/12-months
		e Overhead Fee (Flat Rate):	•	V.0076			Figured from office overhead costs (salaries, administrative, etc.) (enter either a 46 flat rate—enter "0" in the one not used)
ů.		Depreciation Rate:	· · · ·	0.80%			Figured from office overhead costs (esiaries, administrative, etc.) (enter either a 66 fiat rate—enter "0" in the one not used)
		Cost-per-Gallon:	e -				Rate set by government entity for all capital/rolling stock items.
11	Cotto	nated Personal Use:	13.	1.90			Average price of fuel per gallon
12	Curr	ent Running Cost-per-Hour	s	0%			Percentage of personal use for which the employee reimburses the employer (enter 0 if you will not charge for personal use)
13	CUI	Bit Ruining Cost-per-riour	· •				Vehicle cost-per-hour, either from leasing companies or from actual experience
14			1.50	Later &		1 1 6	
			Loac	er A	Loader B	Loader C	Enter the vehicle models being analyzed
15		ulsition Cost					
16			\$ 14	000,000	\$ 139,000.80	\$ 145,000,00	Obtained from lessor, dealer or alternate source
16 17 18 18 20 21		Dealer Holdback Adjustment	ş		\$ -	\$ -	Obtained from lassor, dealer or alternate source - incentive portion normally given to dealer
18			\$			\$	Tax credit or incentive (AFV's, Cisan Air Credits, etc.) - enter only if appears on invoice.
<u>  18</u>		Mfg. Additional Incentive	\$			\$ .	Obtained from lessor, dealer or alternate source - added incentive for early order, etc.
120			\$			\$	Obtained from lessor, dealer or alternate source - special fleet discounts
21		Net Acquisition Cost	\$ 140,0	00.00	\$ 139,000.00	\$ 145,000.00	Factory Invoice Price - Dealer Holdback Adjustment - Mfg., Additional Incentive - Fleet Incentives (or value from leasing company)
22	Fixe	Net Acquisition Cost of Costs Effective Depreciation Projected Resale Price Number of Months Past Septembe. Price by Month Adjustment. Cost of Money Year 1 Year 2 Year 3 Year 4 Year 3 Year 4 Year 5 Cost of Insurance Management Fee Build Time Depart Cost Days Over Least Delivery Time Delivery Days AFV TAX CREDIT Mfg. Additional Insertive Total Flixed Cost:					
23	{	Effective Depreciation	\$ 74	336.00	\$ 73,500.00	\$ 70,726.00	Net Acquisition Cost - Projected Resale Price, OR Net Acquisition Cost - Price by Month Acquisitionnt
24	1	Projected Resale Price		65,664.00			Nest Supplies from Medite reside The ON Net Addission Cost - Fride by Month Appartment
25	1	Number of Months Past September				0	Number of morshs past optimum September replacement month
26	Ì	Price by Month Adjustment	\$	-		\$ -	Amended projected reside value based on number (of months past optimum replacement month of September
27	Ī	Cost of Money		.520.20			Cost of Money not invested for rate of return. (Year 1 interest + Year 2 interest + Year 3 interest + Year 4 interest + Year 5 interest)
28	. [	Year f	\$	4,885.15		\$ 5,059.63	(Net Vehicle Cost "Year 1 Interest Factor)" Year 1 Total Months) (see table in lower left of sheet)
29	ľ	Yasr 2	\$	4,394.60		\$ 4,551.55	(Net Vehicle Cost * Year 2 Interest Factor) * Year 2 Total Months) isses table in lower left of sheet; subtract all months from previous years]
30		Year 3	\$	3,904.04	\$ 3,876,15	\$ 4,043,47	(Net Vahicle Cost Year 3 interest Factor) * Year 3 Total Months) issertable in lower left of street, subtract all months from previous years
31		Year 4	\$	3,413,49	\$ 3,389.10	\$ 3,535,39	(Net Vehicle Cost * Year 4 interest Factor) * Year 4 Total Months) (see table in lower lief) of sheet; subtract all months from previous years)
32		Year 5	\$	2,922.92	\$ 2,902.04	\$ 3,027.31	(Net Vehicle Cost * Year 5 Interest Factor) * Year 5 Total Months) [see table in lower left of sheet; subgrad all months from previous years]
33	[	Cost of Insurance	\$	742.00	\$ 73670	\$ 768.50	Net Acquisition Cost /100* 106/12*60.
34	[	Management Fee	\$	-	\$ -	\$	Management Fee * Net Acquisition Cost * Actual Months in Service or Flat Rate Management Fee
35	[	Build Time Delay Cost	\$		\$ .	š .	The current cost of owning and maintaining a vehicle anyway until new unit comes in based on cost per mile, daily mileage, and days over least delivery time.
