



Shop Order-00-10-15: Unclassified

Rural Community of Upper Miramichi
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Exp. Date: 12/18/2016
Quote No: JUPNB-0009
Job/Order No: 19501

BODY: 00-10-15 Metalfab Pumper - ULC 05/13

09/11/2017

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PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
			CHANGE ORDER C	1	MTL
00-10-1500			Metalfab Pumper E	1	MTL
00-20-1000			Company Profile E	1	MTL
00-20-1500			Standard Body Warranty	1	MTL
00-20-1550			Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
00-20-1700			Hale Pump Warranty - 5 years	1	MTL
00-20-1800	S		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2100	S		Plant Inspection Visits	3	MTL
00-20-3000			No Bonding Required	1	MTL
00-20-3500			Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000			Quality System registered to ISO 9001:2008	1	MTL
00-20-4500			Fire Apparatus Manufacturers' Association Membership	1	MTL
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent E	1	MTL
10-11-0105			Vehicle Data Recorder not requested	1	MTL
10-11-1100	S		ELC S515-13 Compliance	1	MTL
10-11-1500		>	ULC Testing - Pumper	1	MTL
10-11-2100	S		Maximum length - 32' or 384"	1	MTL
10-11-2200			Maximum height not specified E	1	MTL
10-11-2400			Overall length is 30' or more	1	MTL
10-11-2500			General Construction	1	MTL
10-11-2600	S		Preconstruction Meeting at Upper Miramichi fire hall	1	MTL
10-11-3000			Manuals - two copies	1	MTL
10-11-3600	S	< >	Delivery - FOB Fire Department	1	MTL
			Training to be a full day		
10-11-4000			Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1000			Hose bed capacity - standard ULC Pumper	1	MTL
10-20-2000			Equipment carrying capacity - standard ULC Pumper	1	MTL
			CHASSIS INFORMATION	1	MTL
20-11-1000	S	<	Chassis supplied by Metalfab	1	MTL
			2 door Freightliner M2 112		
			GVWR 62,000 lb 16,000 lb front axle 46,000 lb rear axle		
			224" Wheelbase, 158.45" Calculated back of cab to rear suspension center line		
			Cummins L9 450 hp @ 2100 rpm, 2200 rpm Governed, 1250 lb/ft of torque @ 1400 rpm		
			Allison 3000 EVS automatic transmission, 275 Amp alternator		
			189 liter fuel tank, LH		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			Polished aluminum wheels with trim supplied by dealership		
			ESC		
			Color is Harvest Red - L5994EB Elite BC		
			Paint spray outs have been approved by the Customer		
20-11-1500			2013 Emission chassis modifications	1	MTL
20-11-1700	S		Chassis Motor Vehicle Inspection required - NB	1	MTL
20-21-0500			Fluid capacity plate	1	MTL
20-21-0600			Pumping test plate	1	MTL
20-21-1010			Maximum riders sign - 3 persons	1	MTL
20-21-1500			Seat belt warning labels - 2 door chassis	1	MTL
20-21-1540			Tire Pressure Indicators - Tandem Axle	1	MTL
20-21-1600			Apparatus Information Label	1	MTL
20-21-2000			Non removable key	1	MTL
20-21-2500			Shifter lock not required E	1	MTL
20-21-3500			Rear step warning label	1	MTL
20-21-3810			Front mudflaps provided with chassis	1	MTL
			E		
20-21-4000			Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0500			Alum tread fuel tank trim, Conv - 2 door	1	MTL
20-31-1900			Chassis cab not painted E	1	MTL
20-41-0600			Intake air shutoff for engine not required	1	MTL
20-41-0900			Auxiliary braking system disabled when pumping	1	MTL
20-41-1100			Transmission programming - Allison WT	1	MTL
20-41-1500			Extend exhaust pipe - RS front of rear wheels	1	MTL
			E		
