



# Shop Order

Mabou Fire Department  
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**Exp. Date:** / /  
**Quote No:** JMANS-0014  
**Job/Order No:** 22131  
**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

07/21/2022

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PART NO	S	DESCRIPTION	QTY	ID
		<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b>		<b>MTL</b>
		<b>CHANGE ORDER C</b>		<b>MTL</b>
00-05-0010		Dealer - Metalfab	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>00-20-1700</b>		<b>Hale Pump Warranty - 5 years</b>	<b>1</b>	<b>MTL</b>
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
<b>00-20-3000</b>	<b>S</b>	<b>No Bonding Requested</b>	<b>1</b>	<b>MTL</b>
00-20-3500		Certification for Fusion Welding of Steel and Aluminum	1	MTL
00-20-4000		Quality System registered to ISO 9001:2015	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		<b>GENERAL INFORMATION</b>		<b>MTL</b>
10-11-0000		Intent	1	MTL
10-11-0105		Vehicle Data Recorder not requested	1	MTL
10-11-1100		ULC S515-13 Compliance	1	MTL
10-11-1500		> ULC Testing - Pumper - Imperial units of measure	1	MTL
		<b>ENG. NOTE:</b>		
		Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100		Maximum length not specified	1	MTL
10-11-2200		Maximum height not specified	1	MTL
<b>10-11-2400</b>		<b>Overall length is 30' or more</b>	<b>1</b>	<b>MTL</b>
10-11-2500		General Construction	1	MTL
10-11-3000		Manuals - two copies	1	MTL
		***Two copies of chassis manuals are required.		
<b>10-11-3600</b>	<b>S</b>	<b>&gt; Delivery - FOB Fire Department</b>	<b>1</b>	<b>MTL</b>
		<b>ENG. NOTE:</b>		
		Note in the shop note if more than 4 hours of training is required		
		<b>Full day of training included</b>		
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
<b>10-20-1400</b>	<b>S</b>	<b>&gt; Hose capacity exceeding ULC/NFPA requirements - Additional weight: 500 lbs</b>	<b>1</b>	<b>MTL</b>
		<b>ENG. NOTE:</b>		
		Specify the type of hose and quantity of hose to be carried on the vehicle		
		Hose bed will carry the following from left to right:		
		800' of 4" rubber hi-vol		
		400' of 1.75" hose		
		400' of 2.5"		
		As discussed at the pre-construction meeting of 07.08.2021		

PART NO	S	DESCRIPTION	QTY	ID
10-20-2000		<b>Equipment carrying capacity - standard ULC Pumper</b> This vehicle is designed to carry the standard ULC miscellaneous equipment load of 2000 pounds	1	MTL
		<b>CHASSIS INFORMATION</b>		
20-11-1000	S	<b>Chassis supplied by Metalfab - Freightliner M2 112, 2-door</b> 45,600 lbs GVWR, 14,600lbs front axle, 31,000lbs rear axle 231" WB, 165.75" CA and rear overhang 100" Cummins L9 450 hp @ 2100 RPM, 2200 governed RPM, 1250 lb-ftb @ 1200 RPM Allison 3000 EVS transmission, 6-speed, Pkg 198 programming Driveline series 1710 Rear leaf suspension with locking rear differential and ESC 69 MPH road speed 275 amp alternator 189 Litre fuel tank - left side LED headlights No rear cab window A/C Power windows and manual door locks Single color red - L3240EY to match International 2303 red of M13-17165 Paint Approval received at pre-construction meeting of 07.08.2021	1	MTL MTL
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600	S	<b>Chassis Motor Vehicle Inspection as supplied by chassis dealership</b>	1	MTL
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
20-21-1560		LED Tire Pressure Indicators - Single Axle	1	MTL
20-21-1600		Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"	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
20-31-0500		<b>Alum tread fuel tank trim, Conv - 2 door</b> Vertical trim only, OEM cab steps remain	1	MTL
20-31-1900	S	<b>Chassis cab painted single color by chassis OEM</b>	1	MTL
20-31-7500	S	<b>Console in cab</b> Install the following: 30-51-0400 - PTO Pump switch 50-11-1400 - Siren 50-11-6615 - Traffic advisor 50-35-0500 - Customer supplied radios 70-21-2100 - PTO hourmeter Storage area with hinged cover and lift and turn latch provided at rear of console. Gray zolatone finish Department approved layout similar to Front of Yonge, ON at pre-construction meeting of 07.08.2021	1	MTL
20-41-0600	S	<b>Intake air shutoff for engine not requested</b>	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 Engineering to specify exhaust pipe material as required by the chassis	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.		
