

1999 Freightliner FL80
MW9784

Work Order

Received	Work Order #
10/15/2020	

Name / Address

Ship To

Total Repair Cost \$26,045.27

Work Done By	Sales Contact	VIA	Completed Date	
			11/17/2020	
Customer Contact	Machine	Purchase Order		
	99-04V-6789 Vactor 2110-J6 #T 106			
Part Number	Description	Qty	Price Each	Total
Work Order Unit info	<p>Vactor 2110-J6 S/N 99-04V-6789 Unit # T 106</p> <p>Miles 36,816 Hours 8,273 Aux./Fan Hours 1,495</p> <p>Customer In Date: 10/15/2020 Customer Out Date: 11/17/2020</p> <p>Issues: - no water at water pump ?? - test unit for good operation and access any needed repairs and advise customer before we add HXX kit and acc'y see Quote #4223 as customer purchased unit at auction and got upper engine running and has replaced some valves</p>			

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	Progress Log: - customer to deliver on low boy - 10-14-2020 customer drove unit here on FL 6x4 chassis - 2 stage JD - no multi-flow			
1001857-100	RIPSAW #10.0 ROTATING NOZZLE	1		
1405-12-12 (4...	ADAPT, HYD, 12NPTFX12NPTF SWV ST	1		
1405-16-16 (4...	ADAPT, HYD, 16NPTFX16NPTF SWV ST	1		
1501-12-16	MALE TO FEMALE 90*; 3/4 M NPT X 1 SWF NPT 90	1		
1501-16-16	MALE TO FEMALE 90*; 1 NPTF SM X 1 NPSM SWF 90	1		
16347AB-30	PIN, COTTER, 3/16X1, 316 SS	2		
20188A-30	FEMALE COUPLER 1/2" FNPT BRASS	2		
20188L-30	QUICK CONNECT X 1/2NPT FEMALE	1		
20188M-30	MALE DISCONNECT 1/2NPT FEMALE	1		
20188N-30	MALE DISCONNECT X 1/2NPT MALE	1		
20188N-30	MALE DISCONNECT X 1/2NPT MALE	2		
20189C-30	MALE COUPLER 1/2" FNPT	1		
20189D-30	MALE COUPLER 1/2" MNPT	1		

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20366-30	HOSE NIPPLE 3" COMBINATION	1			
20907-30	CLAMP	1			
20909-30	HOSE CLAMP 1/2"INSULATED	1			
2404-12-12	1-1/16-12 JIC M X 3/4 MP	1			
2501-12-12	90 Degree MPLC JIC x Male NPT	1			
2502-4-4	7/16-20 X JIC M X 1/4 F PIPE (ADAPTER FITTING FOR 45277D)	1			
25268Y-30	NOZZLE TUBE ASSY, 8"X80", RUBBER, HXX	1			
29640-30	O-RING, 3.359"ID, 0.139"CS, #237 (FOR 3" CHECK VALVE 507349-30)	4			
29826C-30	ADAPT, HYD, 4ORB HEX HEAD PLUG	1			
31685-30	FINNED PIPE WELD, 1X12, NARROW	1			
36114A-30	BODY WASH OUT HEAD (NOZZLE)	1			
40019A-30	VALVE - LEVER GATE 3" BRONZE	1			
40022-30	PIPE NIPPLE, 3 X CLOSE	2			
40022AA-30	PIPE NIPPLE - 3 X 22" T.B.E.	1			
40029-30	RELIEF VALVE, WATER, 700 PSI	1			
40030-30	BALL VALVE - 1/2" MINI	1			
40052B-30	SWIVEL JOINT, 1	1			
40585B-30	72G 15*SAND NOZ. REPLACES 44234	1			
40759-30	FORGED STEEL COUPLING 1" NPT	1			
40787-30	TARP STRAP, W/S HOOKS, 10	19			
40797-30	WASH JET	3			

