Shop Order

Town of Lockeport
Ref: Lockeport Volunteer Fire Department
26 North Street
Lockeport, NS B0T 1L0

Exp. Date: 02/23/2020
Quote No: JLONS-0017
Job/Order No: 21517
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

03/28/2022

PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	***1***	***MTL***
	S	***Change Order F***	***1***	***MTL***
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
00-20-1700		***Hale Pump Warranty - 5 years***	***1***	***MTL***
00-20-1800		Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000	***S***	***Quality System registered to ISO 9001:2015***	***1***	***MTL***
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	**1**	**MTL**
10-11-0000		Intent E	1	MTL
10-11-0105		Vehicle Data Recorder not requested E	1	MTL
10-11-1100		ULC S515-13 Compliance	1	MTL
10-11-1500	>	ULC Testing - Pumper - Imperial units of measure	1	MTL
		ENG. NOTE:		
		Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100	***S***	***Maximum length 35' or 420"***	***1***	***MTL***
10-11-2200	***S***	***Maximum height - 12' or 144"***	***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***
		*****Two copies of manuals are required.**		
10-11-3600	***S***	***> Delivery - FOB Fire Department***	***1***	***MTL***
		ENG. NOTE:		
		Note in the shop note if more than 4 hours of training is required		
10-11-4000	***S***	***Payment Terms - Chassis Net 10 days, Balance COD***	***1***	***MTL***
		Change Order C will be invoiced directly to the fire department at time of delivery. As discussed with Chief Wayne Chetwyn by phone on 08.23.2021		
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 - International HV607 tandem two door***	***1***	***MTL***
		Metalfab P/N 1581149 PO #68537		
		62,000 lb GVWR 16,000 lb front axle 46,000 lb rear axle		
		Cummins L9 400 hp @ 2100 rpm 2200 governed rpm		
		1250 lb-ft torque @ 1400 rpm		
		3000 EVS automatic transmission 325 Amp alternator		
		ESP included (International electronic stability program)		
		Jacobs C-Brake - includes activation of tail lights		
		189 liter fuel tank, LH		

PART NO	S	DESCRIPTION	QTY	ID
		Diamond logic and switch packs included		
		Paint is white over red - Paint codes are 2303 Red and 9219 Winter white which were approved by Chief Wayne Chetwynd on 06.23.2020		
		Paint dividing line is to match Loyalist, ON as per pictures sent to department		
		Paint spray outs were sent to Customer and approved.		
20-11-1500		2013 Emission chassis modifications	1	MTL
20-11-1600	***S***	***Chassis Motor Vehicle Inspection as supplied by chassis dealer***	***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
20-21-1570		***LED Tire Pressure Indicators - Tandem Axle***	***1***	***MTL***
		Shipped loose for end user to install once truck is loaded with equipment and hose loaded.		
20-21-1600		Apparatus Information Label	1	MTL
		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"		
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
20-21-3810		***Front mudflaps provided with chassis E***	***1***	***MTL***
20-21-4000		Rear mudflaps - Metalfab Logo	1	MTL
20-31-0200		Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-0600		***Alum tread fuel tank covers, diamond grip steps, Conv - 2 dr***	***1***	***MTL***
20-31-1900	***S***	***Chassis cab painted by chassis OEM***	***1***	***MTL***
		Color to be white over red		
20-31-7500	***S***	***Console in cab***	***1***	***MTL***
		Install siren (50-11-1400), radio provisions (50-35-0500) which will be Jotto desk plates, and PTO hour meter (70-21-2100) in console.		
		Storage area with hinged cover and lift and turn latch provided at rear of console.		
		Gray Zolatone finish. Department approved console layout at pre-construction meeting of 08.26.2020. The layout will be as similar to Glen Levitt 20671 as possible.		
20-41-0600	***S***	***Intake air shutoff for engine not requested***	***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 E	1	MTL
		Engineering to specify exhaust pipe material as required by the chassis manufacturer.		
		Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.		
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
		*** Flat bar tow hooks under rear step (2)		
20-51-0700		***Master Battery Disconnect included with chassis***	***1***	***MTL***
20-51-2500		***Back up alarm included with chassis***	***1***	***MTL***
20-51-3400		Protection valve installed for air operated accessories	1	MTL
20-51-4000		***Auto eject for air inlet - LS***	***1***	***MTL***
		Located on left side pump panel		

PART NO	S	DESCRIPTION	QTY	ID
20-51-6200		***> 120 volt 20 A shore line connection in chassis cab***	***1***	***MTL***
		ENG. NOTE:		
		Requires 20-51-75 120 volt auto eject or 20-51-80 120 volt inlet		
		Standard 5-20R duplex receptacle in chassis cab, not fused		
		In cab for battery conditioner		
		12" off the floor to meet ULC		
20-51-6500		***Kussmaul Autocharge 1000 battery conditioner w/battery saver***	***1***	***MTL***
		Conditioner is located inside cab behind seat/console area		
20-51-7101	***S***	***Electric System Management - Diamondlogic***	***1***	***MTL***
20-51-7500		***Super Auto eject for 120 v - 20 A with sealed enclosure***	***1***	***MTL***
		Located on left side pump panel		
20-51-8510	***S***	***Engine compartment light LED***	***1***	***MTL***
		One light in engine compartment switched with park brake		
20-51-9110		***Air horns on hood, chassis OEM switch controlled E***	***1***	***MTL***
20-52-3000		> Chassis steering wheel lined up by others	1	MTL
		ENG. NOTE:		
		Required for all chassis except Freightliner, Sterling, Spartan		
20-52-4001	***S***	***Rear View Camera system 7"***	***1***	***MTL***
		Rearview Systems STM7000 with 7" colour monitor in cab rigidly mounted on dash		
20-60-0400		Chassis wheelbase does not change	1	MTL
		PUMP AND PLUMBING	**1**	**MTL**
30-11-3010	***S***	***> Hale RSD-J Pump***	***1***	***MTL***
		ENG. NOTE:		
		Use top PTO, will not fit between driveshaft and frame		
30-11-31AA	***U***	***Hale RSD-J 1250 IGPM pump***	***1***	
		SOPT 1105		
		The pump gearbox will be a "J" model to allow installation for the PTO opening available.		
		Not enough discharges to meet pump capacity so one (1) crosslay will change to a 2.5" to flow the required 1250 IGPM. As discussed at the pre-construction meeting of 08.26.2020.		
30-15-0304		***Plumbing - non manifold pump SM SS E***	***1***	***MTL***
30-20-0500		Valves and controls - side mount panel	1	MTL
30-20-1001		Valve brand not specified E	1	MTL
30-20-1620		***Piping stainless steel - non manifold Pumper***	***1***	***MTL***
30-20-1700	***S***	***1-1/2" thread specifications - NPSH***	***1***	***MTL***
		Customer confirmed thread spec of NPSH at the pre-construction meeting of 08.26.2020		
30-20-1800	***S***	***2-1/2" thread specifications - 3.23 x 5***	***1***	***MTL***
		Customer confirmed thread spec of 3.23x5 Nova Scotia standard at the pre-construction meeting of 08.26.2020 and supplied a male and female adapter for testing purposes. The sample thread was logged into inventory on 08.27.2020.		
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2510		***Anodes in suction and discharge piping - non manifold pump***	***1***	***MTL***
		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.		
