



Shop Order

Hilden Volunteer Fire Brigade
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Quote No: JHINS-0021
Job/Order No: 19886
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

06/05/2018

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PART NO	S	DESCRIPTION	QTY	ID
		== Metalfab Pumper - ULC 05/13 - 0.000 ==	1	MTL
	S	CHANGE ORDER G	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	S	Polypropylene Tank Lifetime Warranty	1	MTL
00-20-2000		Plant Visits - unlimited at customer expense	1	MTL
00-20-3000	S	No Bonding Requested	1	MTL
00-20-3500		Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000		Quality System registered to ISO 9001:2008	1	MTL
00-20-4500		Fire Apparatus Manufacturers' Association Membership	1	MTL
		GENERAL INFORMATION	1	MTL
10-11-0000		Intent	1	MTL
10-11-0105		Vehicle Data Recorder not requested	1	MTL
10-11-1100	S	ULC S515-13 Compliance	1	MTL
10-11-1500		> ULC Testing - Pumper	1	MTL
		ENG. NOTE: Note in the shop note if the Fire Department wishes to witness the test		
10-11-2100	S	Maximum length - 34 or 408"	1	MTL
10-11-2200	S	Maximum height - 11'6" or 138"	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 ***Two copies of manuals are required.	1	MTL
10-11-3600	S	> Delivery - FOB Fire Department ENG. NOTE: Note in the shop note if more than 4 hours of training is required	1	MTL
10-11-4000		Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
10-20-1400	S	> Hose capacity exceeding ULC/NFPA requirements ENG. NOTE: Specify the type of hose and quantity of hose to be carried on the vehicle Hose bed capacity to be sufficient to carry the following; 1000 ft of 4" LDH 600 ft of 2-1/2" hose 600 ft of 1-1/2" hose ***The additional hose exceeding the ULC standard requirements results in an extra weight of 854 pounds***	1	MTL
10-20-2000		Equipment carrying capacity - standard ULC Pumper	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		CHASSIS INFORMATION	1	MTL
20-11-1000	S <	Chassis supplied by Metalfab - Freightliner 108SD tandem two door 62,000 lb GVW 16,000 lb front axle 46,000 lb rear axle 260" wheelbase, 194.45" calculated cab to axle Cummins L9 400 hp @ 2100 rpm, 2200 governed rpm 1250 torque at 1400 rpm Allison 3000 EVS automatic transmission, 275 amp alternator 189 liter fuel tank, LH under cab Color - N0890 Red - Spray outs will be sent to the Customer for approval ESC	1	MTL
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
20-21-1040		Maximum riders sign - 6 persons	1	MTL
20-21-1500		Seat belt warning labels - 2 door chassis	1	MTL
20-21-1515	S	Seat belt warning labels - Crew cab interior seats	1	MTL
20-21-1540		Tire Pressure Indicators - Tandem 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 E	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		Alum tread fuel tank trim, Conv - 2 door Vertical trim only, OEM cab steps remain	1	MTL
20-31-1900	S	Chassis cab painted red by chassis OEM	1	MTL
20-31-7500	S	Console in cab Install switch panel, siren, door ajar light, Customer supplied radios (ref 50-35-0500) and pump shift in console. Storage area with hinged cover and lift and turn latch provided at rear of console. Customer requests that two 80-99-05AA helmet holders be installed - one inside the console and one on top of the console Gray Zolatone finish	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 ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.	1	MTL
20-41-1500		Extend exhaust pipe - RS front of rear wheels E 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.	1	MTL
20-41-1900		Battery boost terminals with chassis E Included with chassis	1	MTL
20-41-2000		Chassis batteries remain in OEM location	1	MTL
20-41-2510		Fuel fill at step fuel tank under cab	1	MTL
20-41-2600		Chassis fuel tank remains in OEM location	1	MTL