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40797A-30	HIGH PRESSURE WASH NOZZLE	5		
41269-30	CAPS 3"	1		
41271-30	CAP GASKET / FOR 3" Y-STRAINER	1		
41272-30	CAGE GASKET / FOR 3" Y-STRAINER	1		
41771-30	O-RING 1/2 X 11/16 X 3/32 DIA	1		
44861L-30	PENDANT CONTROL 7 BUTTON VAC R	1		
45277D-30	HYDRAULIC PRESSURE SWITCH (ALSO REQUIRES 2502-4-4 FITTING and 20907 CLAMP)	1		
45378-30	SOLENOID VALVE	2		
45378-30	SOLENOID VALVE	1		
45556A-30	SEAL KIT FOR 45556	1		
45731-30	EXPANSION PLUG 2"	4		
45808-30	HALF COUPLING - 1" - ALUMINUM	1		
45809-30	HALF COUPLING, 3/4, AL	1		
45809-30	HALF COUPLING, 3/4, AL	1		
45825-30	HOSE - WATER 2 INCHES BULK	10		
45952-30	SENSOR - LIQUID LEVEL SENSOR	1		
45960-30	HALF COUPLING - 1/2" ALUM	1		
45960-30	HALF COUPLING - 1/2" ALUM	1		
46136-30	CAP / FOR 2" Y-STRAINER	1		
46137-30	CAGE GASKET / FOR 2" Y-STRAINER	1		
46138-30	CAP GASKET / FOR 2" Y-STRAINER	1		

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46172-30	TRAILER CONNECTOR,FEMALE	1		
46438LC-30	GASKET	1		
46438ZL-30	HOSE REEL ASSY W/ HOSE 1/2X50 NEW STYLE	1		
46516A-30	TOGGLE BOLT CLAMP	2		
46581-30	BALL VALVE - 3/4" 5000 PSI	1		
46688-30	RELIEF VALVE 1", 2000 PSI	1		
46846D-30	GAUGE,PRESS,0-5000PSI,VACTOR L	1		
47049RK-30	DRAIN HERE	1		
47480-30	FLOW CONTROL VALVE,AIR,1/8 NPT	2		
47550-30	CONTROL VALVE - 3 WAY	1		
47578D-30	FLUID CPLG OIL,2.5 GAL	1		
47772-30	ELECTRONIC THROTTLE SWITCH	1		
47801-30	BUSHING - KEYLESS TAPERED 1/2"	2		
48105-30	ELBOW,90*,AIR,PUSH-IN,1/4TUBEX	2		
49035BGB-30	NOZZLE, COMMANDOR, 1", 65@2000	1		
500272A-30	FLOAT BALL SCREEN,PERF PPE	2		
500619Z-30	HXX DIGGING LANCE ASSY	1		
504228B-30	MOUNT PLATE,HAND GUN,HOSE REEL	1		
507349-30	CHECK VALVE, 3"	2		
52846-30	FLEXIBLE HOSE GUIDE ASSEMBLY	1		
53698-30	DECAL,L-032,INFO,DRAIN HERE	13		
5404-12-12 (4...	ADAPT,HYD,12NPTX12NPT STR	1		
5404-16-16 (4...	ADAPT,HYD,16NPTX16NPT STR	1		