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
<b>20-41-5010</b>		<b>Rear Tow Hooks - through rear of body</b> <b>*** Flat bar tow hooks through rear of body with rubber seals and stainless steel slotted plates</b>	<b>1</b>	<b>MTL</b>
<b>20-51-0710</b>		<b>Master Battery Disconnect included with Freightliner chassis</b>	<b>1</b>	<b>MTL</b>
<b>20-51-2500</b>		<b>Back up alarm included with chassis</b>	<b>1</b>	<b>MTL</b>
20-51-3400		Protection valve installed for air operated accessories	1	MTL
<b>20-51-4000</b>		<b>Auto eject for air inlet - LS</b> <b>To be located on LS chassis step</b>	<b>1</b>	<b>MTL</b>
<b>20-51-6200</b>	<b>S</b>	<b>&gt; 120 volt 20 A shore line connection in chassis cab</b> <b>ENG. NOTE:</b> Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet  <b>Standard 5-20R duplex receptacle in chassis cab, not fused</b> <b>Locations</b> <b>1. on back wall of cab for battery conditioner</b> <b>2. L1 compartment - upper left side</b> <b>12" from floor to meet ULC</b> <b>As discussed at the pre-construction meeting of 07.08.2012</b>	<b>2</b>	<b>MTL</b>
<b>20-51-6500</b>		<b>Kussmaul Autocharge 1000 battery conditioner w/battery saver</b> Located back side of console / floor area and plugged into shoreline 20-51-6200	<b>1</b>	<b>MTL</b>
<b>20-51-7101</b>	<b>S</b>	<b>Electric System Management VMUX</b>	<b>1</b>	<b>MTL</b>
<b>20-51-7500</b>		<b>Super Auto eject for 120 v - 20 A with sealed enclosure</b> To be located on LS chassis step	<b>1</b>	<b>MTL</b>
<b>20-51-8505</b>		<b>Engine compartment light included with chassis</b> The light will be controlled by the OEM switch on the chassis dash	<b>1</b>	<b>MTL</b>
<b>20-51-9001</b>	<b>S</b>	<b>Air horns and controls as supplied by chassis OEM</b> Horns to be located on hood and lanyard controls at both driver and officer seating position	<b>1</b>	<b>MTL</b>
<b>20-52-0010</b>		<b>Air horn control/actuation on pump operators panel</b> Label as "Air Horn" unless otherwise specified	<b>1</b>	<b>MTL</b>
<b>20-52-3500</b>		<b>&gt; Chassis steering wheel lined up by Metalfab</b> <b>ENG. NOTE:</b> Freightliner, Sterling, and Spartan only	<b>1</b>	<b>MTL</b>
<b>20-52-4001</b>		<b>Rear View Camera system 7"</b> Rearview Systems STM7000 with 7" colour monitor mounted on cab dash	<b>1</b>	<b>MTL</b>
20-60-0400		Chassis wheelbase does not change	1	MTL
		<b>PUMP AND PLUMBING</b>		<b>MTL</b>
<b>30-11-3012</b>	<b>S</b>	<b>&lt; &gt; Hale RSD PTO driven pump - 1050 IGPM</b> SOPT #1105 - truck specific  <b>ENG. NOTE:</b> Need to add packages (PTO, Pump and roll, plumbing, primer, SSRV, etc.)  <b>Hale RSD-J gearbox will not require special oil as per pump specifications</b>	<b>1</b>	<b>MTL</b>
<b>30-15-0304</b>		<b>Plumbing - non manifold pump SM SS</b>	<b>1</b>	<b>MTL</b>
30-20-0500		Valves and controls - side mount panel	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-20-1003		<i>Elkhart valves specified</i>	1	MTL
30-20-1600		<i>Piping stainless steel - general</i>	1	MTL
30-20-1700	S	<i>1-1/2" thread specifications NPSH</i>	1	MTL
30-20-1800	S	<i>2-1/2" thread specifications NSZ1</i>	1	MTL
		Department to supply sample thread for testing purposes		
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2510		<b>Anodes in suction and discharge piping - non manifold pump</b> Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.	1	MTL
30-21-9600	U	<b>Tank to pump 4" Ball Valve SS, handwheel control, check valve non manifold pump</b>	1	
30-22-0520		<b>Tank Fill valve 2" SS</b>	1	MTL
30-31-4020	S	<b>Suction - 6" gated each side SS non manifold pump 6" header</b> Order with 6" x 6" tubes	1	MTL
30-31-7100		> <b>Hale master intake suction valve - handwheel control</b> <b>ENG. NOTE:</b> Not available for top mount panels Hale pumps only Note location in Shop Note	2	MTL
		Suction to be gated are left and right with both controls on the left side pump panel		
30-32-7550		<b>Suction - 2-1/2" left side SS, bleeder, non manifold pump</b>	1	MTL
30-40-2006		<b>4" right discharge, plumbed 3", non manifold pump</b>	1	MTL
