



Shop Order-00-10-15: Unclassified

Carrier Truck Centers Inc.
 O/A Carrier Centers
 645 Athlone Place
 Woodstock, ON N4S 7V8

City of Greater Sudbury
 Sudbury, ON

Exp. Date: 08/19/2015
Quote No: RSUON-0010 **Job/Order No:** 18787
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

02/09/2017

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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	S		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
00-20-2000			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 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
10-11-2300			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 - By Carrier E	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
10-99-05AA	U		Bid Deposit - \$50,000.00	1	
10-99-10AA	U		Preconstruction Meeting - By Carrier	1	
			CHASSIS INFORMATION	1	MTL
20-11-1000	S		Chassis supplied by Metalfab - International 4300 4-dr	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
20-21-1030			Maximum riders sign - 5 persons	1	MTL
20-21-1510			Seat belt warning labels - 4 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

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
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			Alum tread fuel tank trim, Conv - 4 door	1	MTL
20-31-1900	S		Chassis cab painted black over red by International	1	MTL
20-31-4500	S		Extend front bumper, gravel shield	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		
20-41-1801			Battery boost terminals not required - batteries accessible	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			Master Battery Disconnect included with chassis	1	MTL
20-51-2500			Back up alarm included with chassis	1	MTL
20-51-3000	S		Air inlet with matching fitting - LS	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-6500			Kussmaul Autocharge 1000 battery conditioner w/battery saver	1	MTL
20-51-7101	S		Electric System Management not required - Diamond logic	1	MTL
20-51-7500	S		Super Auto eject for 120 v - 20 A with sealed enclosure	1	MTL
20-51-8500			Engine compartment lights (pair)	1	MTL
20-51-9000	S <		Air horns on hood	1	MTL
			Air horns will be installed on hood and plumbed to the chassis OEM controls (dash switch for Officer, switch on steering wheel for driver). The single black trumpet air horn under chassis engine bonnet will be removed.		
20-52-3000		>	Chassis steering wheel lined up by others	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
20-99-04AA	U <		Air Horn Switch	1	
			A heavy duty weatherproof push-button switch shall be installed at the pump operator's panel to operate the air horns. The switch shall be labeled "Evacuation Alert".		
20-99-05AA	U <		Three Storage Boxes in Extended Front Bumper	1	
			The front bumper extension shall be fitted with two outboard trays located outside the frame rails approximately 12" Deep. The tray floors shall have a drainage hole and be fitted with Turtle Tile matting.		
			The front bumper extension shall be fitted with one center tray located inside the frame rails approximately 12" Deep. The tray floor shall have a drainage hole and be fitted with Turtle Tile matting.		
			The trays shall be enclosed with a diamond plate lid with a "D" ring latch mechanism. The lids will be held open by a gas strut.		
			The trays are for storage only and do not require plumbing.		
			PUMP AND PLUMBING	1	MTL
30-11-3002	S		Waterous CXVPA PTO driven pump - 1050 IGPM	1	MTL
30-15-0304			Plumbing - non manifold pump SM SS	1	MTL
			E		
30-20-0500			Valves and controls - side mount panel	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-20-1002			<i>Akron valves specified</i>	1	MTL
30-20-1620			<i>Piping stainless steel - MG, DSD pumps</i>	1	MTL
30-20-1700	S		<i>1-1/2" thread specifications - NPSH E</i>	1	MTL
30-20-1800	S		<i>2-1/2" thread specifications - CSA E</i>	1	MTL
30-20-2000			<i>Piping hydrostatic test</i>	1	MTL
30-20-2510			<i>Anodes in suction and discharge piping -AP/MG/DSD</i>	1	MTL
30-21-5520	S		<i>Tank to Pump SS w/ check valve non manifold pump - see 30-21-95AA</i>	1	MTL
30-21-95AA	U	<	<i>4" Akron 7940 Air Activated Tank To Pump - SS Piping See SOPT</i>	1	
30-22-0520			<i>Tank Fill valve 2" SS</i>	1	MTL
30-31-4020			<i>Suction - 6" not gated each side SS non manifold pump 6" header</i>	1	MTL
30-32-7550			<i>Suction - 2-1/2" left side SS, bleeder, non manifold pump</i>	1	MTL
