



Shop Order-00-10-15: Unclassified

Borden-Carleton Fire Department
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Exp. Date: 09/08/2012
Quote No: JBOPE-0009 **Job/Order No:** 17353
BODY: 00-10-15 Metalfab Pumper - ULC 11/09

02/17/2017

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PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			== Metalfab Pumper - ULC 11/09 - 0.000 ==	1	MTL
			Change Order B	1	MTL
	S				
00-10-1500			Metalfab Pumper	1	MTL
00-20-1000			Company Profile	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			Ultra Tank Lifetime Warranty	1	MTL
00-20-2000			Plant Visits - unlimited at customer expense	1	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
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent	1	MTL
10-11-1100			ULC S515-04 Compliance	1	MTL
10-11-1500		>	ULC Testing	1	MTL
10-11-2100			Maximum length not specified	1	MTL
10-11-2200			Maximum height not specified	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
			CHASSIS INFORMATION	1	MTL
20-11-1000	S		Chassis supplied by Metalfab	1	MTL
20-11-1500	S		2010 Emission chassis modifications	1	MTL
20-11-1600			Chassis Motor Vehicle Inspection not required	1	MTL
20-21-0500			Fluid capacity plate	1	MTL
20-21-0600			Pumping test plate	1	MTL
20-21-1000			Maximum riders sign	1	MTL
20-21-1500			Seat belt warning labels	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 (Automatic with push button shift)	1	MTL
20-21-3500			Rear step warning label	1	MTL
20-21-3800			Front mudflaps	1	MTL
20-21-4000			Rear mudflaps	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	1	MTL
20-41-0600			Intake air shutoff for engine not required	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-41-0800			Auxiliary braking system not present	1	MTL
20-41-1100			Transmission lockup-WT	1	MTL
20-41-1500			Extend exhaust pipe - RS front of rear wheels	1	MTL
20-41-1900			Battery boost terminals	1	MTL
20-41-2000			Chassis batteries remain in OEM location	1	MTL
20-41-2600			Chassis fuel tank remains in OEM location	1	MTL
20-41-5000			Rear Tow Hooks - under body	1	MTL
20-51-0500			Master disconnect switch - manual	1	MTL
20-51-2600			Back up alarm	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 panel	1	MTL
20-51-5600			Flashing headlights w/ daytime running lights	1	MTL
20-51-6500			Kussmaul battery conditioner w/battery saver	1	MTL
20-51-7100	U		Price Adjustment	1	
20-51-7500			Auto eject for 110 v - 20 A with enclosure	1	MTL
20-51-8500			Engine compartment light	2	MTL
20-52-1400			Chassis alternator to remain	1	MTL
20-52-3500		>	Chassis steering wheel lined up by Metalfab	1	MTL
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
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1500			Piping galvanized steel - general	1	MTL
30-20-1700	S		1-1/2" thread specifications	1	MTL
30-20-1800	S		2-1/2" thread specifications	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-21-5500	S		Tank to Pump 3" ball valve with check valve	1	MTL
30-22-0500	S		Tank Fill valve 2" ball valve	1	MTL
30-31-4000		<	Suction - 6" not gated each side	1	MTL
			Add reducers to 4.5" (80-99-15AA) complete with 4-1/2" caps after ULC test to match M04-2101		
30-31-7100		>	Hale master intake suction valve - handwheel control	1	MTL
30-32-7500	S		Suction - 2-1/2" ball valve left side, bleeder	1	MTL
30-32-8000	S		Suction - 2-1/2" ball valve right side, bleeder	1	MTL
30-40-2000	S		4" right discharge, 3" ball valve, slo cloz, bleeder	1	MTL
30-41-2000	S		2-1/2" RS discharge, ball valve, droop, bleeder	1	MTL
30-41-2500	S		2-1/2" LS discharge, ball valve, droop, bleeder	2	MTL
30-43-1500	S	<	2-1/2" rear discharge, ball valve, droop, bleeder	2	MTL
			Plumb to front wall of hose bed. One right side and one left side. They will be pre-connected.		
30-44-0500	S		1-1/2" crosslay (each), 2" ball valve, bleeder	2	MTL
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift	1	MTL
30-51-6800			FRC InControl Governor/Throttle engine display	1	MTL
30-51-7000			Suction side relief V/V, Class One	1	MTL
30-51-7700			Primer Hale oil less ESP with oil tank	1	MTL
30-51-7800		>	Pre Primer for gated suction	1	MTL
30-51-8000			Heat exchanger	1	MTL
30-52-1000			Master drain V/V, 12 port	1	MTL
30-52-2000			Drain valve for foam system header	1	MTL
30-52-5500			Foam system-Hypro FoamPro 2001 Single Tank	1	MTL
30-52-9000			Foam Tank drain	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