30-41-2040		<b>2-1/2" RS discharge SS, bleeder, non manifold pump</b> End cap not required - included in 80-99-20AA adapter	1	MTL
30-41-2540		<b>2-1/2" LS discharge SS, bleeder, non manifold pump</b> End cap not required - included in 80-99-20AA adapter	2	MTL
30-42-8520	S	<b>1-1/2" rear discharge SS, plumbed 2"</b> Installed on each side of the walkway at the front of the hose bed Load capacity: 200' single stack on the left side of the walkway 200' single stack on the right side of the walkway The connection can be behind the front partition to allow use of hose wrench and make lay as narrow as possible for single lay As discussed at the pre-construction meeting of 07.08.2021	2	MTL
30-43-1520	S	<b>2-1/2" rear discharge SS, plumbed 2-1/2", bleeder</b> *** Both right Side as shown on proposal drawing End cap not required - included in 80-99-20AA adapter	2	MTL
30-44-6520	S	<b>Piping for monitor SS, plumbed 3", bleeder</b> Make and Model of Monitor - Akron Direct Mount 3423 (80-16-05AA) The monitor will be centered from front to back and left to right unless otherwise specified Base of monitor to be flush with top of pump house to allow 360-degree rotation	1	MTL
30-51-0400		<b>Pump shift - PTO Pump and Roll</b> ***Includes "Pump Engaged" indicator lights in cab and on the pump panel ***Includes "Throttle Ready" indicator light on Pump operating panel Includes indicator light showing "OK TO PUMP" when transmission is in neutral, park brake is set, and PTO control energized. The remote electronic throttle will be energized in this mode. Includes indicator light showing "OK TO PUMP AND ROLL" when the transmission is not in neutral, the park brake is not set, and the PTO control is energized. The remote electronic throttle will not be energized in this mode. *** The indicator lights will be located above the driver seat position ***	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-51-1500		<b>Power shift PTO - Automatic transmission</b>	1	MTL
30-51-1501	>	<b>PTO driveshaft</b>	1	MTL
		<b>ENG. NOTE:</b> Quantity of 2 for pumps mounted on 4 door cabs due to length		
30-51-6800		<b>FRC InControl Governor/Throttle engine display with throttle knob</b>	1	MTL
30-51-7000	S	<b>Suction side relief V/V, non manifold pump</b>	2	MTL
30-51-7716		<b>Trident Automatic Air Primer 3 barrel 3 location</b> Location #1 - Main Pump Location #2 - Left side MIV pre-primer Location #3 - Right side MIV pre-primer	1	MTL
30-51-7720		<b>Additional air tank for air primer system</b> An additional air tank is provided to improve air primer capacity	1	MTL
30-51-8100		<b>Heat exchanger included with chassis</b>	1	MTL
30-51-9000		<b>Thermal Relief Valve</b> Order separate from pump Light and alarm not requested	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		<b>Drain valve for foam system header</b>	1	MTL
30-52-5510		<b>Foam system-Hypro FoamPro 2001 Single Tank</b> Foam system is plumbed to both rear 1.5" , both rear 2.5" discharges and the monitor.	1	MTL
30-52-9100		<b>Foam concentrate label at foam tank fill</b>	1	MTL
30-52-9200		<b>Foam System Instruction Plates</b>	1	MTL
30-52-9400		<b>NFPA Foam System certification test</b>	1	MTL
		<b>WATER AND FOAM TANKS</b>		MTL
40-11-2100		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-6000		<b>Tank capacity 1400 Imperial Gallons</b>	1	MTL
40-12-4500		<b>Foam cell - 20 Imperial gallon</b>	1	MTL
40-21-1000		<b>4" tank to pump connection</b>	1	MTL
40-22-0500		<b>2" tank fill connection</b>	1	MTL
40-23-0500	S	<b>3/4" water level gauge connection</b>	1	MTL
40-23-1050	S	<b>4" Fireman's Friend connection - Offset to right</b>	1	MTL
40-23-1060	S	<b>10" Newton dump connection - Offset to left</b>	1	MTL
40-30-0500		<b>Sump drain valve (3" gate valve) with linkage</b>	1	MTL
40-30-1000		Water Fill Box front left corner	1	MTL
40-31-3500		<b>10" rear Newton dump, stainless steel</b> Offset left of center in back compartment	1	MTL
40-31-3600		<b>Newton dump - stainless steel 36" telechute</b>	1	MTL