30-32-8050			<i>Suction - 2-1/2" right side SS, bleeder, non manifold pump</i>	1	MTL
30-40-3010			<i>4" right discharge SS, plumbed 4", handwheel, Hale manifold pump</i>	1	MTL
30-41-2040			<i>2-1/2" RS discharge SS, bleeder, non manifold pump</i>	1	MTL
30-41-2540			<i>2-1/2" LS discharge SS, bleeder, non manifold pump</i>	2	MTL
30-43-1520			<i>2-1/2" rear discharge SS, plumbed 2-1/2", bleeder</i>	1	MTL
30-44-0520			<i>1-1/2" crosslay (each) SS, 2" valve, bleeder</i>	2	MTL
30-51-1500	S		<i>Power shift PTO - Automatic transmission</i>	1	MTL
30-51-1501			<i>PTO driveshaft E</i>	1	MTL
30-51-6700		<	<i>FRC Pump Boss Governor/Throttle engine display PBA400</i>	1	MTL
30-51-7000			<i>Suction side relief V/V, manifold pump</i>	1	MTL
30-51-8100			<i>Heat exchanger included with chassis</i>	1	MTL
30-51-8500			<i>Pump cooler with control valve, check valve</i>	1	MTL
30-52-1000			<i>Master drain V/V, 12 port</i>	1	MTL
30-52-2000			<i>Drain valve for foam system header</i>	1	MTL
30-52-5510		<	<i>Foam system-Hypro FoamPro 2001 Single Tank Plumbed to the 2-1/2" left rear discharge, and the 1-1/2" Mattydales (2).</i>	1	MTL
30-52-8100			<i>Electric foam fill pump with panel pickup</i>	1	MTL
30-52-9100			<i>Foam concentrate label at foam tank fill</i>	1	MTL
30-52-9200			<i>Foam System Instruction Plates</i>	1	MTL
30-52-9400			<i>NFPA Foam System certification test</i>	1	MTL
30-99-05AA	U	<	<i>Trident Air Primer - Single Location The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multi stage, venturi based Air Prime System. All wetted metallic parts of the priming system are to be brass and stainless steel construction. A single panel mounted control will activate the priming pump and open the priming valve to the pump. The priming system shall have a five year warranty. Three barrel primer Add an additional air tank</i>	1	
			WATER AND FOAM TANKS	1	MTL
40-11-2100			<i>Ultra-Tank water tank (Imperial gallons)</i>	1	MTL
40-11-2200			<i>Water tank capacity certification (tank manufacturer)</i>	1	MTL
40-11-4000			<i>Tank capacity 500 Imperial Gallons</i>	1	MTL
40-12-4700	S	<	<i>Foam cell - 30 US gallon Foam fill tower to be green or yellow Capacity of foam cell engraved on fill tower lid</i>	1	MTL
40-21-1000			<i>4" tank to pump connection</i>	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
40-22-0500			2" tank fill connection	1	MTL
40-30-0400			3" plug in sump box	1	MTL
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
50-11-0450			Base electrical system - International Diamond Logic 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
50-11-0900			Rocker switch panel with master warning switch	1	MTL
50-11-1400	S <		Whelen 295SLSA1 100 W Siren 1570957	1	MTL
50-11-1620	S <		Siren speaker,100 watt, in behind grille/bumper 1570803 - Whelen SA315P	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
50-11-6610			Rear LED Traffic Advisor warning lights - flush mount	1	MTL
50-11-8001	>		Rear beacons not required	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
50-12-8810	S		Body side inter lts (pr)-Whelen red LED 600 with integral flasher	2	MTL
50-21-2540			FRC telescoping SPECTRA LED 12V flood (ea)	2	MTL
50-21-5110			Compartment lighting - LED tube lights in each compartment (flush doors) E	1	MTL
50-21-56AA	U <		Hazard - Door Ajar Light There shall be a red LED hazard light (Whelen 5SR00FRR) located center overhead with a buzzer.	1	
50-21-8001			Step lights for body steps - 4" LED	1	MTL
50-21-8201	S		Step lights for chassis steps - LED	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-22-0750	S		Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr)	1	MTL
50-31-6610			Ground lighting (4" LED) - 4 door chassis	1	MTL
50-31-6620	<		Ground lighting (4" LED) - side mount body Ground light switch shall also activate pump panel lights and lights for rear step. These lights shall also activate when the park brake is actuated.	1	MTL
50-35-0560	S		VHF antenna base - commercial chassis	2	MTL
50-99-05AA	U <		FRC 12-Volt Spectra SPA900-Q65 Scene Lights (pair) Two FRC Spectra SPA900-Q65 Scene Lights are installed, one each side, on the rear upper corners of the apparatus body.	1	
50-99-10AA	U <		3000 Watt Digital Inverter A 3000 W 12V DC to 120 AC inverter shall be installed in the apparatus. Metalfab P/N 1031834, CT P/N 011-1846-6 The inverter shall be connected to a 6 place power bar. - See SOPT Location of Inverter and power bar - high in L1 (LS front	1	