20-41-1900			Battery boost terminals with chassis	1	MTL
			E		
20-41-2000	<		Chassis batteries remain in OEM location	1	MTL
			LH side under the chassis cab		
20-41-2510			Fuel fill at step fuel tank under cab	1	MTL
20-41-2600			Chassis fuel tank remains in OEM location	1	MTL
20-41-5100			Rear Tow Hook - pintle hook E	1	MTL
20-41-5500	S		ON SPOT Automatic traction chains	1	MTL
20-51-0710			Master Battery Disconnect included with Freightliner chassis	1	MTL
20-51-2500			Back up alarm included with chassis	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-3500			Air outlet	1	MTL
20-51-4000			Auto eject for air inlet - LS	1	MTL
20-51-6200	S	>	120 volt 20 A shore line connection in chassis cab	2	MTL
20-51-6500			Kussmaul Autocharge 1000 battery conditioner w/battery saver	1	MTL
20-51-7100			Electric System Manager	1	MTL
20-51-7500			Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
20-51-85AA	U	<	LED engine compartment light	1	
			An LED light is installed to meet ULC requirements, illuminated when park brake is applied		
20-51-9001	S		Air horns and controls as supplied by chassis OEM	1	MTL
20-52-3500		>	Chassis steering wheel lined up by Metalfab	1	MTL
			E		
20-60-0400			Chassis wheelbase does not change	1	MTL
			PUMP AND PLUMBING	1	MTL
30-11-5600			Hale QFLO Single stage 1050 IGPM	1	MTL
30-12-3300			Mechanical seal for Hale QFLO/QPAK pumps	1	MTL
30-15-0103			Plumbing - Hale manifold pump SM	1	MTL
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1001			Valve brand not specified E	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-20-1500			Piping galvanized steel - general	1	MTL
30-20-1700	S		1-1/2" thread specifications - Storz	1	MTL
30-20-1800	S	<	2-1/2" thread specifications - Storz	1	MTL
			Install Storz adapters and caps on all 2-1/2" discharges except two RS water only. These discharges will be threaded (3" X 8" unless otherwise specified) with a threaded cap, and the Storz adapter will be shipped loose. This will make it easy for firefighters to know which lines are water only.		
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2505			Anodes in suction and discharge piping not requested	1	MTL
30-21-9500			Tank to Pump 4" Ball valve, handwheel control with check valve manifold pump	1	MTL
30-22-0500			Tank Fill valve 2"	1	MTL
30-31-4010	S		Suction - 6" each side manifold pump	1	MTL
30-31-6020	S		Suction - 5" galv piping to rear - handwheel control - 6" connection E	1	MTL
30-31-7100		>	Hale master intake suction valve - handwheel control	3	MTL
30-32-7500			Suction - 2-1/2" left side, bleeder, Hale manifold pump	1	MTL
30-41-2000	U		Price Adjustment	1	
30-41-2000	S	<	2-1/2" RS discharge, bleeder, Hale manifold pump	3	MTL
			One discharge to be foam capable. This discharge will have the storz adapter and storz cap installed.		
			Two discharges to be water only, plumbed directly to pump. These discharges will have threaded caps, storz adapters to be shipped loose.		
30-41-2500			2-1/2" LS discharge, bleeder, Hale manifold pump	2	MTL
30-43-1500			2-1/2" rear discharge, plumbed 2-1/2", bleeder	2	MTL
30-44-8500	S	< >	Hose reel, 1" X 200', nozzle, electric - mounted on pump house	1	MTL
			Hose reel is centered in the open storage area over pump house.		
			Install rollers on both side of the body.		
			Install electric rewind switch on both sides of body		
			Nozzle is Akron 4802 pistol grip type. 13 GPM at 100 PSI.		
			Metalfab part number 1500486.		