40-31-5500	S	<b>Electric operator for Newton dump, top mount , single switch</b> Switch located on back of body over the left side tail light module as discussed at the pre-construction meeting of 07.08.2021	1	MTL
40-31-9000		<b>4" Storz rear fill, Fireman's Friend</b> Offset to right of compartment Leave ample room to use wrenches and coupling to be as close to rollup door to make connecting as easy as possible	1	MTL
		<b>ELECTRICAL</b>		MTL
50-11-0300		<b>Base electrical system - multiplex</b>	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 As required by ULC and NFPA standards	1	MTL
50-11-0900	S	<b>Rocker switch panel with master warning switch - at chassis ceiling</b> ***Rocker switch assignments: <b>MASTER</b> -LIGHT BAR RED -LIGHT BAR CLEAR	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		-REAR BEACONS -FLASHING WARNING		
		-REAR FLOODS -LS SCENE -REAR SCENE -RS SCENE -DITCH LIGHTS -LS TELE -RS TELE -Water Level gauge (70-20-35AA) There is room for 15 switches in the headliner		
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620	>	Siren speaker,100 watt, in front bumper - Federal AS124 <b>ENG. NOTE:</b> AS124 speaker 1570860	1	MTL
50-11-2600		<b>Siren to be accessible to driver and officer</b>	1	MTL
50-11-5812	<	<b>Federal LPX53DS - NFPA LED light bar</b> SOPT #798	1	MTL
		The white flashers will be active when the park brake is deactivated and will be controllable with a switch in the rocker switch panel (50-11-0900)		
50-11-6615	<	<b>Rear LED Traffic Advisor warning lights - TAM83 - surface mount - 30.45" long</b> SOPT #823 TIR3 super LED lights - includes TACTL5 controller	1	MTL
50-11-9010	<	<b>Rear beacons - Federal NVG10 LED (pr) - both red - no height restriction</b> SOPT #1063 - truck specific  Will be mounted on Scene Light boxes 50-31-6010	1	MTL
50-12-5020	S	<b>Front LED flashers (pr)-red Federal QL43 RED</b>	1	MTL
50-12-5210	S	<b>Front side inter lts (pr)-red LED Federal QL43 RED</b>	1	MTL
50-12-5310	S	<b>Body side inter lts (pr)-red LED Federal QL43 RED</b>	1	MTL
50-12-8000		<b>Additional body side intersection light not required</b> Distance between front and rear side intersection light does not exceed 25'	1	MTL
50-21-1505		<b>Rear floods (pr) Unity LED</b> Switched in cab and when the transmission is placed in reverse gear Note that these lights are also used as rear step lights and cannot be managed	1	MTL
50-21-1610	<	<b>Parking (ditch) lights in rear fenders - LED in stainless steel housings</b> SOPT #160a  Switched in cab and when transmission is placed in reverse gear These lights can be managed to shed	1	MTL
50-21-2531	U	<b>FRC telescoping Spectra LED 12V flood (ea)</b> Model # SPA530-Q15-SW-NS-SR-A Located on front of the pump house, one each side These lights can be wired to shed Equipment not stored light (50-21-5550) Location of switch to be in cab with 50-11-0900	2	
50-21-5100	>	<b>Compartment lighting - LED tube lights in each compartment (rollup doors)</b>  <b>ENG. NOTE:</b> Rollup doors only  Compartment over rear wheels to have a 4" round recessed LED light	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-21-5500		<b>Door Ajar warning light</b> Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" Over driver seating position Zico Access ladder (60-31-5000) is wired to this light	1	MTL
50-21-5550		<b>Equipment rack not stowed warning light</b> Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" Over driver seating position One (1) for Zico Porta Tank Rack (60-41-6001) and LS Extenda light One (1) for Zico Ladder Rack (60-41-9001) and RS Extenda light	2	MTL
50-21-8001		<b>Step lights for body steps - 4" LED</b> Switched when park brake is set	1	MTL
50-21-8200	S	<b>LED Lumabar for chassis steps - 2 door chassis</b> Switched when park brake is set	1	MTL
50-21-83AA	U	<b>LED Lumabar for Zico Access ladder and rear step surfaces</b> Switched when park brake is set	1	
50-21-8600		LED clearance lts and reflectors	1	MTL