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			compartment)		
50-99-15AA	U	<	Hosebed Cover LED Lights - 40" H20 Lumabars There shall be two 40" LED Lumabar lights (1562591) installed on each hose bed cover to illuminate the hose bed area. Lights to be wired to actuate when the covers are raised and be tied into the door ajar warning system.	1	
			BODY	1	MTL
60-10-1400			Single axle extruded aluminum body	1	MTL
60-10-4100			No "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
60-10-5450	S	< >	Diamondback 10" rear step The rear step will be 10 inches deep, made of open strut aluminum with non slip surface, and rigidly reinforced. The corners of the rear tailboard shall be angled inward for increased clearance around the rear of the apparatus. Ref page 61 of RFP.	1	MTL
60-10-6500			Bolt on extruded aluminum rub rail	1	MTL
60-11-0300		>	Eront 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		>	High side compartment (over 18") each	2	MTL
60-11-3200		>	Full Height Rear compartment	1	MTL
60-11-4500			Flush mount aluminum door - single with "D" handle	6	MTL
60-11-4510			Flush mount aluminum door - double with "D" handle	1	MTL
60-31-4100			Extruded aluminum handrails	1	MTL
60-31-5500	S		Steps at rear of body (folding and lighted)	1	MTL
60-31-5600	S		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 ***Hardware requires 3-1/2" of compartment height. Hardware to be have 100% Extension. Reflective stripe is applied on the exposed edge for visibility when the compartment door is open. Trays are installed in the following compartments at floor level; R1 and B1	2	MTL
60-31-9600	S	< >	Adjustable shelf (ea) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Locations of shelves is as follows; One (1) in L1 - full depth Two (2) in L3 - both full depth Two (2) in R1 - one full depth and one shallow depth One (1) in R3 - shallow depth Two (2) in B1 - both full depth	8	MTL
60-32-3500			One adjustable hose divider	1	MTL
60-32-7500	S	<	Hose bed - aluminum Hose capacity - 700' of 4" hi-vol rubber hose (approx 625 lb)	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			600' of 2-1/2" double jacket attach line (approx 375 lb)		
			Storage area ahead of front divider to be large enough for storing a portable ground monitor		
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
60-33-1600			Special paint compartment interior - gray zolatone	1	MTL
			E		
60-33-2200	<		Lettering - 80 letters up to 3" tall - 3 colour	1	MTL
			*** Vinyl letters, Fire Department to provide details on location and text.		
			Two Department supplied crests shall be installed as directed.		
60-33-3000	<		Reflective stripe - 4" white	1	MTL
			50% of perimeter each side and 25% of perimeter front		
			There shall be a 3/4" black Scotchlite stripe at paint line on chassis		
60-33-3310	<		Reflective stripe - red and yellow chevron at rear	1	MTL
			Chevron to be on rear facing extrusions, panels, doors inboard and outboard.		
60-33-3600			Reflective stripe - inside entry doors	1	MTL
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-33-5000	<		Aluminum cover over hose bed with end tarps - black	1	MTL
			E		
			2 handles each cover, 1 front and 1 rear		
			Covers are to be wired to the door ajar indicator light in cab		
			The top of the end tarps shall be mechanically attached to the rear hose bed cover. The lower portion shall be secured in place with heavy duty nylon straps (Metalfab standard Velcro straps).		
60-40-4500			6" Hose tray - side mount (ea)	2	MTL
60-40-9000	S < >		Tube mount for ladders, with rear door	1	MTL
			To house the following:		
			1 - 24' 3 section ladder 80-14-0510		
			1 - 12' roof ladder 80-14-5000		
			1 - 10' attic ladder 80-14-8500 (ref also 60-41-1500)		
			2 - Pike poles 80-13-2100 (ref also 60-41-1000)		
			The hinged door shall be fitted with "D" Handle latch for easy access. The floor of the tunnel shall be fitted with replaceable nylon slides to permit easy removal and storage of the ladders.		
60-41-1000	S		Pike Pole tube	2	MTL
60-41-1500	S		Attic ladder tube	1	MTL
60-99-05AA	U <		Gear Grid Toolboards	2	
			There shall be two Gear Grid wire mesh swing out tool boards installed on the truck. The panel shall be painted red and fitted with flashing warning lights when deployed (as supplied by Gear Grid). There shall be one in each the R2 and L2 compartments.		
			The L2 compartment will be equipped with a double panel tool board (25" deep compartment)		
			The R2 compartment will be equipped with a single panel tool board (12" deep compartment)		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-99-20AA	U	<	Body Corner Guards The forward corner of the body shall have corner guards installed. The corner guards shall be constructed of .063" aluminum tread plate. Ref page 61 in RFP.	1	
			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
70-11-4099	U		Stainless Steel Side Panel hood w/LED Lights - RS	1	
70-11-4199	U		Stainless Steel Side Panel Hood w/LED Lights - LS	1	
70-11-5100	S	<	Storage at rear top of pump house ****Interior of bin to be deckplate**** Black Interlocking tile will be installed on floor This compartment will be lighted to meet ULC	1	MTL
70-11-52AA	U	<	Hinged Deckplate Cover over Dunnage Area There shall be a hinged Aluminum deckplate cover above the dunnage storage compartment. The lid shall incorporate a hold open device and a D ring latch handle. The door will activate the Door Ajar warning light in cab and the lighting in this compartment.	1	
70-11-52BB	U	<	Dunnage Compartment Lift Up Side Doors The ends of the dunnage compartment shall be fitted with lift up checker plate doors, one each side, to facilitate the storage of long handle tools and equipment. The doors shall incorporate a gas shock hold open device and latching door mechanism. Each door will activate the Door Ajar warning light in cab and the lighting in this compartment.	1	
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	2	MTL
70-20-0500			4-1/2" compound gauge - dual face 0-600	2	MTL
70-20-1500			2-1/2" pressure gauge - dual face 0-600	7	MTL
70-20-3200			FRC Pump Boss Governor Control	1	MTL
70-20-35AA	U	<	FRC Tank Vision Water Level Gauge Fire Research TankVision WL200-A00 water tank volume indicator kit shall be installed.	1	
70-20-6500			Test gauge panel	1	MTL
70-20-7500			Heat exchanger control valve	1	MTL
70-20-7600			Pump cooler control valve	1	MTL
70-21-15AA	U	<	FRC TankVision Foam Level Gauge One Fire Research TankVision model WL260-A00 Class A foam tank volume indicator kit shall be installed.	1	
70-21-2100		>	PTO Hourmeter	1	MTL
70-21-5500	S	<	Panel readout for Battery Conditioner Located next to Auto Eject inlet	1	MTL
70-99-04AA	U	<	Fuel Gauge on Pump Panel A 2" weatherproof engine fuel gauge shall be pump panel mounted.	1	
70-99-05AA	U	<	Gasket Disc/Intake Pump Panel All intakes and discharges shall have a gasket material provided on the pump panel to hold in the heat of the	1	