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-6800			FRC InControl Governor/Throttle engine display with throttle knob	1	MTL
30-51-7000			Suction side relief V/V, manifold pump	3	MTL
30-51-7700			Primer Hale oil less ESP with oil tank Hale	1	MTL
30-51-7800		<	Pre Primer for gated suction Hale primer	3	MTL
			Left, right and rear suctions		
30-51-8100			Heat exchanger included with chassis	1	MTL
30-52-1000			Master drain V/V, 12 port	1	MTL
30-52-2000			Drain valve for foam system header	1	MTL
30-52-4210	S		Foam System - Hypro FoamPro 2002 Single Tank	1	MTL
30-52-9100			Foam concentrate label at foam tank fill	1	MTL
30-52-9200			Foam System Instruction Plates	1	MTL
30-52-9400			NFPA Foam System certification test	1	MTL
			WATER AND FOAM TANKS	1	MTL
40-11-2100	S		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7000	S		Tank capacity 2000 Imperial Gallons	1	MTL
40-12-5101	S		Foam cell - 40 Imperial Gallons	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
40-21-1000			4" tank to pump connection	1	MTL
40-22-0500			2" tank fill connection	1	MTL
40-23-0500			1" water level gauge connection	1	MTL
40-23-1040			4" direct fill connection	1	MTL
40-23-1060			10" Newton dump connection	1	MTL
40-30-0500			Sump drain valve (3" gate valve) with linkage E	1	MTL
40-30-1100			Water Fill Box middle left side	1	MTL
40-31-3500			10" rear Newton dump, stainless steel	1	MTL
40-31-3600			Newton dump - stainless steel 36" telechute	1	MTL
40-31-4700			Newton dump, top mount manual operation	1	MTL
40-31-5600	U	<	SS Swivel dump chute (rotating with lock) SOPT 2	1	
40-31-8000			4" Storz rear gtd fill	1	MTL
			ELECTRICAL	1	MTL
50-11-0500	S		Base electrical system	1	MTL
50-11-0600			Warning Light Certification	1	MTL
50-11-0700			Low Voltage Electrical system test	1	MTL
50-11-0800			Low Voltage Electrical System Documents	1	MTL
50-11-0900	S		Rocker switch panel with master warning switch	1	MTL
50-11-1400	S		Federal PA300 100 watt siren	1	MTL
50-11-1620			Siren speaker, 100 watt, in front bumper	1	MTL
50-11-2600			Siren to be accessible to driver and officer	1	MTL
50-11-5809	U	<	Federal LPX53DS-NFPA lightbar	1	
			All red flashers with two forward facing take down lights (white steady burn switched in cab) Flashing pattern will change when park brake is set (blocking right of way) SOPT 798		
50-11-5810	S	>	Federal light package	1	MTL
50-11-6501	S		Rear Directional Light not requested	1	MTL
50-11-8900			Rear beacons-Federal Sentry (pr) 1 red, 1 amber	1	MTL
50-12-5020			Front LED flashers (pr)-red Federal QL64XF-R	1	MTL
50-12-5110			Rear LED flashers (pr)-red Federal QL64XF-R	1	MTL
50-12-5210			Front side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-12-5310			Body side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-12-5410		>	Additional body side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-21-1505	U	<	Unity LED rear flood (pr) SOPT 255a	1	
			These lights are required for ULC and cannot be shed with load manager		
50-21-1610	U	<	Parking (ditch) lights in rear fenders - LED w/ SS housing Switched in cab and also interlocked with reverse gear of transmission SOPT 160a	1	
50-21-2525	U		FRC telescoping SPECTRA LED 12V flood (ea)	2	
50-21-3000		>	Remote control electric spot/flood (ea) Spartan	1	MTL
50-21-5100		>	Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-5550			Equipment rack not stowed warning light	2	MTL
50-21-8001	S		Step lights for body steps - 4" LED	1	MTL
50-21-8200	S		Step lights for chassis steps - 12" Lumabar LED or equivalent	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-21-8800			LED intermediate turn signal/clearance/reflector length >30'	1	MTL
50-22-0700	S		Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
50-31-6006	S	< >	Scene lights (pr) - Federal QL97 LED Each side corner and upper rear corner Three switches in cab - Left scene, Right scene, Rear Scene Rear scene lights also to operate when vehicle is in Reverse	3	MTL
50-31-6010	S	<	Scene light boxes (pr) - painted Scene light boxes to be smooth plate painted job colour	2	MTL
50-31-6550	S		Ground lighting (LED Lumabar H20) - 2 door chassis	1	MTL
50-31-6570	S		Ground lighting (LED Lumabar H20) - side mount body	1	MTL
50-31-65AA	U		Hose bed lighting - LED on front partition - 3 x 20" Lumabar H20	1	
50-35-0500	S		Installation of customer supplied mobile radio	1	MTL
50-35-0560			VHF antenna with base - commercial chassis	1	MTL
			BODY	1	MTL
60-10-1600			Tandem axle extruded aluminum body	1	MTL
60-10-4100			No "beavertail" rear step supports	1	MTL