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5404-16-16 (4...	ADAPT, HYD, 16NPTX16NPT STR	2		
5404-8-8	1/2 MP X 1/2 MP ADP	1		
5406-12-8	3/4 MP X 1/2 FP BUSHING REDUCER	1		
5406-12-8	3/4 MP X 1/2 FP BUSHING REDUCER	2		
5406-16-12	1" X 3/4" BUSHING	1		
5406-16-16	1" X 1" BUSHING	1		
5406-16-8	1 MP X 1/2 FP REDUCER BUSHING	2		
5406-20-16	1-1/4 MP X 1 FP PIPE ADP	1		
5602-12	3/4" SERVICE TEE	1		
5602-12	3/4" SERVICE TEE	1		
5602-8 (16475...	1/2 MP X 1/2 FP X 1/2 FP TEE	2		
62463-30	FLOAT BALL CAGE SHROUD	2		
62468-30	2 WIRE CONNECTOR ASSEMBLY	2		
63715F-30	FLOAT BALL CAGE WELD, STL	2		
6500-8	1/2 F SW X 3/4-16 JIC 90 ELBOW	1		
6502-8	3/4-16 M JIC X SWF JIC 45 ADP	1		
65741-30	BALL VALVE MOUNTING PLATE	1		
67082AA-30	ADAPT, HYD, 8JICX8NPTX4ORB	1		
67082AA-30	ADAPT, HYD, 8JICX8NPTX4ORB	1		
69076A-30	LOVEJOY COUPLING	1		
82835-30	VALVE PLATE WELD - BUTTERFLY V	1		
82946C-30	ELBOW WELD - BUTTERFLY VALVE	1		
86248A-30	FLOAT ARM WELD	1		

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89994-30	PLATE, REINFORCING BAIRD RELIEF	1			
00279214	HYDAC DV-12-01.X/5 DIRECT ACTING	1			
	HYDRAULIC NEEDLE VALVE, HYDRAULIC				
	ACTUATION , 80GPM MAX. FLOW RATE, PORT				
	SIZE: 1/2 NPT				
662-0298	GIANT UNLOADER VALVE, 32@3000, 1"	1			
BVK-1	Ball Valve Drain Kit	1			
DECAL	DECAL	30			
Fabrication	Aluminum Reinforcing Plate	1			
Fabrication	CUSTOM HYDRAULIC HOSE				
FJ9121-1616S	1" M/NPT OTC FIELD CRIMP FITTING	2			
FJ9122-0808S	1/2" F/JIC OTC FIELD CRIMP FITTING	6			
FJ9122-1212S	3/4" F/JIC OTC FIELD CRIMP FITTING	2			
Freight	Freight In				
HOSE-HYD-1/2...	1/2" X 48" HYD HOSE	1			
HOSE-HYD-1/2...	1/2" X 36" HYD HOSE	1			
HOSE-HYD-1/2...	1/2" X 15" HYD HOSE	1			
HOSE-HYD-1x...	1" X 36" HYD HOSE	1			
HOSE-HYD-3/4...	3/4" X 72" HYD HOSE	1			
HX-101-PKG	Hydro-Excavation 1 Port Package	1			
HX-103-PKG	Hydro-Excavation 3 Port Package	1			
OIL-80W/90-1	80W/90 GEAR LUBE	1			
OIL-HYD-15W	ISO 46 15W HYDRAULIC OIL	2.5			

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Shop Parts	1-1/2" CLAMP	1		
Shop Parts	AIR BRAKE TUBE	4		
Sublet Parts	Fittings	1		
Labor	-Added 3" gate valve to rodder pump inlet before Y-strainer. -Body washout plugged. Replaced all jets and manifold. -Added HXX kit to include Giant unloader, need valve, Baird relief, hose reel mounting and plumbing, digging lance assembly, HXX dig tube, and three HXX nozzles. -Checked and adjusted tire PSI 11/16. -Replaced handgun relief and adjusted. -Replaced missing operation labels and weather drain area decals. -Vacuum relief elbow patched heavily and appears to be different styles. Replaced vacuum relief elbow and rebuilt to get operational to protect fans. -Ground rust build up from Y-strainer housings to ease in filter removal. Installed and replaced incorrect clamp adjustment bolts.	70.5		

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Part Number	Description	Qty	Price Each	Total
	-Ground rust from fan housing drain ports so drain plugs can be installed and removed to clean fans. -Vacuum relief flap stuck in open position and will not move, very thin. Replaced and adjusted for correct operation to protect the fans. -Wired pendant inoperable. Buttons so stiff they will not depress. Replaced assembly. -Tested vacuum system. OK. 13.5" and max 2500 RPM. Hose blocked. No vibrations. Turned RPM down to 2400 max RPM. Note: unit has air controlled auxiliary throttle. -Low water light on reel inoperable. Replaced bad switch and indicator bulb -Handgun hose reel seized. Customer has replacement spring in toolbox. Installed and repaired. -Missing handgun quick disconnect fittings. Replaced. -Replaced worn water tank vent hoses and 90* fittings added to get water away from hydraulic tank inlet cap.			

