



Shop Order

Village of Arcadia
 Alexis Trebble
 Cambridge Narrows, NB
 alexis.trebble@arcadianb.ca



Sales Rep: Ryan A. Stacey, CET Business DEvelopment Manager	Terms: Chassis Net 10 Days Body & Equipment COD
Drawing #: FT- 11628 Est. Delivery Date: / / Customer PO #: Customer #: QPF #:	Penalty: None

Exp. Date: 04/15/2023
Quote No: RARNB-0011
Job/Order No: 23250
BODY: 00-10-15 Metalfab Pumper - ULC 05/13

10/29/2024

PART NO	QTY	DESCRIPTION
== Metalfab Pumper - ULC 05/13 - 0.000 ==		
Change Order D		
00-05-0010	1	Dealer - Metalfab
00-10-1500	1	Metalfab Pumper
00-20-0500	1	List of References not provided
00-20-1000	1	Company Profile
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1700	1	Hale Pump Warranty - 5 years
00-20-1800	1	Polypropylene Tank Lifetime Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3000	1	No Bonding Required
00-20-3500	1	Certification for Fusion Welding of Steel and Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
GENERAL INFORMATION		
10-11-0000	1	Intent
10-11-0105	1	Vehicle Data Recorder not requested
10-11-1100	1	ULC S515-13 Compliance
		Labels are bilingual English/French
10-11-1500	1	ULC Testing - Pumper - Imperial units of measure
10-11-2100	1	Maximum length not specified
10-11-2200	1	Maximum height not specified
10-11-2300	1	Overall length is less than 30'

PART NO	QTY	DESCRIPTION
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies ***Two copies of chassis manuals are required.
10-11-3600	1	Delivery - FOB Fire Department
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD
10-20-1000	1	Hose bed capacity - standard ULC Pumper
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
		CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - 2024 Freightliner M2 106 14,600 lb front 31,000 lb rear 45,600 lb GVWR Cummins L9 360 hp @ 2200 rpm 1150 lb-ft torque @ 1200 rpm 2200 governed rpm 232" WB 167" CA 3000 EVS 6 speed automatic transmission, Pkg 198 with PTO opening on LH side and RH top 17T drive line series Rear suspension dump Pull cables on all air reservoirs 189 litre fuel tank Manual window regulators and manual door locks Air ride driver's seat, 2 person bench seat ESC Auxiliary engine brake Air restriction gauge in cab Heat exchanger Auxiliary air reservoir Light under hood L0608 EY Red
20-11-1500	1	2013 Emission chassis modifications
20-11-1700	1	Chassis Motor Vehicle Inspection required - NB
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1010	1	Maximum riders sign - 3 persons
20-21-1500	1	Seat belt warning labels - 2 door chassis
20-21-1560	1	LED Tire Pressure Indicators - Single Axle
20-21-1600	1	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"
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required
20-21-3500	1	Rear step warning label
20-21-3810	1	Front mudflaps provided with chassis
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-0500	1	Alum tread fuel tank trim, Conv - 2 door left side only Vertical trim only, OEM cab steps remain LS step only as RS step has tread plate trim

PART NO	QTY	DESCRIPTION
20-31-1900	1	Chassis cab not painted
20-31-7510	1	Console in cab not requested
20-41-0600	1	Intake air shutoff for engine not required
20-41-0900	1	Auxiliary braking system disabled when pumping
20-41-1100	1	Transmission programming - Allison WT ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels 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.
20-41-1900	1	Battery boost terminals with chassis Included with chassis
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2510	1	Fuel fill at step fuel tank under cab
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5000	1	Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)
20-41-5500	1	ON SPOT Automatic traction chains Install switch on the chassis dash to the right of the driver near the transmission shift tower
20-51-0710	1	Master Battery Disconnect included with Freightliner chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3000	1	Air inlet with matching fitting - LS cab step
20-51-3400	1	Protection valve installed for air operated accessories
20-51-6200	5	120 volt 20 A shore line connection in chassis cab and body Standard 5-20R duplex receptacle, not fused One in chassis cab for the battery conditioner Two in L1 mounted on back wall in shallow section towards cab of truck Two in R1 mounted on back wall in shallow section towards cab of truck
20-51-6500	1	Kussmaul Autocharge 1000 battery conditioner w/battery saver Includes a 120 volt 20 A shoreline receptacle in the cab for the battery conditioner. Locate battery conditioner under the bench seat, provide minimum two vents for air circulation.
20-51-7101	1	Electric System Management through VMUX
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Locate inlet on LS cab step Confirm at precon - shoreline receptacles required in addition to the one in the cab for the battery conditioner? Original order showed 4 x 120 volt inlets _____
20-51-8505	1	Engine compartment light included with chassis Switched in cab and when hood is tilted
20-51-9001	1	Air horns included with chassis, dual lanyards
20-52-3500	1	Chassis steering wheel lined up by Metalfab
20-60-0400	1	Chassis wheelbase does not change
PUMP AND PLUMBING		

