



Shop Order-00-10-15: Unclassified

North River Fire Department  
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**Exp. Date:** 10/27/2016  
**Quote No:** GNOPE-0016      **Job/Order No:** 19373  
**BODY:** 00-10-15      Metalfab Pumper - ULC 05/13

08/21/2017

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PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b>	1	MTL
			<b>CHANGE ORDER E</b>	1	MTL
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
<b>00-20-1600</b>			<b>Waterous Pump Warranty - 5 years</b>	1	MTL
<b>00-20-1800</b>	<b>S</b>		<b>Water tank Lifetime Warranty</b>	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
00-20-4500			Fire Apparatus Manufacturers' Association Membership	1	MTL
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent	1	MTL
<b>10-11-0110</b>			<b>Vehicle data recorder included with chassis</b>	1	MTL
<b>10-11-1101</b>	<b>S</b>		<b>ULC S515-13 and NFPA 1901-2009 Compliance</b>	1	MTL
			<b>E</b>		
10-11-1500		>	ULC Testing - Pumper	1	MTL
10-11-2100			Maximum length not specified	1	MTL
<b>10-11-2200</b>	<b>S</b>		<b>Maximum height 11'-6"</b>	1	MTL
<b>10-11-2400</b>			<b>Overall length is 30' or more</b>	1	MTL
10-11-2500			General Construction	1	MTL
<b>10-11-3000</b>			<b>Manuals - two copies</b>	1	MTL
<b>10-11-3600</b>	<b>S</b>	< >	<b>Delivery - FOB Fire Department -</b>	1	MTL
			<b>SOPT 436</b>		
<b>10-11-4000</b>	<b>S</b>		<b>Payment Terms - Chassis Net 10 days, Balance COD</b>	1	MTL
<b>10-20-1400</b>	<b>S</b>	>	<b>Hose capacity exceeding ULC/NFPA requirements</b>	1	MTL
<b>10-20-2400</b>	<b>S</b>	>	<b>Equipment carrying capacity exceeding ULC/NFPA requirements</b>	1	MTL
			CHASSIS INFORMATION	1	MTL
<b>20-11-1000</b>	<b>S</b>		<b>Chassis supplied by Metalfab - Freightliner 114SD</b>	1	MTL
20-11-1500			2013 Emission chassis modifications	1	MTL
<b>20-11-1700</b>	<b>S</b>		<b>Chassis Motor Vehicle Inspection required - NS</b>	1	MTL
<b>20-21-0500</b>			<b>Fluid capacity plate</b>	1	MTL
<b>20-21-0600</b>			<b>Pumping test plate</b>	1	MTL
<b>20-21-1030</b>			<b>Maximum riders sign - 5 persons</b>	1	MTL
<b>20-21-1510</b>			<b>Seat belt warning labels - 4 door chassis</b>	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-21-1520			<b>Helmet warning label - do not wear helmet</b>	4	MTL
20-21-1540			<b>Tire Pressure Indicators - Tandem Axle</b>	1	MTL
20-21-1600			<b>Apparatus Information Label</b>	1	MTL
20-21-2000			Non removable key	1	MTL
20-21-2500			Shifter lock not required	1	MTL
20-21-3500			Rear step warning label	1	MTL
20-21-3800			Front mudflaps	1	MTL
20-21-4000			Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1000	S		<b>Alum tread fuel tank trim, Conv - 4 door</b>	1	MTL
20-31-1900	S		<b>Chassis cab painted by chassis OEM - black over red</b>	1	MTL
20-31-6500	S		<b>Stainless steel wheel covers - tandem axle</b>	1	MTL
20-31-7500	S		<b>Console in cab</b>	1	MTL
20-41-0600			Intake air shutoff for engine not required	1	MTL
20-41-0900			<b>Auxiliary braking system disabled when pumping</b>	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
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
20-51-0700			<b>Master Battery Disconnect included with chassis</b>	1	MTL
20-51-2500			<b>Back up alarm included with chassis</b>	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-4000			<b>Auto eject for air inlet - LS</b>	1	MTL