36	[	Days Over Least Delivery Time		C	0		Calendar dave over least amount of delivery time of any of the three selected vehicles.
37	1	Delivery Days		0.	0	0	Calendar days for guaranteed delivery (enter 10 M does not apply or there is no added cost to provide transportation white awaiting delivery)
38	Ī	AFV TAX CREDIT	S	-	2	\$ -	IRS Tax Credit
39	. [	Mfg. Additional Incentive	\$		š -	\$ -	Insentive paid directly to the fleet
40	_	Total Fixed Cost;	\$ 94.5	98.20	\$ 93,617,47	\$ 91,711.85	Actual Depreciation + Interest + Management Fee + Build Time Delay Cost
141	One	rating Costs	·		<b>*</b> ,-,,,,	4 - 417 1 1 1 1 2	Provide Delph estation * * Markey Guillen 1   Ce * Doubt   Tillie Delay (Cost
17			\$ 1	,140.00	\$ 1,286.67	\$ 950.00	
12	. H		<b>y</b> ,	,140.00		950.00	(Actual Hours/Estimated Hours-per-Gation) * Fuel Cost-per-Gation
44 45	-	Estimated gations per hour Total Maintenance Cost	\$ 26	871.00	7.0	9	Value from EPA Estimated City Mileane or actual experience
12	-		\$ 25 \$	8.9870			Actual Hours* Estimated Maintenance Cost-per-Hour
48	L						Value from leasing company or actual experience [may add separate lines for Collision Loss/insurance, prorated license, and rental costs while vehicle is down]
		Total Operating Cost:	<b>₹ ∠8,</b> (	711.00	<b>⇒</b> 28,703.67	\$ 22,502.00	Total Fuel Cost + Total Maintenance Cost
47		sonal Use Costs					
48		Fixed Cost for Personal Use	\$	-	\$ -	\$ -	Total Fixed Cost * Estimated Personal Use
49			.\$	-	\$ -	\$ -	Total Operating Cost * Estimated Personal Use
50	_		\$			\$ -	Fixed Cost for Personal Use + Operating Cost for Personal Use (amount to be reimbursed to employer by employee)
51		4-1			··	·	
	Tota	il Lifecycle Cost:	\$ 122 6	06 20	\$ 123,321.14	\$ 114 243 PE	This Board Coate Table Coasting Coate Table Coasting Coate Table Coasting Coate Coat
		cycle Cost-per-Hour:					Total Fixed Cost + Total Operating Cost - Total Personal Use Cost
	-116	cycle Cost-bet-Hour:	<b>¥</b> 40	.008/	\$ 41.1070	\$ 38,0713	Total Lifecycle Cost / Actual Houre
54							
55		se Summary					
56 57	L	Book Depreciation (Reserve)		.200.00			Actual Purchase Price * (Book Deorgojation Rate * Actual Months)
57				,720.20			Reserve For Depreciation + Interest + Management Fee (total cash outlay to leasing company to cover capitalized cost)
58		Depreciation Adjustment (TRAC)	\$ 7	,136.00	\$ 6,780,00	\$ 1,126.00	Net Acquisition Cost - Book Depreciation - Projected Resale Price (Terminal Rental Adjustment Clause)
59							
	Αпл	ual Cost of Money Calculation	s - Step	Rate F	ormula		Cost of Money that entity loses by paying in cash for vehicle vs. Investing total amount and paying morthly for a lease.
	Γ	Holding Period		tonths	Book Value	Interest Factor	A PARTIE IN TRANSPORT OF INTERNITY COLORS GIVE SUIVABLE GIVE PREFIT YOUR IN IS ISSUED.
62	- 5	Year 1		12	0.96600	0,2908%	Book Value=1-(((1-1)+(12-1))/2)* Book Depresiation Rate; Interest Factor=Book Value*Monthly Interest
63	. F	Year 2		24	0.86000	0,2818%	Sout value : (x(1:-1x(2-1)x(2) Door Depression rate, Interest Factor Book Value Monthly Interest  Book Value : (x(13-1)x(2-1)x(2) Book Depression Rate; Interest Factor Book Value Monthly Interest
61 62 63 64 65 66		Year 3		36	0.76400	0.2324%	South values 11(0) 12-127-124-121(2) Doub Lepresiation Rate; Interest Factor-Book Value Monthly Interest Book Values 11(0) 12-127-124-121(2) Doub Lepresiation Rate; Interest Factor-Book Value Monthly Interest Interest 11(0) 12-127-124-121(2) Doub Lepresiation Rate; Interest Factor-Book Value Monthly Interest
65		Year 4		48	0.66800	0,2032%	Book Yaluse 1:0(37-1)4-69-11/2: Book Depression Rate: Interest Factor-Book Valuse Monthly Interest  Book Yaluse 1:(0(37-1)4-68-11/2): Book Depression Rate: Interest Factor-Book Valuse Monthly Interest
66		Year 5		60	0.57200	0.1740%	Book Value: 1((4):1) PM-91-11(4) EVAN CENT EVANON RESE, INSERSE FACTOR BOOK Value* Monthly Interest Book Value: 1((4):1) PM-01-11(2): Book Center EVANON Rate; [Interest Factor Book Value* Monthly Interest
		<del></del>		791	2.2.2VV	V-11-40 70	