20-41-5010		Rear Tow Hooks - through rear of body E ***Standard flat bar type - see also 60-11-2500	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-51-0710		Master Battery Disconnect included with Freightliner 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 Located left side of crew cab under speedlay opening.	1	MTL
20-51-6200	S	> 120 volt 20 A shore line connection in chassis cab 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 Note: must be minimum of 12" off floor to meet ULC. Receptacle #1 - back of console for battery conditioner to plug into Receptacle #2 - above the SCBA seats on wall of crew cab next to chassis cab, beside the pass through	2	MTL
20-51-6500		Kussmaul Autocharge 1000 battery conditioner w/battery saver Mounted on back side of console 20-31-7500	1	MTL
20-51-7100		Electric System Manager	1	MTL
20-51-7500		Super Auto eject for 120 v - 20 A with sealed enclosure Located left side of crew cab under speedlay opening. Minimum 24" from ground	1	MTL
20-51-8500	S	Engine compartment lighting - LED to meet ULC Switched when park brake is set.	1	MTL
20-51-9001	S	Air horns on hood controlled by dual lanyards with the Freightliner chassis	1	MTL
20-51-9300	U	Code 3 Utility LED light bar front bumper switched with highbeams See SOPT #926 - 14" long	1	
20-52-3500		> Chassis steering wheel lined up by Metalfab E	1	MTL
		ENG. NOTE: Freightliner, Sterling, and Spartan only		
20-52-4008	U	Rear View Camera system with GPS Rear View camera system with 7" touch screen monitor with GPS and heavy duty camera at rear.	1	
20-60-0400		Chassis wheelbase does not change	1	MTL
20-61-3000	S	< > Enclosed crew cab - aluminum - 4 SCBA seats - 72" int ht **** 4 SCBA seats **** Heaters to be similar to last unit - M08-10503 photo 100_8768 1130704 35,000 BTU under intermediate entry step both sides Drains requested each entry step floor, rubber duckbill drains if available, drain hose if not so water will not come in through the drains ENG. NOTE: Specify interior height required - 72" standard A pass through to the driving compartment or an intercom system is required Add SCBA brackets	1	MTL
20-61-4500	S	Interior finish - gray quilted vinyl	1	MTL
20-61-50AA	U	< Clear Windows for crew cab - 4 sliding, 10 fixed The windows on the crew cab will be clear - ***NO TINT*** ***All windows to be as large as possible*** Sliding windows are located in the upper portion of the entry doors and one each side by SCBA seats. Fixed window are located in the lower portion of the entry doors, one each side over the entry door opening, one each side by transverse panel, one each side rear facing to view pump panels (long and narrow) one on forward facing roof and one on rear facing roof.	1	
20-90-1000	S	Sealed pass through cab to body Accordion seal around window opening with foam and gray vinyl To be the same size as the rear window of the cab	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
20-99-0010	U <	Compartment RS under crew cab speedlays Approximately 13-1/2" wide x 18" high x 24" deep with painted vertically hinged smooth plate door and D handle, interior light, door switch tied to Door Ajar circuit, vents, drains, and interlocking plastic tile.	1	
20-99-05AA	U	Air horn control on pump panel SOPT #475 Label AIR HORN	1	
20-99-1088	U	SCBA seats with SecureALL type bracket (ea) For the crew cab Order ABTS type seats with SecureALL brackets.	4	
PUMP AND PLUMBING			1	MTL
30-11-8100		Hale QMAX 1250 IGPM single stage pump	1	MTL
30-12-3500		Mechanical seal for Hale QMID/QMAX/QTWO pumps	1	MTL
30-15-0102		Plumbing - Hale manifold pump TM SS	1	MTL
30-20-1000		Valves and controls - top mount panel	1	MTL
30-20-1001	S	Valve brand - Elkhart	1	MTL
30-20-1600		Piping stainless steel - general	1	MTL
30-20-1700	S	1-1/2" thread specifications - NPSH Customer male and female adapters have been given to our Parts Room	1	MTL