20-51-6200	S	>	<b>120 volt 20 A shore line connection in chassis cab</b>	2	MTL
20-51-6500			<b>Kussmaul Autocharge 1000 battery conditioner w/battery saver</b>	1	MTL
20-51-7100			<b>Electric System Manager</b>	1	MTL
20-51-7500			<b>Super Auto eject for 120 v - 20 A with sealed enclosure</b>	1	MTL
20-51-8510	U		<b>Engine compartment lights LED (pr)</b>	1	
20-51-9001	S		<b>Air horn included with chassis</b>	1	MTL
20-52-3500		>	<b>Chassis steering wheel lined up by Metalfab</b>	1	MTL
			E		
20-52-4001			<b>Rear View Camera system 7"</b>	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
20-90-1600	U		<b>Dual USB charging ports</b>	1	
20-99-0010	U		<b>Toe cover for air horn foot switch</b>	2	
20-99-0588	U		<b>FRC brow lights on cab - SPA830-Q15 - switched in cab</b>	1	
			PUMP AND PLUMBING	1	MTL
30-12-3900			<b>Packing for Waterous pumps</b>	1	MTL
30-12-6000			<b>Waterous CSU single stage 1250 IGPM</b>	1	MTL
30-15-0202			<b>Plumbing - Waterous manifold pump TM SS</b>	1	MTL
			E		
30-20-1000			<b>Valves and controls - top mount panel</b>	1	MTL
30-20-1001			<b>Valve brand not specified</b>	1	MTL
30-20-1600			<b>Piping stainless steel - general</b>	1	MTL
30-20-1700	S		<b>1-1/2" thread specifications NPSH</b>	1	MTL
30-20-1800	S	<	<b>2-1/2" thread specifications - 3.25 x 5V</b>	1	MTL
			Customer confirmed 3.25 x 5V		
30-20-2000			<b>Piping hydrostatic test</b>	1	MTL
30-20-2500			<b>Anodes in suction and discharge piping</b>	1	MTL
30-21-5590			<b>Tank to Pump TM SS 3" w/ check valve manifold pump</b>	1	MTL
30-22-0530			<b>Tank Fill valve 2" TM SS</b>	1	MTL
30-31-4010	S		<b>Suction - 6" each side manifold pump</b>	1	MTL
30-31-7210	S	>	<b>Waterous master intake suction valve - electric control</b>	1	MTL
30-32-7535			<b>Suction - 2-1/2" left side SS, bleeder, Waterous manifold pump</b>	2	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-32-8035			Suction - 2-1/2" right side SS, bleeder, Waterous manifold pump	2	MTL
30-40-2035			4" right discharge TM SS, plumbed 3", Waterous manifold pump	1	MTL
30-41-2035	S		2-1/2" RS discharge TM SS, bleeder, Waterous manifold pump	1	MTL
30-41-2535	S		2-1/2" LS discharge TM SS, bleeder, Waterous manifold pump	2	MTL
30-43-1530	S		2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder	2	MTL
30-44-0730	S		1-1/2" speedlay (each) front of pumphouse TM SS, plumbed 2"	2	MTL
30-44-3530	S		2-1/2" crosslay TM SS, plumbed 2-1/2", bleeder	1	MTL
30-44-6530			Piping for monitor TM SS, plumbed 3", bleeder	1	MTL
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift E	1	MTL
30-51-6640	S		Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7003	U		Suction side relief V/V, manifold pump	2	
30-51-7712	U		Trident Air Primer 3 barrel 2 location	1	
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
30-52-5510			Foam system-Hypro FoamPro 2001 Single Tank	1	MTL
30-52-8100	S		Electric foam fill pump with panel pickup	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
40-11-7601	S		Tank capacity special - 3000 I Gallons	1	MTL
40-12-5101	S		Foam cell - special - 50 I Gallons	1	MTL
40-13-0100	S	>	Through the tank tunnel - for ladders	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
40-23-1000	S		1" foam level gauge connection	1	MTL
40-23-1040			4" direct fill connection	1	MTL
