

Shop Order-00-10-15: Unclassified

Linacy Fire Department Chief Dale Pettipas 6735 Hwy 4 Linacy, NS B2H 5C4

Exp. Date: 01/13/2016

Quote No: JLINS-0010 Job/Order No: 19084

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

03/08/2017					Page
PART NO	S	STN CODE		QTY	ID
			== Metalfab Pumper - ULC 05/13 - 0.000 ==		MTL
	S		CHANGE ORDER B	1	
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		PolypropyleneTank Lifetime Warranty	1	
00-20-2000			Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S		No Bonding Requested	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		BLC S515-13 Compliance	1	MTL
10-11-1500		>	ULC Testing - Pumper	1	MTL
10-11-2100			Maximum length not specified E	1	MTL
10-11-2200			Maximum height not specified E	1	MTL
10-11-2300			Overall length is less than 30'	1	MTL
10-11-2500			General Construction	1	MTL
10-11-3000			Manuals - two copies	1	MTL
10-11-3600	S	>	Delivery - FOB Fire Department	1	MTL
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
			Freightliner M2 106 Two door, two seating positions		
			41,600 lb GVW 14,600 FA 27,000 RA ESC included		
			206" Wheelbase Approx 141" Cab to Axle		
			Cummins ISL 350 hp @ 2000 rpm, 2200 gov rpm, 1000 torq		
			@ 1400 rpm		
			Allison 3000 EVS automatic transmission, 275 amp alternator		
			189 liter fuel tank, LH		
			Polished aluminum wheels - SS high hats and nut covers by		
			Nova		
			Dual air horns with foot switch controls		
			Air ride drivers and officers seats		
			Rubber fender extensions around front fenders		
			Color is L3240EB Red Elite BC - Spray out is required for		
			Customer sign off.		
			-		

03/08/2017					Page 2
PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-11-1500			2013 Emission chassis modifications	1	MTL
20-11-1600	S		Chassis Motor Vehicle Inspection as provided by chassis	1	MTL
			dealership		
20-21-0500			Fluid capacity plate	1	MTL
20-21-0600			Pumping test plate	1	MTL
20-21-1000			Maximum riders sign - 2 persons	1	MTL
20-21-1500			Seat belt warning labels - 2 door chassis	1	MTL
20-21-1530			Tire Pressure Indicators - Single 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	S		Chassis cab painted by chassis manufacturer	1	MTL
20-31-7500	S		Console in cab	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
				1	MTL
20-41-1500			Extend exhaust pipe - RS front of rear wheels	1	IVIIL
00 44 4000					
20-41-1900			Battery boost terminals with chassis E	1	MTL
20-41-2000			Chassis batteries remain in OEM location	1	MTL
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
20-41-5000			Rear Tow Hooks - under body	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
20-51-4000			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
20-51-8500			Engine compartment lights (pair)	1	MTL
20-51-9001	S		Air horns ordered with chassis complete with foot switch	1	MTL
	_		controls	-	
20-52-3000		>	Chassis steering wheel lined up by others	1	MTL
20-52-4000	S		Rear View Camera system	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
20 00 0400			PUMP AND PLUMBING	1	MTL
30-11-5600			Hale QFLO Single stage 1050 IGPM	1	MTL
				·-	MTL
30-12-3300			Mechanical seal for Hale QFLO/QPAK pumps	1	
30-15-0103			Plumbing - Hale manifold pump SM	1	MTL
30-20-0500			₩alves and controls - side mount panel	1	MTL
30-20-1001			Valve brand not specified E	1	MTL
30-20-1500	_		Piping galvanized steel - general	1	MTL
30-20-1700	S		1-1/2" thread specifications - NPSH	1	MTL
30-20-1800	S		2-1/2" thread specifications - 3.23" ODM x 5 TPI NSZ1	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2505			Anodes in suction and discharge piping not requested	1	MTL
30-21-5500			Tank to Pump 3" w/ 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
30-31-7100	S	>	Hale master intake suction valve - handwheel control	2	MTL
30-32-7500			Suction - 2-1/2" left side, bleeder, Hale manifold pump	1	MTL