30-20-1800	S	2-1/2" thread specifications - NSZ1 3.23 x 5 Customer male and female adapters have been given to our Parts Room	1	MTL
30-20-2000		Piping hydrostatic test	1	MTL
30-20-2500		Anodes in suction and discharge piping 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
30-21-8510		Tank to Pump 4" butterfly valve SS, handwheel control, check valve manifold	1	MTL
30-22-2030		Tank Fill valve 3" TM SS	1	MTL
30-31-4010	S	Suction - 6" each side manifold pump	1	MTL
30-31-5100	S	Suction - 4" SS piping to front - electric control - 6" connection, bleeder ***Schedule 10 piping*** Customer requests drain connection to be out of bottom side of pipe (horizontal) instead of bottom of pipe (vertical) so it will not be broken off	1	MTL
30-31-7200	>	Hale master intake suction valve - electric control ENG. NOTE: Required for top mount panels Show location in Shop Note Front, Left and right side 6" intakes are gated	3	MTL
30-32-8530	S <	Suction - 2-1/2" left side SS, TM control, Hale manifold pump This valve is controlled from the top mount panel	1	MTL
30-40-3010	S	4" right discharge SS, plumbed 4", handwheel, Hale manifold pump, bleeder	1	MTL
30-40-3510	S	4" left discharge SS, plumbed 4", handwheel, Hale manifold pump, bleeder	1	MTL
30-41-2030		2-1/2" RS discharge TM SS, bleeder, Hale manifold pump	1	MTL
30-41-2530		2-1/2" LS discharge TM SS, bleeder, Hale manifold pump	1	MTL
30-42-8530	S	1-1/2" rear discharge TM SS, plumbed 2", bleeder Right side inboard of 2-1/2" rear 30-43-1530	1	MTL
30-43-1530	S	2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder Right side outboard of 1-1/2" rear 30-42-8530	1	MTL
30-44-0730		1-1/2" speedlay (each) front of pumphouse TM SS, plumbed 2" Equipped with dual direction sliding hose trays (aluminum on UHMW) with stainless steel rollers on each end for easier hose removal, and drop down surface mount aluminum treadplate doors with "D" handles each side. Hose capacity for each speedlay is 200 ft of 1-3/4" hose and nozzle	2	MTL

PART NO	S	DESCRIPTION	QTY	ID
30-44-3530		2-1/2" crosslay TM SS, plumbed 2-1/2", bleeder Stainless steel rollers are installed at each end of the hose bed. Hose capacity is 200 ft of 2-1/2" hose and nozzle	1	MTL
30-51-0500		Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel	1	MTL
30-51-0700		Pump Gearbox mounted manual over ride for pump shift	1	MTL
30-51-6640		Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7000		Suction side relief V/V, manifold pump	3	MTL
30-51-7717	U	Automatic Trident Air Primer - 4 location SOPT 856 - Trident Model 31.001.23 (no gauge) The Automatic Air Primer is installed for priming the pump and includes three (3) pre-primers for the front, left and right suctions.	1	
30-51-8100		Heat exchanger included with chassis	1	MTL
30-51-8500		Pump cooler with control valve, check valve	1	MTL
30-52-1000		Master drain V/V, 12 port	1	MTL
30-52-2000		Drain valve for foam system header	1	MTL
30-52-5510	S	Foam system-Hypro FoamPro 2001 Single Tank Foam capable discharges: 2 - 1-1/2" speedlays 1 - 1-1/2" rear 1 - 2-1/2" crosslay	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
30-99-0010	U	Air assistance for pump drain Provide a control valve on the pump panel to apply chassis air pressure to the pump to assist in blowing out drain lines when pump is drained.	1	
WATER AND FOAM TANKS			1	MTL
40-11-2100	S	Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200		Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7000	S	Tank capacity 2000 Imperial Gallons	1	MTL
40-12-5000	S	Foam cell - 30 Imperial gallon	1	MTL
40-21-1000		4" tank to pump connection	1	MTL
40-22-1500		3" tank fill connection	1	MTL
40-23-0500		1" water 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	1	MTL
40-30-1100		Water Fill Box middle left side	1	MTL