40-23-1060			10" Newton dump connection	3	MTL
40-30-0400			3" plug in sump box	1	MTL
40-30-1100	S		Water Fill Box middle left side	1	MTL
40-31-3500	S		10" rear/RS/LS Newton dump, stainless steel	3	MTL
40-31-3600			Newton dump - stainless steel 36" telechute	3	MTL
40-31-5500			Electric operator for Newton dump	3	MTL
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			Federal PA300 100 watt siren	1	MTL
50-11-1620			Siren speaker, 100 watt, in front bumper	1	MTL
50-11-2010			Federal Q2B mechanical siren - through front bumper	1	MTL
50-11-2600			Siren to be accessible to driver and officer	1	MTL
50-11-6100	S		Whelen FN60QLED LED light bar NFPA	1	MTL
50-11-6501			Rear Directional Light not required	1	MTL
50-11-8600	S		Rear LED beacons-Whelen MCFLED2R (pr) both red	1	MTL
50-12-8520	S		Front LED flashers (pr)-Whelen red LED 600 with integral flasher	1	MTL
50-12-8610	S		Rear LED flashers (pr)-Whelen red LED 600 with integral flasher	1	MTL
50-12-8710	S		Front side inter lts (pr) - Whelen red LED 600 with integral flasher	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
50-12-8710	S		Chassis side intersection lights (pr) - Whelen red LED 600 with integral flasher	1	MTL
50-12-8810	S		Body side inter lts (pr)-Whelen red LED 600 with integral flasher	1	MTL
50-12-8905	S	>	Add'l body side inter lts (pr)-Whelen red LED 600 with integral flasher	1	MTL
50-21-1610	U		LED Ditch lights in rear fenders (pr)	1	
50-21-2525	U		FRC Spectra LED 12 VDC telescoping light (ea)	4	
50-21-5100	S	>	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	1	MTL
50-21-8001	S		Step lights for body steps - 4" LED	1	MTL
50-21-8110	S		Step lights for walkway - 4" LED	1	MTL
50-21-8201	S		Step lights for chassis steps - 8 x 12" H20 LED lumabars	1	MTL
50-21-8600	S		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
50-31-6015	U		Whelen 900 series LED scene lights (pr) - Left side	1	
50-31-6016	U		Whelen 900 series LED scene lights (pr) - Rear facing	1	
50-31-6017	U		Whelen 900 series LED scene lights (pr) - Right side	1	
50-31-6610			Ground lighting (4" LED) - 4 door chassis	1	MTL
50-31-6630			Ground lighting (4" LED) - top mount body	1	MTL
50-35-0500	S		Installation of customer supplied mobile radio	2	MTL
50-35-0559	S		Mobile radio antenna provided by customer	2	MTL
			<b>E</b>		
			<b>BODY</b>		
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	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
60-11-0100		>	Front left side compartment to top of wheel well	1	MTL
60-11-0600		>	Front right side compartments intermediate height	1	MTL
60-11-0800		>	Rear left side compartment to top of wheel well	1	MTL
60-11-1300		>	Rear right side compartments intermediate height	1	MTL
60-11-1900	S	>	Low side compartment (up to 18") each	2	MTL
60-11-2000		>	High side compartment (over 18") each	3	MTL
60-11-3100			No rear compartment	1	MTL
60-11-4500	S		Flush mount aluminum door - single with "D" handle	5	MTL
60-11-5500			Rollup door - standard height	2	MTL
60-11-5510			Rollup door - intermediate height	2	MTL
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5500			Steps at rear of body (folding)	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
60-31-8700	S	>	Sliding tray (ea) - 400 pound capacity with gas strut	3	MTL
60-31-9600	S	>	Adjustable shelf (ea)	1	MTL