50-21-8800		<b>LED intermediate turn signal/clearance/reflector length &gt;30'</b>	1	MTL
50-22-0800		<b>Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)</b> Requires additional TecNiq module to be mounted in rub rail due to Zico Access ladder	1	MTL
50-31-6010	S	<b>Scene light boxes (pr) - painted job color</b> The boxes will not be mounted to the fender top. As discussed at the accessories meeting	2	MTL
50-31-6021	<	<b>Scene lights (pr) - Whelen C9SL LED - left side upper</b> SOPT #39c  Located in upper front and rear corner body sides Switched in cab These can be managed to shed	1	MTL
50-31-6022	<	<b>Scene lights (pr) - Whelen C9SL LED - rear facing</b> SOPT #39c  Located in upper rear corner of body Switched in cab and when transmission is placed in reverse These can be managed to shed	1	MTL
50-31-6023	<	<b>Scene lights (pr) - Whelen C9SL LED - right side upper</b> SOPT #39c  Located in upper front and rear corner body sides Switched in cab These can be managed to shed	1	MTL
50-31-6550		<b>Ground lighting (LED Lumabar) - 2 door chassis</b> Switched when park brake is set	1	MTL
50-31-6570		<b>Ground lighting (LED Lumabar) - side mount body</b> Switched when park brake is set	1	MTL
50-35-0500	S	<b>Installation of customer supplied mobile radio</b> Radio information list required Powered through master switch VHF Motorola CM200d and TMR XTL 1500 were logged into inventory on 03.30.2022	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-35-0560	S	<b>VHF antenna with base - commercial chassis</b> Install behind light bar and as far apart from other antenna as possible Antenna to be trimmed to 154.000 MHZ as advised by customer's radio supplier Highland Mobile Radio on 03.30.2022	1	MTL
50-35-0590		<b>Cellular/TMR antenna with base - commercial chassis</b> Install behind light bar and as far apart from other antenna as possible	1	MTL
50-35-06AA	U	<b>Magnetic Mic Mount brand</b> For customer supplied radio mic Mounting Location TBD or ship loose for customer install.	2	
50-99-10AA	U	<b>Hose bed lights - LED Lumabar</b> There will be four (4) x 12" Lumabars supplied and installed on the front partition Switched when park brake is set	1	
50-99-25AA	U	<b>LED lighting for walkway in center hose bed</b> 3 x 20" Lumabar Switched when park brake is set	1	
<b>BODY</b>				
60-10-1400	S	<b>Single axle extruded aluminum body</b> Upper portion of the pump house will be painted plate job color - as discussed at the pre-construction meeting of 07.08.2021	1	MTL MTL
60-10-15AA	U	<b>1" drop on lower edge of compartment floor - sweep out type</b>	1	
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600	S	<b>Painted fender surround</b> The rear fender surround will be painted job color as discussed at the pre-construction meeting of 07.08.2021	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400	>	Diamondback pumphouse steps <b>ENG. NOTE:</b> Maximum height of step is 24" from ground	1	MTL
60-10-5430	>	Diamondback 19" rear step <b>ENG. NOTE:</b> Maximum height of rear step is 24" from ground	1	MTL
60-10-5452	U	<b>Recessed platform step in hose bed / rear of body</b> Stepping surface in diamondback material - step will be 12" deep Delineation markings not required for ULC	1	
60-10-6000		Extruded rub rail	1	MTL
60-11-0200	>	<b>Front left side compartments intermediate height</b> <b>ENG. NOTE:</b> Specify critical dimensions in shop note	1	MTL
60-11-0600	>	<b>Front right side compartments intermediate height</b> <b>ENG. NOTE:</b> Specify critical dimensions in shop note	1	MTL
60-11-0900	>	<b>Rear left side compartments intermediate height</b> <b>ENG. NOTE:</b> Specify critical dimensions in shop note	1	MTL
60-11-1300	>	<b>Rear right side compartments intermediate height</b> <b>ENG. NOTE:</b> Specify critical dimensions in shop note	1	MTL
60-11-1900	>	<b>Low side compartment (up to 18") each</b> <b>ENG. NOTE:</b>	2	MTL



PART NO	S	DESCRIPTION	QTY	ID
		Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body		
		<b>Will have flip up doors (60-11-4535)</b>		