03/08/2017					Page 3
PART NO	S	STN CODE		QTY	ID
30-40-2000			4" right discharge, plumbed 3", Hale manifold pump	1	MTL
30-41-2000			2-1/2" RS discharge, bleeder, Hale manifold pump	1	MTL
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	1	MTL
30-44-0500			1-1/2" crosslay (each), 2" valve, bleeder	2	MTL
30-44-6500	S		Piping for monitor, plumbed 3", bleeder	1	MTL
30-44-8500		< >	Hose reel, 1" X 200', nozzle, electric - compartment mounted	1	MTL
30-44-0300			To be installed on top of body in area ahead of the hose bed	,	WIIL
			front partition, centered between the water and foam fill		
			towers.		
			Hose rollers will be installed on body top rails so hose can		
			be deployed from either side (2 set required).		
			Rewind buttons will be on both side pump operators panels		
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift	1	MTL
			E		
30-51-6800			FRC InControl Governor/Throttle engine display with throttle	1	MTL
			knob		
30-51-701A	U		Suction side relief valve for MIV	2	
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
30-52-5610	S		Foam system-Hypro FoamPro 2001 Dual Tank	1	MTL
30-52-6500			FoamPro dual tank selector valve (manual)	1	MTL
30-52-9100			Foam concentrate label at foam tank fill	2	MTL
30-52-9200			Foam System Instruction Plates	1	MTL
30-52-9400			NFPA Foam System certification test	1	MTL
30-99-06AA	U	•	Trident automatic air primer - 3 location	1	WIL
30-99-00AA	U		SOPT 710	,	
			30F1 / 10		
			WATER AND FOAM TANKS	1	MTL
40 44 2400	S			1	
40-11-2100	3		Polypropylene water tank (Imperial gallons)	-	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5000			Tank capacity 1000 Imperial Gallons	1	MTL
40-12-4500			Foam cell - 20 Imperial gallon	2	MTL
40-13-0100		>	Through the tank tunnel - up to 1200 gallon tank	1	MTL
40-21-0500			3" 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	1	MTL
			E		
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-3500			10" rear Newton dump, stainless steel	1	MTL
40-31-3600			Newton dump - stainless steel 36" telechute	1	MTL
40-31-5500			Electric operator for Newton dump	1	MTL
40-31-8000			4" Storz rear gtd fill	1	MTL
10 01 000			ELECTRICAL	1	MTL
50-11-0500			Base electrical system	1	MTL
50-11-0500			Warning Light Certification	1	MTL
50-11-0700			Low Voltage Electrical system test	1	MTL
50-11-0700			Low Voltage Electrical System Documents	1	MTL
50-11-0900	S		Rocker switch panel with master warning switch	1	MTL
50-11-1400	3		Federal PA300 100 watt siren	1	MTL
			Siren speaker,100 watt, in front bumper	-	MTL
50-11-1620			Siren to be accessible to driver and officer	1	
50-11-2600	_			1	MTL
50-11-5810	S	>	Federal light package	1	MTL
50-11-58AA	U	>	Federal LPX53DS-NFPA light bar	1	

03/08/2017					Page 4
PART NO	S	STN CODE		QTY	ID
50-11-6501	S		Rear Directional Light not requested	1	MTL
50-11-901A	U		Rear beacons-Federal NVG10 LED (pr) - both red	1	
50-12-502A	U		Front LED flashers (pr) - red Federal IMPAXX	1	
50-12-511A	U		Rear LED flashers (pr) - red Federal IMPAXX	1	
50-12-521A	Ū		Front side intersection lights - LED (pr) - red Federal IMPAXX	1	
50-12-531A	Ū		Body side intersectionlights - LED (pr) - red Federal IMPAXX	1	
50-21-1500			Rear floods (pr)-Unity	1	MTL
50-21-2520	U		FRC telescoping SPECTRA LED 12V flood (ea)	2	IVIIL
50-21-29AA	Ü		Additional lighting in cab to illuminate floor area (ULC	1	
30-21-29AA	U		requirement)	'	
50-21-5100		>	Compartment lighting - LED tube lights in each compartment	1	MTL
00 27 0700			(rollup doors)	,	
50-21-5500			Door Ajar warning light	1	MTL
50-21-5550			Equipment rack not stowed warning light	1	MTL
50-21-8001			Step lights for body steps - 4" LED	1	MTL
50-21-82AA	U		12" Lumabar LED step lights for two door chassis	1	
50-21-8600	-		LED clearance Its and reflectors	1	MTL
50-22-0700	S		Whelen 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6006	•	>	Scene lights (pr) - Federal QL97 LED	2	MTL
50-31-6011			Scene light boxes not required	1	MTL
50-31-6550			Ground lighting (LED Lumabar) - 2 door chassis	1	MTL
				1	MTL
50-31-6570	_		Ground lighting (LED Lumabar) - side mount body	- 1	
50-35-0500	S <	(Installation of customer supplied mobile radio	2	MTL
			***Please provide radio(s), antenna(s) and radio information		
			list prior to chassis receipt at Metalfab.***		
			Radio to be located on cab console 20-31-7500		
			Radio #1		
			MakeMotorola_		
			ModelCM300_		
			Dimensions:		
			Length6.5"_		
			Width1.5"		
			Thickness4.5"		
			Radio #2		
			MakeMotorola_		
			ModelTMR_		
			Dimensions:		
			Length7"		
			Width2.5"_		
			Thickness8.5" There will be a jack connection on the pump panel for a		
			customer supplied headset		
			David Clark 6 pin bulkhead connector 1520574 18352G-16		
			David Clark cap 1520375 13238P-01		
			8 conductor cable 1001150		
			Wire this jack to the VHF radio		
50-35-0559			Mobile radio antenna provided by customer	2	MTL
			E		
50-99-16AA	U		Additional 20" LED lumabars to light access ladder on rear	1	
			BODŸ	1	MTL
60-10-1400			Single 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	1	MTL
30-11-0300		>	E	1	.VI I ∟