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
40-11-2100			Ultra-Tank water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-5500			Tank capacity 1200 Imperial Gallons	1	MTL
40-12-4500			Foam cell - 20 Imperial gallon	1	MTL
40-13-0100	S		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
40-30-0500			Sump drain valve (3" gate valve) with linkage	1	MTL
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-4500			10" rear Newton dump, painted steel	1	MTL
40-31-4600			Newton dump, side mount manual operation	1	MTL
40-31-5000			Newton dump - 36" telechute painted steel	1	MTL
40-31-6000			2-1/2" rear gtd tank fill	1	MTL
			ELECTRICAL	1	MTL
50-11-0500			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			Rocker switch panel with master warning switch	1	MTL
50-11-1400			Federal PA300 100 watt siren	1	MTL
50-11-1600			Siren speaker, 100 watt, in front bumper	1	MTL
50-11-2600			Siren to be accessible to driver and officer	1	MTL
50-11-5810	S	>	Federal SOLARIS Jetsolairs 5401 LED light bar all red	1	MTL
50-11-7600			Rear LED Signal Master warning lights	1	MTL
50-11-9010			Rear beacons-Federal Micro Escape LED (pr) - both red	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
50-21-2500			Extenda Light telescoping 500 watt flood (ea)	2	MTL
50-21-3000		<	Remote control electric spot (ea)	1	MTL
			SPARTAN electric spot/flood light will be on the right side of chassis hood		
50-21-4000	S	<	Extenda Light telescoping 12 v flood/spot (ea)	2	MTL
			Rear flood lights to be installed in the rear square beavertails		
			***Switched on light head, as well as in cab by the Rear Floods rocker switch		
			Note these lights are also used as rear step lights and cannot be managed		
50-21-5100		>	Compartment lighting - LED tube lights in each compartment	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-5550			Equipment rack not stowed warning light	2	MTL
50-21-8000			Step lights for body steps	1	MTL
50-21-8200			Step lights for chassis steps	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-22-0700			Whelan 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6500	U		LED Ground lighting - NFPA requirement	1	
50-35-0500	S		Installation of customer supplied mobile radio	1	MTL
50-35-0560	S		VHF antenna with base - commercial chassis	1	MTL
51-31-2600			6500 watt portable generator	1	MTL
51-31-3000	S		120 volt wiring for portable generator	1	MTL
51-31-4500			Dielectric strength test for line voltage system	1	MTL
			BODY	1	MTL
60-10-1400			Single axle extruded aluminum body	1	MTL
60-10-40AA	U		Square rear step supports	1	
60-10-4600			Painted fender surround	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-10-5400		>	Diamondback 19" rear step/pumphouse steps	1	MTL
60-10-6000			Extruded rub rail	1	MTL
60-11-0140			No second front left side compartment	1	MTL
60-11-0200		>	Front left side compartments intermediate height	1	MTL
60-11-0540			No second front right side compartment	1	MTL
60-11-0600		>	Front right side compartments intermediate height	1	MTL
60-11-0900		>	Rear left side compartments intermediate height	1	MTL
60-11-1300		>	Rear right side compartments intermediate height	1	MTL
60-11-1900		>	Low side compartment (up to 18") each	2	MTL
60-11-3200			Full Height Rear compartment	1	MTL
60-11-4500			Flush mount aluminum door - aluminum body	2	MTL
60-11-5500			Rollup door	5	MTL
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5500		<	Steps at rear of body	1	MTL