40-31-3500		10" rear Newton dump, stainless steel Offset to the left as shown on the proposal drawing. Note: The movement to the left side will be limited due to the Zico rear access ladder	1	MTL
40-31-3600	S	Newton dump - stainless steel 36" telechute Included with the 40-31-5600 rotating swivel chute	1	MTL
40-31-5500	S <	Electric operator for Newton dump Controls on left and right side	2	MTL
40-31-5600	U <	SS Swivel Dump chute (Rotating w/Lock) SOPT 2 Bumpers/stops required to prevent chute from coming in contact with rear flashing lights	1	
40-31-5800		Support for rotating dump chute if necessary Engineering to determine if this support is required	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
40-31-9000		4" Storz rear fill, Fireman's Friend Located right of dump as shown on the proposal drawing	1	MTL
		ELECTRICAL	1	MTL
50-11-0500	S	Base electrical system ***Includes green "Battery On" indicator light on chassis instrument panel. Make sure all ground connections have dielectric grease or equivalent where connected to frame and body.	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		Rocker switch panel with master warning switch Rocker switches located in 20-31-7500 console ***Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR CLEAR -REAR BEACONS -FLASHING WARNING -REAR FLOODS -DITCH LIGHTS	1	MTL
50-11-1400		Federal PA300 100 watt siren	1	MTL
50-11-1620		Siren speaker, 100 watt, in front bumper	1	MTL
50-11-2600		Siren to be accessible to driver and officer	1	MTL
50-11-5810	S	> Federal LPX53-DS NFPA lightbar - red and white ENG. NOTE: Adds 6.5" to overall height (measuring from roof of chassis)	1	MTL
50-11-7600		Rear LED Signal Master warning lights Model SL8	1	MTL
50-11-8900		Rear beacons-Federal Sentry (pr) 1 red, 1 amber Red is on right side and amber is on the left side	1	MTL
50-12-5020		Front LED flashers (pr)-red Federal QL64XF-R	1	MTL
50-12-5110		Rear LED flashers (pr)-red Federal QL64XF-R	1	MTL
50-12-5210		Front side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-12-5310		Body side inter lts (pr)-red LED Federal QL64XF-R	1	MTL
50-12-5410		> Additional body side inter lts (pr)-red LED Federal QL64XF-R ENG. NOTE: Required if distance between front and rear side intersection lights exceeds 25'	1	MTL
50-21-15AA	U <	Unity LED rear flood lights (pr) Switched in cab. Cannot be managed - need for ULC SOPT #255a	1	
50-21-16AA	U <	Parking (ditch) lights in rear fender - LED w/stainless housing Switched in cab and interlocked with reverse. Manage to shed through the ESM. SOPT #160a	1	
50-21-29AA	U <	Additional Lighting in cab to illuminate floor area (ULC requirement) As required to meet ULC SOPT 998	1	
50-21-5100		> Compartment lighting - LED tube lights in each compartment (rollup doors) ENG. NOTE: Rollup doors only Low side compartments over the rear right wheel well will be equipped with 4" LED grommet mounted compartment lights.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
50-21-5500	S	Door Ajar warning light Located in 20-31-7500 console Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	MTL
50-21-5560	U	Equipment rack not stowed warning light Located in 20-31-7500 console for the LAS Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on"	1	
50-21-8001	S	Step lights for body steps - 4" LED Switched when park brake is set. Lights are located front of body above 70-11-4500 and 70-11-4600 steps over panels. Also at front of body near bottom for steps under pump panel.	1	MTL
50-21-8110	S	Step lights for walkway - 4" LED Switched when park brake is set.	1	MTL
50-21-82AA	U	12" Lumabar LED step lights for 2 door chassis SOPT 194a Switched when park brake is set. Will also need for lighting rear platform/step under the dump and swivel/chute.	1	
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