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	<p>-Missing float ball arm and ball for level indicator, laying in body broken. Replaced.</p> <p>-Replaced both float ball cages, screens, and shrouds; one was broken off. Replaced to protect fans.</p> <p>-Pressure light on reel comes on at 1400 PSI and switch leaks hydraulic oil a lot. Replaced and set for max 2500 PSI.</p> <p>-Only getting 2400/2500 max water pressure at reel. Adjusted main relief to get 2600/2650.</p> <p>-Debris body safety prop pin needs lubed and freed up. Lubed and freed.</p> <p>-Jetter hose on reel very very loose. Pulled off and straightened for proper testing. Unit has approximately 600' of Piranha hose.</p> <p>-Front hose reel control valve leaks from speed control valve and spool valve O-ring seals. Resealed.</p> <p>-Blew ½" hose at rodder pump to remote drain valves while testing. Replaced with direct-mount ball valve drains.</p> <p>-Replaced worn cap and gaskets on 3" strainer</p>			

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	at pump. -Replaced worn cap and gaskets on 2" strainer at fill. -Replaced one bad water pressure gauge for test. -Replaced upper hose reel swivel for being very worn out and miscellaneous worn fittings, for proper testing. -Air leak from front pinch roller air switch. Replaced switch. -Water leak from 3" close nipple and 3" king nipple at pump suction plumbing. Replaced worn plumbing and worn intake check valves to pump. -Checked chassis engine and transmission fluid levels. OK. -Checked auxiliary John Deere engine fluid levels. OK. -Checked fan transmission oil level and condition. OK. Serviced complete. -Checked fluid coupling oil level. OK. Serviced complete. -Greased PTO shaft slip joint.			

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Part Number	Description	Qty	Price Each	Total
	-Replaced pipe rack bungees. -Added jet nozzles, tiger tail, and nozzle pipe. -Topped off hydraulic oil in tank. -Drained unit for freezing weather and storage.			

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	<p>ADVISE CUSTOMER:</p> <p>-Remove front gravity plumbing from body to front bumper and add hose barb, 3" lay-flat hose, and hose basket to allow to decant on right-front of body.</p> <p>-Rear door decant missing screen in body and valve plugged and stuck. Needs to be opened up and cleaned.</p> <p>-Hose in false wall on ear door, cracked along corner, and filling rear inspection hatch with debris where lock cylinder is located. Inspection port access needs cleaned out and door repaired.</p> <p>-Right hand marker light bracket broken.</p> <p>-Tested hydraulic tool package: 4 GPM @ idle; 8 GPM @ 1500 PSI, 1500 RPM; 10 GPM @ 1500 PSI, 2200 RPM.</p> <p>-Wear hole in debris body at air duct false wall. Advised customer; customer to repair.</p> <p>-Wear hole in top of body at wear plate for debris inlet pipe. Unit is 68" low profile, 10-12 yards. Customer to repair.</p>				

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	<p>-Jet rodder system accumulator comes in at about 1100 PSI.</p> <p>-Removed fan housing inspection plugs and checked over. Fans have little wear, appear newer. Bell housing and transmission mounts have been welded on a lot. Transmission appears to have been rebuilt/resealed. Fans seem to have rubbed at some time but do not rub now and run smoothly.</p> <p>-PTO slip joint beginning to get some slop.</p> <p>-Recommend service fan transmission at 1595 hours.</p> <p>-Unit has 1800 gallons of fresh water, 30" tanks.</p> <p>-Replace corroded body level indicator stop in body. Customer to do.</p>			

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Shop Fee	Shop Supplies Fee Work Order Subtotal Illinois Sales Tax			
			Subtotal	\$26,065.27