## Wheel Loader Life Cycle Cost Bid Form:

ltem No.	Est. Descr Qty.	iption	Unit Price	Total Price
=====	2=====		========	
1.		Wheel Loader Purchase Price	\$ 140,000	\$280,000
		Yr/Make/Model		
2.		Trade In Price / Offer	\$_75\00	<u> \$ 150000</u> -
3.		Total Maintenance Costs	\$ 1959.75	+ 02,618
		(From Scheduled Maintenance Calculation Fon	m Attached)	
4.		Maximum Repair Costs (Extended Warranty)	\$_5(\( \)	\$ 10,000 t
		(5 Years / <u>308</u> Hours)		
5.		Residual / Salvage Value	\$ 6500	<u>\$ 130,000</u> -
		<u>5</u> Years / <u>3,000</u> Hours)		
		Total Bid Price (1 – 2	+ 3 + 4 - 5)	<u>\$ 13919</u> :50

Cost per Change						= \$	59.50
Total Hrs. Operation		Service Interval	×	Cost Per Change		= Total C	ost (E)
F. Parking Brake Se refill interval. Insert th total cost for a Parkin	us noi	ırıy number, inse	rfacturer's rt the tota	s maintenance manua al capacity (in gallons)	ıl determine the ) and perform th	Parking Br e calculation	ake drain and on to arrive at the
Total Hrs. Operation		Service Interval	×		Cost per Gal. al) x \$6.75	= Total C	ost (F)
G. Cooling System: interval. Insert this ho cost for a cooling syst	uriy n	umber, insert the	er's maint total cap	enance manual deter eacity (in gallons) and	mine the cooling perform the cal	g system's culation to	drain and refill arrive at the total
Total Hrs Operation	÷	Service Interval	x	Cooling System Cap	p x Cost per Ga ll) x \$6.75		Total Cost (H)
H. Engine Vibration Damper replacement to arrive at the total co	interv	al (If Required).	Insert this	er's maintenance mar hourly number, inser per service.	nual determine t t the labor cost	he Engine and perfon	Vibration n the calculation
Total Hrs. Operation		Service Interval	x	Labor Cost		= Total Co	• •
ΓΟΤALS: (Per one (1 each category in the s	) unit	) Listed below ar provided and ad	e each of d the colu	f the categories just ca	alculated. Insert	the total n	umber of
				A. Grease Fittings B. Engine Oil and Fil C. Transmission Oil D. Hydraulic System E. F&R Axle Oil Cha F. Parking Brake Oil G. Cooling System O H. Engine Vibration I	n Changes inges Changes Changes	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0500 500 500 500 1.50
				TOTAL SCHEDULED MAINTENANCE COSTS:			
					;	\$ <del>. 29 °</del>	42.75

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## Wheel Loader Scheduled Maintenance Calculation Form:

instructions: The intent of this form is to determine the total scheduled maintenance costs that can be expected during the first (Coo) hours of ownership (Operation). Service intervals, number of grease fittings, and capacities should be taken directly from the manufacturer's lubrication and maintenance manual. Unit costs given are equal for all vendors. Although there may be a slight variance due to refill capacities, these total costs are made up or labor, overhead, lost production, gaskets, lubricants, filters, and supervisory time. The comparison examines the service intervals for the various units bid and assumes that the manufacturer's recommendations, if followed exactly, will allow the costs that are to be incurred on each unit, to be calculated with reasonable accuracy.							
A. Grease Fittings: (Per one (1) unit) Determine the number of fittings at each interval, Insert each calculations and total in the last column.	nch number as indicated (if none, write none). Perform						
	of Fittings						
B. Engine Oil & Filter: From manufacturer's maintenance manual determine crankcase drain and refill interval. Insert this hourly number and perform the calculation to arrive at the total cost for an engine oil change.							
	= \$ 33.75 + = \$ 15.00 + = \$ 30.50 + = \$ 81.25 + = Total Cost (B) = \$ 975.00						
C. Transmission Oil: From manufacturer's maintenance manual determine transmission drain and refill interval. Insert this hourly number and perform the calculation to arrive at the total cost for a transmission oil change.							
	= \$ 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
<b>D. Hydraulic System:</b> From the manufacturer's maintenar refill interval. Insert this hourly number, insert the total capa total cost for a hydraulic system service.	nce manual determine the hydraulic system's drain and city (in gallons) and perform the calculation to arrive at the						
Number of Gallons x \$ 6.75 / Gallon Current Cost of Filters Fixed Cost (Time x Agencies Labor Cost / Hr) \@ (\$ \leftarrow \infty \inft	= \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
E. Front & Rear Axle Oil: From the manufacturer's mainte	mance manual determine the Avieta drain and setu						

interval. Insert this hourly number, insert the total capacity (in gallons) and perform the calculation to arrive at the total

cost for an Axle service.

Number of Gallons x \$ 6.75 / Gallon Fixed Cost (Time x Agencies Labor Cost / Hr)