60-11-3200	>	Full Height Rear compartment <b>ENG. NOTE:</b> Specify critical dimensions in shop note	1	MTL
<b>60-11-4535</b>	<b>U</b>	<b>Flush mount aluminum door - single with "D" handle</b> <b>Flip up door on low side compartments (60-11-1900)</b>	<b>2</b>	
<b>60-11-5510</b>	<b>S</b>	<b>Rollup door - intermediate height - L1, L3, R1 and R3 compartments</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	<b>4</b>	<b>MTL</b>
<b>60-11-5520</b>	<b>S</b>	<b>Rollup door - full height - B1 compartment</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	<b>1</b>	<b>MTL</b>
<b>60-11-5530</b>	<b>S</b>	<b>Rollup door - to enclose LS pump panel</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	<b>1</b>	<b>MTL</b>
<b>60-11-5654</b>		<b>Amdor pull strap not requested</b>	<b>4</b>	<b>MTL</b>
<b>60-11-5654</b>		<b>Amdor pull strap not requested</b>	<b>1</b>	<b>MTL</b>
<b>60-11-5660</b>	<	<b>Amdor pull straps - Flex - HD (for door opening 49"-70")</b> SOPT #1114 - truck specific	<b>1</b>	<b>MTL</b>
		<b>There will be an Amdor FLEX HD strap supplied and installed on the pump panel rollup door (60-11-5530)</b>		
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
<b>60-31-5000</b>		<b>Zico access Ladder at rear of unit</b> Minimum 7" clearance between rung and any obstruction Includes additional TecNiq turn signal / brake light in rear step rub rail Switch to be wired to Door Ajar Warning circuit to indicate when ladder is not in stowed position	<b>1</b>	<b>MTL</b>
<b>60-31-5600</b>		<b>Steps and grab handles at front of body next to pump panel</b> Maximum height between steps is 18" RS only where LS has rollup door - two (2) only required	<b>1</b>	<b>MTL</b>
60-31-6500		Compartment matting - black plastic interlocking tile	1	MTL
<b>60-31-82AA</b>	<b>U</b>	<b>Adjustable divider for seven (7) slots</b> There will be seven slots for rolled hose supplied and installed on the sliding tray (60-31-8800) in the L1 compartment. The dividers will be adjustable to allow various size hoses to be stored. As discussed at the pre-construction meeting of 07.08.2021	<b>1</b>	
<b>60-31-8800</b>	<b>S</b>	<b>&gt; Sliding tray (ea) - 600 pound capacity - 70% extension</b> <b>ENG. NOTE:</b> Specify location	<b>4</b>	<b>MTL</b>
		<b>***Hardware requires 3-1/2" of compartment height</b> <b>White Reflective stripe is applied on the exposed edge for visibility when the compartment door is open</b> <b>1. L1 compartment</b> <b>2. L3 compartment</b>		

PART NO	S	DESCRIPTION	QTY	ID
		3. R1 compartment 4. R3 compartment		
60-31-9600	S	> <b>Adjustable shelf (ea)</b> ENG. NOTE: Specify location	8	MTL
		White Reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1. L1 shallow as discussed at the accessories meeting and to allow the wheel chock brackets (80-19-0600) to be installed 2. L3 full depth 3. Back full depth under dump line 4. R1 full depth 5. R1 full depth 6. R3 full depth 7. R3 full depth 8. R1 shallow depth		
60-32-3560	S	<b>Three adjustable hose divider (each) - 2 fixed for walkway</b> Hand hold required in end Hose bed from left to right 4" / 1.75" / walkway / 1.75" / 2.5" / 2.5" As discussed at the pre-construction meeting of 07.08.2021	1	MTL
60-32-7500	S	<b>Hose bed - aluminum</b> Hose bed layout from left to right 800' of 4" 200' of 1.75" Walkway 200' of 1.75" 200' of 2.5" 200' of 2.5" As discussed at the pre-construction meeting of 07.08.2021	1	MTL
60-33-0000		<b>Paint exterior - Imron Elite</b> *** Paint code and colour to match chassis cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600	S	<b>Chassis wheels not painted - Aluminum wheels</b>	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	<b>Lettering - 80 letters up to 3" tall - 3 colour</b> *** Vinyl letters, Fire Department to provide details on location and text. Match last truck - M13-17165 Unit # to be "4" as advised by Chief Lloyd Campbell. Lettering approved by e-mail on 03.25.2022	1	MTL