50-31-6550	S	Ground lighting (LED Lumabar) - 2 door chassis Switched when park brake is set.	1	MTL
50-31-6580	S	Ground lighting (LED Lumabar) - top mount body Switched when park brake is set.	1	MTL
50-31-65AA	U	Hose bed lighting - LED on front partition (ULC requirement) Switched when park brake is set.	1	
50-35-0500	S	Installation of customer supplied mobile radio Radio information: Customer will ship radios to Metalfab Metalfab will mount the radios in the console per 20-31-7500 Power will be provided switched through the master switch Radios are programmed, TMR and one VHF head to be installed in console, other VHF head to be installed in the pump panel (flush mount preferred) Radios are programmed	2	MTL
50-35-0559		Mobile radio antenna provided by customer E Specify any special mounting locations or special spacing requirements	2	MTL
<hr/>				
NOTE: Antennas required when chassis arrives at our plant or we will install from our stock at Customer's expense.				
50-90-1000		> 12 volt powered roof vent - two speed ENG. NOTE: ***Note that roof vent increases overall height by 3". Crew cab mounted - switched at vent	1	MTL
50-99-05AA	U <	Wilburt Night Scan Powerlite - 12VDC LED tower SOPT in truck file Will-Burt P/N 720711630 - Model NS2.3-640 EVOL - 4 x 160 Watt Evolution light heads, 12-Volt Will-Burt P/N 4756919 - Handheld control with E-Stop, 50' cable Will-Burt P/N 914511 - 30' Power cable Located in the front of the hose bed area. Location of the remote controller to be at the pump panel	1	

PART NO	S	DESCRIPTION	QTY	ID
		BODY		
60-10-1600		Tandem axle extruded aluminum body	1	MTL
60-10-4100		No "beavertail" rear step supports	1	MTL
60-10-4600		Painted fender surround	1	MTL
60-10-4700		Integral aluminum fender trim	1	MTL
60-10-5400		> Diamondback pumphouse steps	1	MTL
		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		Bolt on extruded aluminum rub rail	1	MTL
		White reflective installed in rubrails		
		<i>E</i>		
60-11-0300		> Front left side compartments full height	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
		<i>E</i>		
		Roll up door to be equipped with a pull down strap		
60-11-0600		> Front right side compartments intermediate height	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
60-11-1000		> Rear left side compartments full height	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
		<i>E</i>		
		Roll up door to be equipped with a pull down strap		
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: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body		
60-11-2000		> High side compartment (over 18") each	2	MTL
		ENG. NOTE: Specify critical dimensions in shop note Specify type of door Specify flip up or drop down Specify which side of body		
		Roll up door to be equipped with a pull down strap		
60-11-2500	S	> Rear compartment at step level	1	MTL
		ENG. NOTE: Specify critical dimensions in shop note		
		To house tow eyes 20-41-5010 Compartment door to flip up - gas strut required		
60-11-4410	S	Flush mount aluminum door - Crew Cab side (single)	2	MTL
60-11-4500	S	Flush mount aluminum door - single with "D" handle	3	MTL
		Two (2) - flip up type with gas strut for compartment over right side rear wheels One (1) - flip up type with gas strut for compartment at rear step level 60-11-2500		
60-11-5500		Rollup door - standard height	2	MTL
		Natural aluminum finish		

PART NO	S	DESCRIPTION	QTY	ID
		Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point		
60-11-5510		Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5520		Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point	2	MTL
60-11-5655	U	Amdor Flex-HD pull down straps for roll up door for L2 and L3 Include with door order Metalfab part number 1003066 Amdor part number AY-9355-18 For door opening height of 20" to 37" Installed on the following doors Both left side doors over rear wheels	2	