30-21-5520	***S***	***Tank to Pump SS 3" w/ check valve non manifold pump, 4" plumbing***	***1***	***MTL***
		The valve plumbing will be 4" to meet the ULC flow requirement		
30-22-1520		***Tank Fill valve 2-1/2" SS***	***1***	***MTL***

PART NO	S	DESCRIPTION	QTY	ID
30-31-4020	***S***	***Suction - 6" each side, SS non manifold pump, 6" header - LS gated/RS not gated***	***1***	***MTL***
30-31-7100		***> Hale master intake suction valve - handwheel control***	***1***	***MTL***
		ENG. NOTE:		
		Not available for top mount panels		
		Hale pumps only		
		Note location in Shop Note		
		Suction to be gated is the 6" left side inlet		
30-32-7550		***Suction - 2-1/2" left side SS, bleeder, non manifold pump***	***1***	***MTL***
30-40-2006	***S***	***4" right discharge SS, plumbed 3", bleeder, non manifold pump***	***1***	***MTL***
		4" Storz connection		
30-41-2040		***2-1/2" RS discharge SS, bleeder, non manifold pump***	***1***	***MTL***
30-41-2540		***2-1/2" LS discharge SS, bleeder, non manifold pump***	***2***	***MTL***
30-43-1520	***S***	***2-1/2" rear discharge SS, plumbed 2-1/2", bleeder - in hose bed***	***1***	***MTL***
		Located in the right side of hose bed through the front partition to be used as a pre-connect.		
		Ensure ample clearance around the fitting so hose can be attached and removed with the use of hose wrenches.		
30-44-0720	***S***	***1-1/2" speedlay (each) front of pumphouse SS, plumbed 2"***	***1***	***MTL***
		The lower speedlay will be a 1-1/2" connection and will be plumbed to foam. As discussed at the pre-construction meeting of 08.26.2020		
30-44-3520	***U***	***2-1/2" speedlay (each) front of pump house***	***1***	
		The upper speedlay will be a 2.5" discharge to allow the ULC pump test to be 1250 IGPM. The hose capacity will be set up for 200' of 1.75" like the lower speedlay. As discussed at the pre-construction meeting of 08.26.2020		
30-51-0400		***Pump shift - PTO Pump and Roll***	***1***	***MTL***
		*****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.		
30-51-1500		***Power shift PTO - Automatic transmission***	***1***	***MTL***
30-51-1501		***> PTO driveshaft E***	***1***	***MTL***
		ENG. NOTE:		
		Quantity of 2 for pumps mounted on 4 door cabs due to length		
30-51-6800		***FRC InControl Governor/Throttle engine display with throttle knob***	***1***	***MTL***
30-51-7000		***Suction side relief V/V, manifold pump***	***2***	***MTL***
		One plumbed to the suction side of pump		
		One plumbed to the left side MIV		
30-51-7715		***Trident Automatic Air Primer 3 barrel 2 location***	***1***	***MTL***
		Main pump and left side 6" MIV pre-prime		
30-51-7720		***Additional air tank for air primer system***	***1***	***MTL***
		An additional air tank is provided to improve air primer capacity		
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***
30-52-4010		***Foam System - Hypro FoamPro 1600***	***1***	***MTL***
		The rear 2.5" discharge and one (1) speedlay outlet (the lower one) is to be foam solution capable unless otherwise specified.		

PART NO	S	DESCRIPTION	QTY	ID
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		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7000		***Tank capacity 2000 Imperial Gallons***	***1***	***MTL***
40-12-4500		***Foam cell - 20 Imperial gallon***	***1***	***MTL***
40-21-1000		***4" tank to pump connection***	***1***	***MTL***
40-22-1000	***S***	***3" tank fill connection***	***1***	***MTL***
40-23-0500	***S***	***3/4" water level gauge connection***	***1***	***MTL***
40-23-1000	***S***	***3/4" foam level gauge connection***	***1***	***MTL***
40-23-1050		***4" Fireman's Friend connection***	***1***	***MTL***
40-23-1060		***10" Newton dump connection***	***1***	***MTL***
40-30-0500		***Sump drain valve (3" gate valve) with linkage E***	***1***	***MTL***
40-30-1100		***Water Fill Box middle left side***	***1***	***MTL***
40-31-3500		***10" rear Newton dump,stainless steel***	***1***	***MTL***
40-31-3600		***Newton dump - stainless steel 36" telechute***	***1***	***MTL***
40-31-4610	***S***	***Newton dump, top mount manual operation, SS***	***1***	***MTL***
		Lock open device is required for the top mount control		
40-31-5610		***> Rotating dump chute for Newton dump SS***	***1***	***MTL***
		ENG. NOTE:		
		Requires top mount control on dump valve		
40-31-5800		***Support for rotating dump chute if necessary***	***1***	***MTL***
		Engineering to determine if this support is required		
40-31-9000	***S***	***4" Storz rear fill, Fireman's Friend, bleeder***	***1***	***MTL***
		Located right of the dump line.		
