



Shop Order-00-10-15: Unclassified

ERL Enterprises Ltd.
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Exp. Date: 06/12/2015
Quote No: ESTNL-0010 **Job/Order No:** 18411
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

02/10/2017

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PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
			CHANGE ORDER B	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
00-20-1600			Waterous Pump Warranty - 5 years	1	MTL
00-20-1800			Ultra Tank Lifetime Warranty	1	MTL
00-20-2100	S		Plant Inspection Visits	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 E	1	MTL
10-11-0110			Vehicle data recorder included with chassis	1	MTL
10-11-1100	S		ULC 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
10-11-2400			Overall length is 30' or more	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
10-11-4300	S		Payment Terms - Chassis and Body NET 30	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 - Spartan Metro Star	1	MTL
20-11-1500			2013 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
20-21-1040			Maximum riders sign - 6 persons	1	MTL
20-21-1510			Seat belt warning labels - 4 door chassis	1	MTL
20-21-1550	S		Tire Pressure Indicators - Voucher with Spartan chassis	1	MTL
20-21-1600			Apparatus Information Label	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		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
20-21-4000			Rear mudflaps - Metalfab Logo	1	MTL
20-31-0100			Fuel tank or step covers not required	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1900	S		Chassis cab - white over red by Spartan	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
20-41-1200	S		Transmission programming by Spartan	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
20-41-2550			Fuel fill at LS rear fender well	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			Master Battery Disconnect included with chassis	1	MTL
20-51-2500			Back up alarm included with chassis	1	MTL
20-51-3100			Air inlet not required	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-6501	S		Kussmaul 1200 Pump Plus with Auto eject by Spartan	1	MTL
20-51-7102	S		Electric System Management included with chassis - V_MUX	1	MTL
20-51-7500	S	<	Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
			Install just above rear step to cab buzzer on left side rear of body unless otherwise specified.		
20-51-8500	S		Engine compartment lights (pair) by Spartan	1	MTL
20-51-9001	S		Air horns with Spartan chassis	1	MTL
20-52-0500			Rear step to cab buzzer	1	MTL
20-52-3500		>	Chassis steering wheel lined up by Metalfab	1	MTL
			E		
20-53-05AA	U		Chassis alignment check when fully loaded	1	
20-60-0400			Chassis wheelbase does not change	1	MTL
20-99-05AA	U		LED Scene lights (pr) Whelen M9LZC - cab mounted	1	
20-99-10AA	U		12-Volt LED Brow light, front center of cab - Whelen Pioneer PFA2	1	
20-99-15AA	U		Keyed latch for DEF access cover	1	
20-99-20AA	U		Extend air tank moisture ejector cables to rubrail and label/tag	1	
20-99-25AA	U		Air horn control on pump panel	1	
			PUMP AND PLUMBING	1	MTL
30-12-3900			Packing for Waterous pumps	1	MTL
30-12-6500			Waterous CSU single stage 1500 IGPM	1	MTL
30-15-0203			Plumbing - Waterous manifold pump SM	1	MTL
			E		
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1002			Akron valves specified	1	MTL
30-20-1600			Piping stainless 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 - St. John's thread	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-21-5560			Tank to Pump SS 3" w/ check valve manifold pump	1	MTL
30-22-0520			Tank Fill valve 2" SS	1	MTL
30-31-4010			Suction - 6" not gated each side manifold pump	1	MTL
30-32-7535			Suction - 2-1/2" left side SS, bleeder, Waterous manifold pump	2	MTL
30-32-8035			Suction - 2-1/2" right side SS, bleeder, Waterous manifold pump	2	MTL
			pump		
30-40-2025			4" right discharge SS, plumbed 3", Waterous manifold pump	1	MTL
30-41-2025			2-1/2" RS discharge SS, bleeder, Waterous manifold pump	2	MTL
30-41-2525			2-1/2" LS discharge SS, bleeder, Waterous manifold pump	2	MTL
30-42-8520			1-1/2" rear discharge SS, plumbed 2"	2	MTL