60-33-3000		<b>Reflective stripe - 4" white</b> 50% of perimeter each side and 25% of perimeter front 3M Scotchlite	1	MTL
60-33-3310		<b>Reflective stripe - red and yellow chevron at rear</b> 50% of rear minimum Printed 3M Scotchlite	1	MTL
60-33-3500		<b>Tarp over hose bed - black</b> Tarp will be in two (2) pieces and will keep the walkway (60-33-3580) uncovered	1	MTL
60-33-3580	U	<b>Non slip overlay on top walkway in hose bed - 18" wide</b> There will be an 18" wide non-slip surface (embossed aluminum tread plate) installed in the walkway to meet ULC	1	
60-33-4700		<b>No crosslay preconnects on vehicle</b>	1	MTL
60-40-5000		<b>6" Hose tray - top mount (ea)</b> Attached to the PTS (60-41-6001) to carry the 6" x 10' suction hose 80-11-5000	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-40-5500		<b>Suction hose tube (each) with door</b> To be completely enclosed and carry 13' suction hoses reference 80-11-5025 Door Ajar switch required	2	MTL
60-41-1015		<b>Pike Pole tube in suction hose tube</b>	2	MTL
60-41-1500		<b>Attic ladder tube with rear door</b> Right side rear access for an attic ladder (80-14-8500) and pry bar (80-13-15AA) There will be a door ajar switch supplied and installed for the Door Ajar Warning circuit (50-21-5500)	1	MTL
60-41-6001		> <b>Zico hydraulic portable tank rack</b> <b>ENG. NOTE:</b> Specify mounting location desired. If Portable tank is customer supplied, specify overall dimensions when the tank is in stored position  To be wired so only operable when park brake is engaged and compartment door over rear wheels is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Will carry a 2000 Imperial Gallon porta tank (80-15-1000) and 10' suction hose (80-11-5000)	1	MTL
60-41-6010	S	<b>ZICO PTS switched on left side pump operator's panel</b> Switch is located on same side as electric rack	1	MTL
60-41-6110		<b>Painted plate on exterior of Zico PTS</b>	1	MTL
60-41-7100		<b>Tread plate on body behind porta tank rack</b>	1	MTL
60-41-9001	S	> <b>Zico hydraulic Ladder Access system</b> <b>ENG. NOTE:</b> Specify mounting location desired. If ladder(s) are customer supplied, specify overall length and width, width between side rails, rung spacing; also specify ladder brand and model  To be wired so only operable when park brake is engaged and compartment door over rear wheels is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. For storage of 24' two section (80-14-0500), 14' roof ladder (80-14-5500) as discussed at the pre-construction meeting of 07.08.2021	1	MTL
60-41-9010	S	<b>ZICO LAS switched on right side pump panel</b> Switch is located on same side as electric rack	1	MTL
<b>INSTRUMENTATION</b>				
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0501		<b>Side mount instrument panel with rollup door LS only</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-1500		<b>Stainless steel instrument panels</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position	1	MTL
70-11-3200		<b>Colour coded tags</b>	1	MTL
70-11-4506	U	<b>Diamondback grip type panel hood step right side</b>	1	
70-11-5110	U	<b>Open storage at rear top of pump house</b> Includes drain holes plumbed to below the chassis frame, plastic interlocking tile and LED light towards the cab	1	

PART NO	S	DESCRIPTION	QTY	ID
70-11-5300	S	<b>Right side painted pump access door</b> No opening dimension less than 18" The right side pump access door will be painted aluminum as discussed at the pre-construction meeting of 07.08.2021	1	MTL
70-11-7500		<b>Heat pan-aluminum</b>	1	MTL
70-11-8000		<b>Heater in pump compartment</b> Switched at pump panel	1	MTL
70-11-8200	<	<b>Rubber seal around suction and discharge openings on side pump panels</b> SOPT #483	1	MTL
70-20-1120		<b>4-1/2" compound gauge - dual face 0-400 Thuemling brand</b>	2	MTL
70-20-2130		<b>2-1/2" pressure gauge - dual face 0-400 - Thuemling brand</b>	9	MTL
70-20-2500	S	<b>Trident Primer control - main pump</b>	1	MTL
70-20-2501	S	<b>Trident Additional Primer control - pre-primers</b>	2	MTL