		Extended out to clear dump chute.		
		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
		As required by ULC and NFPA standards		
50-11-0900	***S***	***Rocker switch panel with master warning switch (with chassis - Diamond Logic)***	***1***	***MTL***
		*****Rocker switch assignments:**		
		MASTER		
		-LIGHT BAR RED		
		-LIGHT BAR CLEAR		
		-FLASHING WARNING		
		-REAR FLOODS		
		-LS Scene		
		-Rear Scene		
		-RS Scene		
		-Ditch lights		
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		> Siren speaker,100 watt, in front bumper	1	MTL
		ENG. NOTE:		
		AS124 speaker 1570860		
50-11-2600		***Siren to be accessible to driver and officer***	***1***	***MTL***
50-11-6100	***S***	***Whelen F4N0QLED LED light bar NFPA***	***1***	***MTL***
50-11-6501	***S***	***Rear Directional Light not requested***	***1***	***MTL***
50-11-8001		***> Rear beacons not required E***	***1***	***MTL***
		ENG. NOTE:		
		Confirm that necessary lighting for ULC/NFPA is present		
50-12-8500	***S***	***Front LED flashers (pr)-Whelen red LED 400***	***1***	***MTL***

PART NO	S	DESCRIPTION	QTY	ID
50-12-8600	***S***	***Rear LED flashers (pr)-Whelen red LED 400***	***1***	***MTL***
50-12-8620	***S***	***Rear LED flashers (pr)-Whelen red LED C9 with integral flasher***	***1***	***MTL***
50-12-8700	***S***	***Front side inter lts (pr) - Whelen red LED 400***	***1***	***MTL***
50-12-8800	***S***	***Body side inter lts (pr)-Whelen red LED 400***	***1***	***MTL***
50-12-8820	***S***	***Body side inter lts (pr)-Whelen red LED C9 with integral flasher***	***2***	***MTL***
50-12-8901	***S***	***> Add'l body side inter lts (pr)-Whelen red LED 400 with integral flasher***	***1***	***MTL***
		ENG. NOTE:		
		Required if distance between front and rear side intersection lights exceeds 25'		
50-21-1505	***U***	***Unity LED rear floods (pr)***	***1***	
		Switched in cab		
		These lights can't be managed to shed		
50-21-1610	***U***	***Parking ditch lights in rear fenders - LED w/ SS housing***	***1***	
		Switched in cab and with reverse gear of transmission		
		These lights can be managed to shed		
50-21-29AA	***U***	***Additional lighting in cab to illuminate floor area (ULC requirement) 2 door***	***1***	
		SOPT 998		
50-21-5100		***> Compartment lighting - LED tube lights in each compartment (rollup doors)***	***1***	***MTL***
		ENG. NOTE:		
		Rollup doors only		
		The light in the right side low side compartment will be 4" recessed LED due to space		
50-21-5500	***S***	***Door Ajar warning light***	***1***	***MTL***
		Warning light included with the Diamond Logic switch pack module		