60-11-5660	U	Amdor Flex-HD pull down straps for roll up door for L1 and L4 Include with door order Metalfab part number 1003068 Amdor part number AY-9355-36 For door opening height of 49" to 70" Installed on the following doors Left side front compartment door Left side rear compartment door	2	
60-31-4100		Extruded aluminum handrails Minimum 2" clearance from handrail to any surface	1	MTL
60-31-4137	S	Extruded aluminum handrail - at crew cab side entrance Minimum 2" clearance from handrail to any surface	2	MTL
60-31-5000		Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction	1	MTL
60-31-6500		Compartment matting-Turtle tile	1	MTL
60-31-8088	U <	Three (3) SCBA bottle tubes in fender As shown on the proposal drawing	2	
60-31-8600		> Sliding tray (ea) - 400 pound capacity - standard ENG. NOTE: Specify location Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Located at the following locations at floor level Tray #1 - Left side front compartment Tray #2 - Left side rear compartment Tray #3 - Right side front compartment Tray #3 - Right side rear compartment	4	MTL
60-31-9600	S	> Adjustable shelf (ea) ENG. NOTE: Specify location Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Shelf #1 - L1 shallow at depth change and upper portion Shelf #2 - L2 shallow Shelf #3 - L2 shallow Shelf #4 - L3 shallow Shelf #5 - L3 shallow Shelf #6 - L4 shallow at depth change and upper portion Shelf #7 - R1 shallow at depth change and upper portion Shelf #8 - R4 shallow at depth change and upper portion	8	MTL

PART NO	S	DESCRIPTION	QTY	ID
60-31-9610	U	Radio shelf over SCBA seats in crew cab Locate above pass through to cab, do not extend beyond the headrest of the SCBA seats	1	
60-32-3550		Two adjustable hose divider (each) Hand hold required in end	1	MTL
60-32-7500		Hose bed - aluminum	1	MTL
60-33-0000		Paint exterior - Imron Elite *** Paint code and colour red to match cab	1	MTL
60-33-0200		Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600		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
60-33-2200	S	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text. This will be truck number 741	1	MTL
60-33-3000		Reflective stripe - 4" white 50% of perimeter each side and 25% of perimeter front. Additionally install white reflective in rubrails	1	MTL
60-33-3310		Reflective stripe - red and yellow chevron at rear Minimum 50% of rear vertical surface	1	MTL
60-33-3500		Tarp over hose bed - black A hosebed cover will be provided and secured to top body flanges by quarter turn snaps at front of hosebed and Velcro on each side edge of the cover. A weighted flap will be furnished at the front of the cover, and Velcro straps will be provided on the rear of the cover to tie around the rear handrail. Color to be black.	1	MTL
60-33-4000	S	End doors for speedlays - tread plate with "D" handle As shown on proposal drawing - drop down doors with rubber bumpers	1	MTL
60-33-4600	S	Aluminum cover over 2-1/2" crosslay - with end tarps (black)	1	MTL
60-40-5000	<	6" Hose tray - top mount (ea) One of the 80-11-50AA Suction hoses to be mounted on ladder rack	1	MTL
60-40-5500	S <	Suction hose tube (each) with door Tube to be in the water tank to store one of the 80-11-50AA Suction hoses. Water tank manufacturer will ensure that plastic is thick enough for this use.	1	MTL
60-41-1015	S	Pike Pole tube in suction hose tube 2" ID tubes provided in suction hose tube in tank Customer pike poles are 6' (77" OA length) and 8' (100" OA length)	2	MTL
60-41-9001	>	Zico hydraulic Ladder Access system ENG. NOTE: 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 Right side - To be wired so only operable when park brake is engaged and drop down doors over right side rear wheels are closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body wired to the Equipment not stowed warning in cab.	1	MTL