60-10-4600			Painted fender surround E	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL
60-10-5400		>	Diamondback pumphouse steps	1	MTL
60-10-5430		>	Diamondback 19" rear step	1	MTL
60-10-6000			Extruded rub rail	1	MTL
60-11-0300		>	Front left side compartments full height E	1	MTL
60-11-0700		>	Front right side compartments full height E	1	MTL
60-11-1000		>	Rear left side compartments full height E	1	MTL
60-11-1400		>	Rear right side compartments full height E	1	MTL
60-11-2000	S	>	High side compartment (over 18") each	4	MTL
60-11-3100			No rear compartment E	1	MTL
60-11-5500			Rollup door - standard height	4	MTL
60-11-5520			Rollup door - full height	4	MTL
60-11-5650	U		Amdor pull down strap (ea)	8	
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5000			Zico access Ladder at rear of unit	1	MTL
60-31-5600			Steps and grab handles at front of body next to pump panel	1	MTL
60-31-6500			Compartment matting-Turtle tile	1	MTL
60-31-8000			BA bottle compt (ea)-fender well	4	MTL
60-31-8800	S	>	Sliding tray (ea) - 600 pound capacity	4	MTL
60-31-9600	S	>	Adjustable shelf (ea)	6	MTL
60-32-3560			Three adjustable hose divider (each)	1	MTL
60-32-7500			Hose bed - aluminum	1	MTL
60-33-0000			Paint exterior - Imron Elite	1	MTL
60-33-0200			Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600			Chassis wheels not painted	1	MTL
60-33-1000			Paint pump and plumbing job colour	1	MTL
60-33-1500			Buffed finish compartment interior	1	MTL
60-33-2200	S		Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
60-33-3000			Reflective stripe - 4" white	1	MTL
60-33-3310			Reflective stripe - red and yellow chevron at rear	1	MTL
60-33-3500			Tarp over hose bed - black	1	MTL
60-33-4700			No crosslay preconnects on vehicle E	1	MTL
60-40-5500			Suction hose tube (each) with door	2	MTL
60-41-1015			Pike Pole tube in suction hose tube	2	MTL
60-41-6005		>	Zico horizontal electric portable tank rack	1	MTL
60-41-6010			ZICO PTS switched at rear above tail light	1	MTL
60-41-9500		>	Zico Horizontal Ladder Access system	1	MTL
60-41-9510			ZICO HLAS switched at rear above tail light	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-99-05AA	U	<	Swing out tool board SOPT 123b Location of swing out tool boards; SOTB #1 - LS forward compartment over rear wheels SOTB #2 - LS rearward compartment over rear wheels Drilled in "pegboard" pattern to match PAC bracket hole centres	2	
INSTRUMENTATION				1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-0500	S		Side mount instrument panel	1	MTL
70-11-1500			Stainless steel instrument panels	1	MTL
70-11-3200			Colour coded tags	1	MTL
70-11-4100			Stainless steel side panel hood left side	1	MTL
70-11-4500			Diamondback grip type panel hood step right side	1	MTL
70-11-5100			Open storage at rear top of pump house	1	MTL
70-11-5500			Right side tread plate pump access door	1	MTL
70-11-7500			Heat pan-aluminum	1	MTL
70-11-8000			Heater in pump compartment	1	MTL
70-20-1500			2-1/2" pressure gauge - dual face 0-600	6	MTL
70-20-2500			Primer control	4	MTL
70-20-3300			FRC InControl Governor Control	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610			Remote PSTANK water level indicators each side, rear with driver E	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			Heat exchanger control valve	1	MTL
70-21-1600	S		Electric Foam Level gauge not requested	1	MTL
70-21-5500			Panel readout for Battery Conditioner	1	MTL
71-21-3500			Headset compartment	1	MTL
72-99-05AA	U	<	David Clark Headset SOPT 894 Wire to the Customers radio	1	
ACCESSORIES				1	MTL
80-11-5000			6" x 10' lightweight suction hose (ea)	2	MTL
80-12-2500			6" barrel strainer	1	MTL
80-12-4500		>	6" low level strainer with 1-1/2" venturi connection	1	MTL
80-13-0500			Rubber mallet	1	MTL
80-13-1000			Hose wrenches (double) with holder	3	MTL
80-13-1500			Bar with bracket	1	MTL
80-13-2500			Pike pole, fibreglass handle - 10' long	2	MTL
80-13-4000	S		Axe, pick head, fibreglass handle and bracket	1	MTL
80-13-4500	S		Axe, flat head, fibreglass handle and bracket	1	MTL
80-14-0500			24' 2 section extension ladder PEL 24	1	MTL
80-14-5500			14' aluminum roof ladder PRL-14	1	MTL
80-14-8500			10' aluminum folding attic ladder FL-10	1	MTL
80-14-9000			Attic ladder bracket (Zico)	1	MTL
80-15-1005			2500 l gallon portable tank - Husky	1	MTL
80-18-0500	S		SCBA bracket with strap - compt mount	4	MTL
80-19-0500	S		Large folding wheel chock - aluminum (ea)	2	MTL
80-19-0600	S	>	Horizontal bracket for folding wheel chock (ea)	2	MTL