		Bilingual warning label in cab to read:		
		"Do Not Move Apparatus when Light is on"		
50-21-8001		***Step lights for body steps - 4" LED***	***1***	***MTL***
		Switch with park brake		
50-21-8200	***U***	***12" Lumabar LED step lights for two door chassis***	***1***	
		Switched with park brake		
50-21-83AA	***U***	***12" Lumabar rear step and platform lighting***	***1***	
		SOPT 307b		
		To be activated when the park brake is applied		
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	***S***	***Whelen 64 LED tail/brake-turn-backup module (pr)***	***1***	***MTL***
50-31-6010		***Scene light boxes (pr) - tread plate E***	***2***	***MTL***
		Note any special requirements		
50-31-6021	***U***	***Whelen C9SL LS scene lights (pr)***	***1***	
		Switched in cab		
		Can be managed to shed		
50-31-6022	***U***	***Whelen C9SL rear scene lights (pr)***	***1***	
		Can't be managed as they are required for ULC		
		Controlled by a switch in the cab and interlock with reverse of transmission		
50-31-6023	***U***	***Whelen C9SL RS scene lights (pr)***	***1***	
		Switched in cab		
		Can be managed to shed		
50-31-6550		***Ground lighting (LED Lumabar) - 2 door chassis***	***1***	***MTL***
		Switched with park brake		
50-31-6570		***Ground lighting (LED Lumabar) - side mount body***	***1***	***MTL***
		Switched with park brake		

PART NO	S	DESCRIPTION	QTY	ID
50-31-65AA	***U***	***Hose bed lighting - LED on front partition (ULC requirement)***	***1***	
		SOPT 958		
		Activated with the park brake		
50-35-0560		***VHF antenna with base - commercial chassis***	***1***	***MTL***
		Left side cab roof back of lightbar		
50-35-0590		***Cellular/TMR antenna with base - commercial chassis***	***1***	***MTL***
		Right side cab roof back of lightbar		
50-35-05AA	***U***	***Radio provision only***	***2***	
		There will be two (2) Jotto desk plates supplied and installed in the chassis console 20-31-7500. There will be 12-volt power leads coiled in the center console along with the antenna leads (50-35-0560 and 50-35-0590) to allow the fire department to install their radios after delivery. As discussed at the pre-construction meeting of 08.26.2020		
		The customer supplied / installed radios will be Motorala CDM 1250 Radio AAM25KHD9AA2AN 136-174 MHz VHF and a TMR as advised by Chief Wayne Chetwyn by e-mail on 08.26.2021		
50-99-01AA	***U***	***Honda EU3000iKC Inverter type generator***	***1***	
		SOPT 647 - Metalfab P/N 1521803		
		There will be a Honda 3Kw Inverter type generator stored in the rear right side compartment as per fire department instruction and will not be wired permanently to the unit.		