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30-44-0520			1-1/2" crosslay (each) SS, 2" valve, bleeder	2	MTL
30-44-1020		>	1-1/2" front trash line SS, plumbed 2", hosewell	1	MTL
30-44-6520			Piping for monitor 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	1	MTL
			E		
30-51-6600			Class One Governor/Throttle	1	MTL
30-51-7000			Suction side relief V/V, manifold pump	1	MTL
30-51-7500			Primer electric vane type 12V with oil tank Waterous	1	MTL
30-51-8100			Heat exchanger included with chassis	1	MTL
30-51-8500	S		Pump cooler with control valve, check valve	2	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			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			Ultra-Tank water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-4000			Tank capacity 500 Imperial Gallons	1	MTL
40-12-5000			Foam cell - 30 Imperial gallon	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
			E		
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-0400			Rear dump valve not requested	1	MTL
40-31-6050			Rear fill not requested	1	MTL
			ELECTRICAL	1	MTL
50-11-0400			Base electrical system - Spartan multiplex	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
50-11-1400	S		Federal PA4000 siren - by Spartan	1	MTL
50-11-1620	S		Siren speaker, 100 watt, in front bumper - by Spartan	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) Red DS, Amber PS	1	MTL
50-12-8000			Additional body side intersection light not required	1	MTL
50-12-8521			Front flashers, intersection lights included with chassis, Whelen 600	1	MTL
50-12-8610	S		Rear LED flashers (pr)-Whelen red LED 700 with integral flasher	1	MTL
50-12-8810	S		Body side inter lts (pr)-Whelen red LED 600 with integral flasher	1	MTL
50-21-30AA	U		Go-Light, Model 3067 Stryker	2	
50-21-5110			Compartment lighting - LED tube lights in each compartment (flush doors) E	1	MTL
50-21-5500			Door Ajar warning light	1	MTL
50-21-8001			Step lights for body steps - 4" LED	1	MTL
50-21-8201	S		Step lights for chassis steps - LED by Spartan	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			Whelan 64 LED tail/brake-turn-backup module (pr)	1	MTL
50-31-6505	S		Ground lighting included with chassis - LED	1	MTL
50-31-6620			Ground lighting (4" LED) - side mount body	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
50-99-05AA	U		LED lights above rear tail board	1	
50-99-10AA	U		FRC 12-Volt Model FCA570-V08-ON LED flood light (ea)	2	
			BODY	1	MTL
60-10-1400	S		Single axle extruded aluminum body	1	MTL
60-10-15AA	U		Install embossed type deckplate over compartments	1	
60-10-4000			Tapered "beavertail" rear step supports	1	MTL
60-10-4500			Aluminum tread plate fender surround - single axle	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
60-10-6500			Bolt on extruded aluminum rub rail	1	MTL
60-10-70AA	U		Aluminum 1/2" x 1/2" x 1/8" protective chip guard on lower edge of compts	1	
60-11-0300		>	Front left side compartments full height	1	MTL
			E		
60-11-0700		>	Front right side compartments full height	1	MTL
			E		
60-11-1000		>	Rear left side compartments full height	1	MTL
			E		
60-11-1400		>	Rear right side compartments full height	1	MTL
			E		
60-11-2000		>	High side compartment (over 18") each	2	MTL
60-11-2500		>	Rear compartment at step level	1	MTL
60-11-3000		>	Rear compartment above intermediate step	1	MTL
60-11-4500			Flush mount aluminum door - single with "D" handle	3	MTL
60-11-4510			Flush mount aluminum door - double with "D" handle	5	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
60-31-5800	S		Full width step between the two rear compartments - diamond back	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	4	MTL
60-31-9600	S	>	Adjustable shelf (ea)	7	MTL
60-32-3570			Four 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	S		Chassis wheels not painted - Aluminum wheels	1	MTL
60-33-1000			Paint pump and plumbing job colour	1	MTL
60-33-1500			Buffed finish compartment interior	1	MTL
60-33-1600	S		Ladder tube(s) interior - gray zolatone	1	MTL
60-33-2200			Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
60-33-3200	S		Reflective stripe - 1" - 5" - 1" 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
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-40-4500			6" Hose tray - side mount (ea)	2	MTL
60-40-9000	S	>	Completely enclosed weather tight tube mount for ladders, with rear door	2	MTL
			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			Colour coded tags	1	MTL
70-11-4000	S		Stainless steel side panel hood right side	1	MTL
70-11-4100	S		Stainless steel side panel hood left side	1	MTL
70-11-42AA	U		LED Pump compartment light (pr)	1	
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

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
70-11-75AA	U		Heat Pan - Aluminum with neoprene rubber seals	1	
70-11-8000			Heater in pump compartment	1	MTL
70-20-0500	S		4-1/2" compound gauge - dual face 0-400	2	MTL
70-20-1500	S		2-1/2" pressure gauge - dual face 0-400	11	MTL
70-20-2500			Primer control	1	MTL
70-20-3100			Class One Governor Control	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			Heat exchanger control valve	1	MTL
70-20-7600			Pump cooler control valve	2	MTL
70-21-0110			Class One ENFO IV engine monitor J1939	1	MTL
70-21-1600			Electric Foam Level gauge not required	1	MTL
70-21-2000	S	>	Hourmeter - Pump hours	1	MTL
			ACCESSORIES	1	MTL
80-11-5000	S		6" x 10' lightweight suction hose (ea) Northline brand	2	MTL
80-13-0500			Rubber mallet	1	MTL
80-13-1000			Hose wrenches (double) with holder	2	MTL
80-13-1500			Bar with bracket	1	MTL
80-13-2500	S		Pike pole, fibreglass handle - 8' long	1	MTL
80-13-4000			Axe, pick head, fibreglass handle and bracket	2	MTL
80-14-0500	S		24' 2 section extension ladder Duo-Safety	1	MTL
80-14-5500	S		14' aluminum roof ladder Duo-Safety	1	MTL
80-16-0500			Akron 3423 Portable/deck monitor with stacked tips	1	MTL
80-18-0840			Pistol grip nozzle holder - ZICO NBM-2	2	MTL
80-99-05AA	U		Dixon Northline Piston Intake Relief Valve	1	
80-99-10AA	U		Akron Style 340 Barrel Strainer - 6"	1	
80-99-15AA	U		Akron Style 3405 18" upper deck monitor riser	1	
80-99-20AA	U		Akron Turbomaster 1755 Master stream fog nozzle	1	