03/08/2017		0711.0005		O.T.) (Page 5
PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-11-0600		>	Front right side compartments intermediate height		MTL
60-11-1000		>	Rear left side compartments full height	1	MTL
			E		
60-11-1300		>	Rear right side compartments intermediate height	1	MTL
60-11-1900		< >	Low side compartment (up to 18") each	1	MTL
			Right side with drop down door		
			3 · · · · · · · · · · · · · · · · · · ·		
60-11-2000		< >	High side compartment (over 18") each	1	MTL
00 11 2000			Left side	•	
			Left Side		
60 44 2400			No rear compartment E	4	MTL
60-11-3100				1	
60-11-4500			Flush mount aluminum door - single with "D" handle	1	MTL
60-11-5500			Rollup door - standard height	1	MTL
60-11-5510			Rollup door - intermediate height	2	MTL
60-11-5520			Rollup door - full height	2	MTL
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5000			Zico access Ladder at rear of unit	1	MTL
60-31-5500		<	Steps at rear of body (folding)	1	MTL
			To access hose bed		
			Right side only with Zico rear access ladder on left side		
			Maximum height between steps is 18"		
			maximum neight between steps is 10		
60-31-5600			Stone and grab handles at front of body novt to numn nanol	1	MTL
60-31-6500			Steps and grab handles at front of body next to pump panel Compartment matting-Turtle tile	1	MTL
				•	
60-31-8000			BA bottle compt (ea)-fender well	4	MTL
60-31-8700	_	>	Sliding tray (ea) - 400 pound capacity with gas strut	4	MTL
60-31-9600	S	>	Adjustable shelf (ea)	7	MTL
60-32-3550			Two 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			Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
60-33-2300	S		Lettering - special graphics	1	MTL
60-33-3000	•		Reflective stripe - 4" white	1	MTL
60-33-3310			Reflective stripe - red and yellow chevron at rear	1	MTL
				1	
60-33-3500			Tarp over hose bed - black	1	MTL
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-40-5500	•	<	Suction hose tube (each) with door	3	MTL
			Two tubes are rear access and installed under the tee of the		
			tank to house the 80-11-5000 suction hose (6" x 10'). These		
			tubes will have a smooth painted door with lift and turn latch		
			and chevron applied.		
			The 3rd suction hose tube will be located in the right part of		
			the hose bed as shown on the proposal drawing to house		
			the 80-11-5000 suction hose (6" x 10'). This tube will have a		
			vertically hinged aluminum tread plate door with a lift and		
			turn latch.		
			turn lutorn		
60-40-9500	S	>	Tube for portable tank storage, with rear door	1	MTL
60-41-1015	J		Pike Pole tube in suction hose tube	2	MTL
60-41-9000		>	Zico electric Ladder Access system	1	MTL
60-41-9010			ZICO LAS switched at rear above tail light	1	MTL
			E		
60-41-9100			Manual locking system for LAS		MTL
			INSTRUMENTATION	1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-0500	S		Side mount instrument panel	1	
			•		

03/08/2017				Page 6
PART NO	S STN CODE	DESCRIPTION	QTY	ID
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	9	MTL
70-20-3300		FRC InControl Governor Control	1	MTL
70-20-3510		Electric water level gauge on pump panel and at rear, Class	1	MTL
		One		
70-20-6500		Test gauge panel	1	MTL
70-20-7500		Heat exchanger control valve	1	
70-21-1600	S	Electric Foam Level gauge not requested	2	MTL
70-21-5500	•	Panel readout for Battery Conditioner	1	MTL
71-21-4500	S	Speaker on pump panel	1	MTL
71-21-4500	3	ACCESSORIES	1	MTL
80-11-5000		6" x 10' lightweight suction hose (ea)	3	MTL
		6" barrel strainer		
80-12-2500			1	MTL
80-13-0500	0	Rubber mallet	1	MTL
80-13-4000	S	Axe, pick head, fibreglass handle and bracket	1	MTL
80-13-4500		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
80-15-0500		1500 l gallon portable tank - Husky	1	MTL
80-16-0500		Akron 3423 Portable/deck monitor with stacked tips	1	MTL
80-18-0500	S	SCBA bracket with strap - compt mount	4	MTL
80-99-0010	U	Mount customer fire extinguishers	2	