		Generator is to be mounted on the pull out tray in the rear right side compartment as discussed at the pre-construction meeting of 08.26.2020		
		BODY	**1**	**MTL**
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 E	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400	>	Diamondback pumphouse steps	1	MTL
		ENG. NOTE:		
		Maximum height of step is 24" from ground		
60-10-5430	>	Diamondback 19" rear step	1	MTL
		ENG. NOTE:		
		Maximum height of rear step is 24" from ground		
60-10-6500	***S***	***Bolt on extruded aluminum rub rail***	***1***	***MTL***
		White Reflective stripe will be installed in the rub rail as requested at the pre-construction meeting of 08.26.2020		
60-11-0300	***>***	***Front left side compartments full height E***	***1***	***MTL***
		ENG. NOTE:		
		Specify critical dimensions in shop note		
		The compartment will be ahead of the porta tank tube 60-40-9500		
60-11-0600	***>***	***Front right side compartments intermediate height***	***1***	***MTL***
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-0800	>	Rear left side compartment to top of wheel well	1	MTL
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-1300	***>***	***Rear right side compartments intermediate height***	***1***	***MTL***
		ENG. NOTE:		
		Specify critical dimensions in shop note		
60-11-1900	***>***	***Low side compartment (up to 18") each***	***2***	***MTL***
		ENG. NOTE:		

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		
		On right side of body with drop down type doors		
60-11-3100		***No rear compartment E***	***1***	***MTL***
60-11-4530	***U***	***Flush mount aluminum door - single with "D" handle - drop down type doors***	***2***	
60-11-5500		***Rollup door - standard height***	***1***	***MTL***
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point		
60-11-5510		***Rollup door - intermediate height***	***2***	***MTL***
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point		
60-11-5520		***Rollup door - full height***	***1***	***MTL***
		Natural aluminum finish		
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point		
60-11-5660	***U***	***Amdor pull strap for L1 compartment***	***1***	
60-31-4100		Extruded aluminum handrails	1	MTL
		Minimum 2" clearance from handrail to any surface		
60-31-5500	***S***	***Steps at rear of body (folding) w/ integral LED lights***	***1***	***MTL***
		Maximum height between steps is 18"		
60-31-5600		Steps and grab handles at front of body next to pump panel	1	MTL
		Maximum height between steps is 18"		
60-31-5800	***S***	***Full width integral step under hose bed***	***1***	***MTL***
60-31-6500	***S***	***Compartment matting- Interlocking tile***	***1***	***MTL***
60-31-8800	***>***	***Sliding tray (ea) - 600 pound capacity***	***4***	***MTL***
		ENG. NOTE:		
		Specify location		
		*****Hardware requires 3-1/2" of compartment height**		
		White reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
		1. Left side front compartment		
		2. Left side rear compartment		
		3. Right side front compartment		
		4. Right side rear compartment		
60-31-9600	***S***	***> Adjustable shelf (ea)***	***2***	***MTL***
		ENG. NOTE:		
		Specify location		
		White reflective stripe is applied on the exposed edge for visibility when the compartment door is open.		
		Customer specified location of shelves to be:		
		Shelf #1 - L1 compartment - shallow		
		Shelf #2 - L1 compartment - shallow at compartment depth change		
		As discussed at the pre-construction meeting of 08.26.2020 and by phone with Chief Wayne Chetwynd on 10.21.2021		
60-32-3560		***Three adjustable hose divider (each)***	***1***	***MTL***
		Hand hold required in end		
60-32-7500		Hose bed - aluminum	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-33-0000		***Paint exterior - Imron Elite***	***1***	***MTL***
		***** Paint code and colour red to match red on cab**		
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		***Chassis wheels not painted***	***1***	***MTL***
		Wheels are polished aluminum.		
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***
		***** Vinyl letters, Fire Department to provide details on location and text.**		
		Door decal to match pictures in F:/Data/Jacques/Current Project/Lockeport/Pictures		
		Door decal to match IMG_4426		
		Truck # to match IMG_4413 to be installed on the L1/R1 rollup door with the numbers "1250-21". Truck Number 132 remains the same		
		"Emergency 911" to match IMG_4414 on rear compartment doors		
		"Keep Back 150 Metres" on the back of the body to match IMG_4415 but in two (2) lines in order to fit available space		
		As discussed at the pre-construction meeting of 08.26.2020 and approved by Chief Wayne Chetwynd by phone on 10.06.2021.		
60-33-3000		***Reflective stripe - 4" white***	***1***	***MTL***
		50% of perimeter each side and 25% of perimeter front		
		3M Scotchlite material		
60-33-3310		***Reflective stripe - red and yellow chevron at rear***	***1***	***MTL***
		Minimum 50% of rear vertical surface.		