70-20-3300		<b>FRC InControl Governor Control</b> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-35AA	U	<b>Electric water level gauge on pump panel and in cab Class One</b> One (1) mini gauge in cab headliner switches (50-11-0900), one (1) regular on pump panel	1	
70-20-3612	U	<b>Remote PSTANK2 water level indicators each side, rear with driver</b> Activated when park brake is applied Includes chrome bezel	1	
70-20-6500		Test gauge panel Mount below the compound gauges for proper draining	1	MTL
70-20-7500		<b>Heat exchanger control valve</b>	1	MTL
70-21-1600	S	<b>Electric Foam Level gauge not requested</b>	1	MTL
70-21-2100	>	<b>PTO Hourmeter</b> ENG. NOTE: Specify location in shop note  <b>To be mounted on chassis console 20-31-7500</b>	1	MTL
70-21-5500	S	<b>Panel readout for Battery Conditioner on LS chassis step</b>	1	MTL
71-21-3101	>	<b>Transmission warning light not required</b> ENG. NOTE: Requires the FRC InControl, Pump Boss or TPG Plus  <b>Present on the FRC InControl</b>	1	MTL
<b>ACCESSORIES</b>				
80-11-5000		<b>6" x 10' lightweight suction hose (ea)</b> Mount on tray (60-40-5000) on porta tank rack (60-41-6001)	1	MTL
80-11-5025	U	<b>6" x 13' suction hose</b> Tube mounted (60-40-5500)	2	
80-11-60AA	U	<b>Kocheck 45-degree suction elbow</b> There will be a Kocheck KEP6L6-C45 suction elbow supplied and shipped loose with complete unit. SOPT 584 - Part #1501194 As discussed at the pre-construction meeting of 07.08.2021	1	
80-12-2500		<b>6" barrel strainer</b> Ship loose for customer mounting	1	MTL
80-13-0500	S	<b>Rubber mallet</b> Mounted with bracket 80-13-0510 as discussed at the pre-construction meeting of 07.08.2021	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
80-13-0510	S <	<b>PAC Toolok bracket 1003-HD-Y for mounting rubber mallet</b> SOPT #319	1	MTL
		To be mounted on the side wall of the left side pump panel. As discussed at the pre-construction meeting of 07.08.2021		
80-13-1000		<b>Hose wrenches (double) with holder</b> Mount on rear of body and right side of pump panel where room permits	2	MTL
80-13-1100		<b>Hose wrenches (triple) with holder</b> Mount on LS pump panel where room permits	1	MTL
80-13-15AA	U	<b>Bar - stored in tube</b> Tube mounted (60-41-1500) Part # 1520115	1	
80-13-2500		<b>Pike pole, fibreglass handle - 10' long</b> tube mounted (60-41-1015)	2	MTL
80-13-4000	S	<b>Axe, pick head, fibreglass handle and bracket</b> Customer to advise mounting location: Side wall of B1 compartment As discussed at the pre-construction meeting of 07.08.2021	1	MTL
80-13-4500	S	<b>Axe, flat head, fibreglass handle and bracket</b> Customer to advise mounting location: Side wall of B1 compartment As discussed at the pre-construction meeting of 07.08.2021	1	MTL
80-14-0500		<b>24' 2 section extension ladder PEL 24</b> Stored on LAS (60-41-9001)	1	MTL
80-14-5500		<b>14' aluminum roof ladder PRL-14</b> Stored on LAS (60-41-9001)	1	MTL
80-14-8500		<b>10' aluminum folding attic ladder FL-10</b> tube mounted (60-41-1500)	1	MTL
80-15-1000		<b>2000 l gallon portable tank - Husky</b> Stored on PTS (60-41-6001) Liner to be yellow in color	1	MTL
80-16-05AA	U	<b>Akron 3423, deck monitor with stacked tips</b> There will be a direct mount 3423 monitor with stacked tips mounted to monitor piping (30-44-6520). No ground base supplied as discussed at the pre-construction meeting of 07.08.2021	1	
80-19-0500		<b>Large folding wheel chock - aluminum (ea) not mounted</b>	2	MTL
80-19-0600	S >	<b>Horizontal bracket for folding wheel chock (ea)</b> ENG. NOTE: Specify location, otherwise ship loose	2	MTL
		The brackets will be installed at the depth change of the L1 compartment if space permits. As discussed at the pre-construction meeting of 07.08.2021		
80-99-20AA	U	<b>2.5" to 1.5" reducer with end cap</b> These will be installed on the 2.5" rear, left and right side discharges Part # 1501296 and 1500281	5	
80-99-25AA	U	<b>4" Storz to 2.5" male adapter with end cap</b> To be shipped loose Part # 1501016 from Kocheck and 1501501 from South Park	1	