60-32-3550			Two adjustable hose divider (each)	1	MTL
60-32-7500			Hose bed - aluminum	1	MTL
60-33-0000	S		Paint exterior - black over red - Imron Elite	1	MTL
60-33-0200			Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S		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
60-33-3300	S		Reflective stripe - special graphics	1	MTL
60-33-3310	S		Reflective stripe - red and black chevron at rear	1	MTL
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-33-5005	U		Electric power assisted hose bed covers with end tarps	1	
60-40-5000	S		6" Hose tray - top mount (ea)	2	MTL
60-40-9000		>	Tube mount for ladders, with rear door	1	MTL
60-41-1015	S		Pike Pole tube incorporated with 60-40-9000 ladder tube	2	MTL
60-41-6001		>	Zico hydraulic portable tank rack	1	MTL
60-41-6010			ZICO PTS switched at rear above tail light	1	MTL
60-41-6110	S		Painted plate on exterior of Zico PTS	1	MTL
60-41-7090			No tread plate on body behind porta tank rack	1	MTL
			INSTRUMENTATION	1	MTL
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-1500			Stainless steel instrument panels	1	MTL
70-11-2000			Top mount instrument panel	1	MTL
70-11-2500	S		Transverse walkway	1	MTL
70-11-2600			Tread plate overlay on back of chassis cab	1	MTL
70-11-3100			Mansaver bars not required	1	MTL
70-11-3200			Colour coded tags	1	MTL
70-11-3500	S	>	Compartments in ends of walkway	1	MTL
70-11-4500	S		Diamondback grip type panel hood step right side	1	MTL
70-11-4600	S		Diamondback grip type panel hood step left side	1	MTL
70-11-5500			Right side tread plate pump access door	1	MTL
70-11-5600			Left 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
70-20-0500			4-1/2" compound gauge - dual face 0-600	2	MTL
70-20-0500	S		4-1/2" compound gauge - dual face 0-600	2	MTL
70-20-1500			2-1/2" pressure gauge - dual face 0-600	10	MTL
70-20-3100			Class One Governor Control	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610	S		Remote PSTANK water level indicators each side, rear with driver	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			Heat exchanger control valve	1	MTL
70-21-1500	S		Electric Foam Level gauge	1	MTL
70-21-5500			Panel readout for Battery Conditioner	1	MTL
			ACCESSORIES	1	MTL
80-11-5000			6" x 10' lightweight suction hose (ea)	2	MTL
80-12-4500	S	>	6" low level strainer with 1-1/2" venturi connection	1	MTL
80-13-0500	S		Rubber mallet with PAC bracket	1	MTL
80-13-1100	S		Hose wrenches (triple) with holder	2	MTL
80-13-2500	S		Pike pole, fibreglass handle	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
80-15-1010			3000 l gallon portable tank - Husky	1	MTL
80-17-0500	S		20# dry chemical fire extinguisher and mount	1	MTL
80-17-1500	S		2 gallon water extinguisher with mount	1	MTL
80-18-0500	S		SCBA bracket with strap - compt mount	8	MTL
80-18-0600	S		SCBA brkt w/strap - ZICO ULLH	4	MTL
80-20-3000	S		Portable hand light with charger Streamlight Survivor LED	2	MTL
80-20-3500	S		First Aid Kit	1	MTL
80-20-5000	S		Salvage Cover 12' x 14'	1	MTL
80-99-0010	U	<	TFT 1250 GPM Crossfire with manual Extend-A-Gun	1	
			TFT XFC-72 package with 1250 GPM/4500 LPM crossfire top and quad tips, stream straightener, and 12" manual extend-a-gun, mounted on the monitor piping		
			Top of monitor to be even with top of body when extended		
			Monitor to be centred side to side on pump house		