		Printed 3M Scotchlite material		
60-33-3500		Tarp over hose bed - black	1	MTL
60-33-3600		***Reflective stripe - inside entry doors***	***1***	***MTL***
		96 square inches minimum of white reflective inside each cab entry door		
60-33-4000	***S***	***Tarp at end of speedlays - black***	***1***	***MTL***
60-40-5500		***Suction hose tube (each) with door***	***2***	***MTL***
		For the storage of the 6" x 10 suction hoses 80-11-5000		
		Door ajar switch required		
60-40-9000	***S***	**>** ***Tube mount for ladders, with rear door***	***1***	***MTL***
		ENG. NOTE:		
		Specify location, ladders to be installed in this tube, complete dimensions of ladders if user supplied		
		Right side, rear access.		
		Door ajar switch required		
		For Metalfab supplied 24' (80-14-0500) and 14' (80-14-5500) ladders.		
		As approved by Chief Wayne Chetwyn by e-mail on 08.26.2021		
60-40-9500	***S***	**>** ***Tube for portable tank storage, with rear door***	***1***	***MTL***
		ENG. NOTE:		
		Note location of tube, portable tank to be installed, dimensions of portable tank if customer supplied		
		Left side, rear access.		
		Door ajar switch required		
		For Metalfab supplied portable tank.		
		Husky		
		OA length - 118"		
		OA height - 30-1/2"		
		OA folded thickness - 7-1/2"		
		As approved by Chief Chetwynd by e-mail on 01.03.2022		
60-41-1015		***Pike Pole tube in suction hose tube***	***2***	***MTL***
		For storage of Customer's pike poles		
		Note: Tubes are 2" ID and the length of the suction hose tube (approx 10') - tubes		

PART NO	S	DESCRIPTION	QTY	ID
		are designed for a standard pike pole with round handles (without "D" handle) and the standard pike head.		
60-41-1500	***S***	***Attic ladder tube integral with ladder tube***	***1***	***MTL***
		For Customer's 10' folding attic ladder.		
		Customer to specify ladder make, model, dimensions, etc.		
		Make - Duo Safety		
		Model - _____		
		OA length (folded) - 133" as measured by Wayne on 05.07.2021		
		OA width (folded) - 3"		
		OA thickness (folded) - 2"		
		As measured at the pre-construction meeting of 08.26.2020		
		INSTRUMENTATION	**1**	**MTL**
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-0500		Side mount instrument panel	1	MTL
		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		
70-11-1500		Stainless steel instrument panels	1	MTL
		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		
70-11-3200		***Colour coded tags***	***1***	***MTL***
		Imperial units		
70-11-4100		Stainless steel side panel hood left side	1	MTL
70-11-4500		***Diamondback grip type panel hood step right side***	***1***	***MTL***
70-11-5100		***Open storage at rear top of pump house***	***1***	***MTL***
		Lighting required to meet ULC and will be switched when park brake is applied.		
		Drain holes required and will be plumbed to below frame level		
		Plastic interlocking tile will be installed on floor		
70-11-5500		Right side tread plate pump access door	1	MTL
		No opening dimension less than 18"		
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000		***Heater in pump compartment***	***1***	***MTL***
		Switch located on left side pump operators panel.		
70-11-8200	***U***	***Rubber seal around suction and discharge openings on panel***	***1***	
70-20-1120	***U***	***4-1/2" compound gauge - dual face 0-400***	***2***	
		To be within 8" of each other - edge to edge		
70-20-2130	***U***	***2-1/2" pressure gauge - dual face 0-400***	***7***	
		Gauge to be no more than 6" from edge of the gauge to the center of the control.		
70-20-2500	***S***	***Automatic Primer control - Trident - main pump***	***1***	***MTL***
70-20-2501	***S***	***Additional Primer control - Trident - Left side MIV pre-prime***	***1***	***MTL***
70-20-3300		***FRC InControl Governor Control***	***1***	***MTL***
		Throttle can be no lower than 42" and no higher than 72" from operator's standing position.		
70-20-3500		Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610		***Remote PSTANK water level indicators each side, rear with driver E***	***1***	***MTL***
		Interlock with park brake so powered only when the park brake is set.		