60-41-9010		ZICO LAS switched at rear above tail light E Switch is located on same side as electric rack - right side	1	MTL
60-41-9100		Manual locking system for LAS Install information label at switch location to instruct operator to release locks prior to lowering the ladder.	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
INSTRUMENTATION				
70-11-0000		Warning Label on Pump Operator's Panel	1	MTL
70-11-1500		Stainless steel instrument panels	1	MTL
70-11-2000		Top mount instrument panel	1	MTL
		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		
70-11-2500	S	Transverse walkway Floor to be NFPA compliant non slip tread plate	1	MTL
70-11-2700		No tread plate overlay on back of chassis cab	1	MTL
70-11-3100		Mansaver bars not required	1	MTL
70-11-3200	S	Colour coded tags 1-1/2" speedlay colours to be BLUE and RED	1	MTL
70-11-3501		Compartments in ends of walkway not required	1	MTL
70-11-4500		Diamondback grip type panel hood step right side	1	MTL
70-11-4600		Diamondback grip type panel hood step left side	1	MTL
70-11-5500		Right side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-5600		Left side tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-5700		Transverse tread plate pump access door No opening dimension less than 18"	1	MTL
70-11-7500		Heat pan-aluminum	1	MTL
70-11-8000	S	Heater in pump compartment Switch for heater located on the transverse operators panel. Heater to be located as low as possible	1	MTL
70-20-1500		2-1/2" pressure gauge - dual face 0-600 Gauge to be no more than 6" from edge of the gauge to the center of the control.	10	MTL
70-20-3100		Class One Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.	1	MTL
70-20-3510	S	Electric water level gauge on pump panel, Class One	1	MTL
70-20-3610		Remote PSTANK water level indicators each side, rear with driver Interlock with park brake so powered only when the park brake is set.	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	1	MTL
70-21-1600		Electric Foam Level gauge not required	1	MTL
70-21-5500		Panel readout for Battery Conditioner Located left side of crew cab under speedlay opening.	1	MTL
70-99-0010	U	Rubber gaskets around all openings on pump panel Each opening in side panels for inlet and outlet piping to be fitted with rubber gasket to prevent heat loss	1	
ACCESSORIES				
80-11-50AA	U	6" x 15' suction hose Tube/tray mounted Length to be as close to 15' long as possible with the length restriction on the body	2	MTL
80-13-4000	S	Axe, pick head, fibreglass handle and bracket Install in the crew cab at end of pump house near entry door - brackets to meet ULC requirements for crew area mounting	1	MTL
80-13-4500	S	Axe, flat head, fibreglass handle and bracket Install in the crew cab at end of pump house near entry door - brackets to meet ULC	1	MTL

PART NO	S	DESCRIPTION	QTY	ID
		requirements for crew area mounting		
80-14-0500		24' 2 section extension ladder PEL 24 Mounted on LAS	1	MTL
80-14-6000		16' aluminum roof ladder PRL-16 Mounted on LAS	1	MTL
80-14-8500	S	10' aluminum folding attic ladder FL-10	1	MTL
80-14-9000	S	Attic ladder bracket (Zico) Mount on Zico ladder rack	1	MTL
80-19-0500	S	Large folding wheel chock - aluminum (ea) Mounted ahead of the rear wheels LS	2	MTL
80-19-0600	S	> Horizontal bracket for folding wheel chock (ea) ENG. NOTE: Specify location, otherwise ship loose	2	MTL
		Mount under the body ahead of the LS rear wheels		
80-99-0010	U <	1-3/4" pistol grip nozzle holder at rear Install a Zico NBM-2 (1560377) at rear of vehicle beside the rear hose tube door to hold the customer pistol grip nozzle for 1-3/4" preconnect on rear	1	
80-99-05AA	U	Zico UMH-1 Helmet holder Mounted as below: 4 helmets above pump panel 1 helmet inside the console 1 helmet on top of the console	6	