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			plumbing.		
70-99-10AA	U	<	Gauge Heater Lines A completely automatic MC Products gauge line heater control module on pump operator's panel with name plate and four strip heaters shall be installed on the pump panel. Heater control module comes complete with four heat strips. One for each compound gauge, two for two of the pressure gauges (additional strip heaters see 70-99-15AA). Engineering to determine the length of strips required (36" or 52")	1	
70-99-15AA	U	<	Additional Gauge Heater Strips Additional heater strips shall be installed on the remainder of gauge lines at the pump panel. Engineering to determine the length of strips required (36" or 52")	1	
71-21-3100	S	>	Transmission warning light (automatic transmission) ACCESSORIES	1	MTL
80-11-5000			6" x 10' lightweight suction hose (ea)	2	MTL
80-12-2500			6" barrel strainer	1	MTL
80-13-0500			Rubber mallet	1	MTL
80-13-2100			Pike pole, 10' wooden handle	2	MTL
80-14-0510			24' 3 section extension ladder PEL3 24	1	MTL
80-14-5000			12' aluminum roof ladder PRL-12	1	MTL
80-14-8500			10' aluminum folding attic ladder FL-10	1	MTL
80-18-0600			SCBA brkt w/strap - ZICO ULLH - crew cab mount	4	MTL
80-99-05AA	U		6" FNH x 4" Storz Adapters & Caps	2	
80-99-10AA	U	<	Streamlight Vulcan rechargeable hand lamps The apparatus shall be supplied with four Streamlight Vulcan rechargeable hand lamps with 12 volt chargers mounted inside the cab and wired to the 12V electrical system Metalfab to provide 12 volt power from battery (not switched through master battery disconnect) to area between front seats. Customer to determine best mounting location as there is no console in this vehicle.	4	