			Fixed diamond back steps up back of body. Step width to be the widest possible		
			Maximum height between steps is 18"		
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
60-31-8700			Sliding tray (ea) - 400 pound capacity with gas strut	5	MTL
60-31-9600	S		Adjustable shelf (ea)	4	MTL
60-32-3560	S		Adjustable hose divider (each)	3	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
60-33-0500			Paint chassis wheels job colour with silver trim	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"	1	MTL
60-33-3500			Tarp over hose bed	1	MTL
60-33-4600		>	Aluminum cover over crosslays - with end tarps	1	MTL
60-40-5500		<	Suction hose tube (each)	3	MTL
			Will be 4.5" suction hoses and they will be stored in the water tank tube		
60-40-8500			Tail light box Fire Extinguisher tubes (pr)	1	MTL
60-41-1000		<	Pike Pole tube	2	MTL
			Will be stored in the water tank tube for 10' pike poles		
			80-13-2500		
60-41-1500			Attic ladder tube	1	MTL
60-41-7000			Drop down portable tank rack - manual oper.	1	MTL
60-41-7100			Tread plate on body behind porta tank rack	1	MTL
60-41-7110			No tread plate exterior manual drop down porta tank rack	1	MTL
60-41-7500			Drop down ladder rack - manual operation	1	MTL
60-99-05AA	U		D-Handle levers for manual racks (pr)	2	
			INSTRUMENTATION	1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-0500			Side mount instrument panel	1	MTL
70-11-1500			Stainless steel instrument panels	1	MTL
70-11-3200	S		Colour coded tags	1	MTL
70-11-4500			Diamondback grip type panel hood step right side	1	MTL
70-11-4600			Diamondback grip type panel hood step left side	1	MTL
70-11-5100	S	<	Storage at rear top of pump house with doors at top, ends	1	MTL
			There will be a hinged deck plate cover and access doors on each side.		
			This compartment to have two lights, activated by door switches for the side access doors - wired to door ajar light		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
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	8	MTL
70-20-2500			Primer control	2	MTL
70-20-3300			FRC InControl Governor Control	1	MTL
70-20-3500			Electric water level gauge on pump panel	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			Heat exchanger control valve	1	MTL
70-21-1600			Electric Foam Level gauge not required	1	MTL
70-21-5500			Panel readout for Battery Conditioner	1	MTL
71-21-4000			Microphone compartment	1	MTL
71-21-4500			Speaker on pump panel	1	MTL
			ACCESSORIES	1	MTL
80-11-3000			4-1/2" x 10' lightweight suction hose (ea)	3	MTL
80-12-1500			4-1/2" barrel strainer	1	MTL
80-12-3500		>	4-1/2" 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
			Mount each side and at rear		
80-13-1500			Bar with bracket	1	MTL
80-13-2500			Pike pole, fibreglass handle	2	MTL
80-13-3500	S		Axe, pick head, wooden handle and bracket	2	MTL
80-14-0500			24' 2 section extension ladder PEL 24	1	MTL
80-14-5500			14' aluminum roof ladder PRL-14	1	MTL
80-14-7500			Padded ladder boot	1	MTL
80-14-8500			10' aluminum folding attic ladder FL-10	1	MTL
80-15-1000			2000 gallon portable tank	1	MTL
80-16-1500			Akron 2581 gated wye	1	MTL
80-17-0500	S		20# dry chemical fire extinguisher	1	MTL
80-17-1000	S		15# CO2 fire extinguisher	1	MTL
80-19-0500			Large folding wheel chock - aluminum (ea) not mounted	2	MTL
80-19-0600			Horizontal bracket for folding wheel chock (ea)	2	MTL
80-99-05AA	U		45 - Degree Kocheck 4.5" Suction fitting	1	
80-99-10AA	U		Air chuck w/25' of 3/8" air hose	1	
80-99-15AA	U		6" FNST to 4.5" MNST adapters	2	