70-20-6500		Test gauge panel	1	MTL
		Mount below the compound gauges for proper draining		
70-20-7500		***Heat exchanger control valve***	***1***	***MTL***

PART NO	S	DESCRIPTION	QTY	ID
70-21-1500	*S*	*Electric Foam Level gauge on pump panel, Class One*	*1*	*MTL*
70-21-2100		> *PTO Hourmeter*	*1*	*MTL*
		ENG. NOTE:		
		Specify location in shop note		
		Located in cab console 20-31-7500		
70-21-5500		*Panel readout for Battery Conditioner*	*1*	*MTL*
		Located on left side pump panel		
71-21-3101	*S*	> *Transmission warning light included with Governor*	*1*	*MTL*
		ENG. NOTE:		
		Requires the FRC InControl, Pump Boss or TPG Plus		
		Present on the FRC InControl on left side pump operators panel		
		ACCESSORIES	**1**	**MTL**
80-11-5000		*6" x 10' lightweight suction hose (ea)*	*2*	*MTL*
		Tube mounted		
80-13-0500		*Rubber mallet*	*1*	*MTL*
		Shipped loose, not mounted.		
80-14-0500	*S*	*24' 2 section extension ladder PEL 24*	*1*	*MTL*
		A new ladder will be supplied and stores in the 60-40-9000 tube as approved by Chief Wayne Chetwyn by e-mail on 08.26.2021		
80-14-5500	*S*	*14' aluminum roof ladder PRL-14*	*1*	*MTL*
		A new ladder will be supplied and stores in the 60-40-9000 tube as approved by Chief Wayne Chetwyn by e-mail on 08.26.2021		
80-15-0500	*S*	*1500 l gallon portable tank - Husky*	*1*	*MTL*
		There will be a Husky Porta tank supplied to fit in the porta tank tube (60-40-9500) that measures 118" x 30-1/2" x 7-1/2". It will be shipped to the department after it arrives at Metalfab and will be invoiced directly to the fire department. As approved by Chief Wayne Chetwyn by e-mail on 01.03.2022		
80-17-0500	*S*	*20# dry chemical fire extinguisher and mount*	*1*	*MTL*
		Customer specified mounting location to be on the pull out tray in the R1 compartment - front corner. As discussed at the pre-construction meeting of 08.26.2020.		
80-17-1000	*S*	*15# CO2 fire extinguisher and mount*	*1*	*MTL*
		Customer specified mounting location to be on the pull out tray in the R1 compartment - back corner behind ABC extinguisher 80-17-0500. As discussed at the pre-construction meeting of 08.26.2020.		
80-19-0500		*Large folding wheel chock - aluminum (ea) not mounted*	*1*	*MTL*
80-19-0600	*S*	> *Horizontal bracket for folding wheel chock (ea)*	*1*	*MTL*
		ENG. NOTE:		
		Specify location, otherwise ship loose		
		Customer specified mounting location to be at the depth change in the L1 compartment under the adjustable shelf 60-31-9600. As discussed at the pre-construction meeting of 08.26.2020		
80-99-05AA	*U*	*TFT AJ8NX-NX 6" FNH x 6" MNH 30 degree Detent Elbow*	*1*	
		Install on steamer port - one left side - leave adequate room so this can be left installed and not be over width with the suction cap installed - drawing and dimensions of the elbow are in the SOPT 1162 file (8.83`` OA)		
		Make both side suctions the same lenght		
		P/N 1501168		
80-99-20AA	*U*	*2.5" x 1.5" reducing caps - chrome plated*	*4*	
		SOPT 791 - reducing cap (1501296) c/w 1-1/2" CP cap (1500281)		
		They will be installed on the right side 2.5", left side 2.5" and 2.5" speedlay as		

PART NO	S	DESCRIPTION	QTY	ID
		discussed at the pre-construction meeting of 08.26.2020		