PART NO	QTY	DESCRIPTION
30-11-3800	1	Hale DSD midship pump - 1050 IGPM
30-15-0302	1	Plumbing - non manifold pump TM SS
30-20-1000	1	Valves and controls - top mount panel
30-20-1003	1	Elkhart valves specified
30-20-1620	1	Piping stainless steel - non manifold Pumper
30-20-1700	1	1-1/2" thread specifications STORZ Confirmed at Precon - all 1-1/2" fittings to be STORZ
30-20-1800	1	2-1/2" thread specifications STORZ Confirmed at Precon - all 2-1/2" fittings to be STORZ
30-20-2000	1	Piping hydrostatic test
30-20-2510	1	Anodes in suction and discharge piping - non manifold pump 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.
30-21-6110	1	Tank to Pump TM SS 3" w/ check valve non manifold pump 4" plumbing and check valve from tank
30-22-0630	1	Tank Fill valve 2" TM SS
30-31-4020	1	Suction - 6" each side SS non manifold pump 6" header
30-31-7205	2	Hale master intake suction valve - electric control *** Suction to be gated are Left and Right 6" Suctions
30-32-7650	1	Suction - 2-1/2" left side SS, bleeder, non manifold pump
30-32-8150	1	Suction - 2-1/2" right side SS, bleeder, non manifold pump
30-40-20AA	1	5" right discharge, plumbed 3", non manifold pump
30-41-2130	1	2-1/2" RS discharge SS, bleeder, non manifold pump
30-41-2630	2	2-1/2" LS discharge SS, bleeder, non manifold pump
30-43-2530	1	2-1/2" rear discharge TM SS, plumbed 2-1/2", bleeder Right Side as shown on proposal drawing
30-44-0580	2	1-1/2" crosslay (each) TM SS, 2" valve, bleeder Each crosslay to accommodate 200' double jacket 1-3/4" hose plus a nozzle
30-44-6630	1	Piping for monitor TM SS, plumbed 3", bleeder Maximum height with monitor installed, no height restriction confirmed at precon Make and Model of Monitor - Akron 3423 with stacked tips
30-51-0500	1	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 Locate under the cup holder, angled toward the driver
30-51-0700	1	Pump Gearbox mounted manual over ride for pump shift
30-51-6640	1	Class One "TPG Plus" Governor/Throttle
30-51-7005	2	Suction side relief V/V, manifold pump - with MIV One RS and one LS inlet
30-51-7716	1	Trident Automatic Air Primer 3 barrel 3 location Pump, LS inlet and RS inlet

PART NO	QTY	DESCRIPTION
30-51-77AA	1	Additional air tank for air primer system included with chassis
30-51-8100	1	Heat exchanger included with chassis
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	Drain valve for foam system header
30-52-5515	1	Foam system-Hypro FoamPro 2001 Single Tank Foam system is plumbed to both 1-1/2" crosslays and 1 2-1/2" rear discharge, confirm at precon _____
30-52-9100	1	Foam concentrate label at foam tank fill
30-52-9100	1	Foam concentrate label at foam tank fill
30-52-9200	1	Foam System Instruction Plates
30-52-9400	1	NFPA Foam System certification test
WATER AND FOAM TANKS		
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-5000	1	Tank capacity 1000 Imperial Gallons
40-12-5000	1	Foam cell - 30 Imperial gallon
40-21-1000	1	4" tank to pump connection
40-22-0500	1	2" tank fill connection
40-23-0500	1	3/4" water level gauge connection
40-23-1000	1	1" foam level gauge connection
40-23-1050	1	4" Fireman's Friend connection
40-23-1060	1	10" Newton dump connection
40-30-0400	1	3" plug in sump box
40-30-1000	1	Water Fill Box front left corner
40-31-3500	1	10" rear Newton dump, stainless steel
40-31-3600	1	Newton dump - stainless steel 36" telechute
40-31-5500	1	Electric operator for Newton dump Switch located above the LS tail lights
40-31-9000	1	4" Storz rear fill, Auto Fill with check valve Include a 30 degree droop, bleeder and blind cap Extend plumbing to just inside the rear door leaving room for a 4" Storz x 2-1/2" Storz adapter with cap
ELECTRICAL		
50-11-0300	1	Base electrical system - multiplex
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	Rocker switch panel with master warning switch Located in overhead panel of chassis Rocker switch assignments: MASTER -LIGHT BAR RED -LIGHT BAR WHITE -REAR BEACONS -FLASHING WARNING -REAR FLOODS -DITCH LIGHTS -RS SCENE

PART NO	QTY	DESCRIPTION
		-REAR SCENE
		-LS SCENE
50-11-1400	1	Federal PA300 100 watt siren Located in overhead panel of chassis
50-11-1620	1	Siren speaker, 100 watt, in front bumper - Federal AS124
50-11-2600	1	Siren to be accessible to driver and officer
50-11-6100	1	Whelan F4N0QLED LED light bar NFPA Approve WECAD at precon _____
50-11-6501	1	Rear Directional Light not required
50-11-8600	1	Rear LED beacons-Whelan MCFLED2R (pr) both red
50-12-8500	1	Front LED flashers (pr)-Whelan red LED 400
50-12-8600	1	Rear LED flashers (pr)-Whelan red LED 400
50-12-8700	1	Front side inter lts (pr) - Whelan red LED 400
50-12-8800	1	Body side inter lts (pr)-Whelan red LED 400
50-21-1505	1	Unity LED rear floods (pr) Switched and cab and on the light These lights cannot be managed, required for ULC
50-21-1620	2	Parking (ditch) lights in rear fenders - LED Tecniq E96 Switched in cab, can be managed These lights to operate when the transmission is in reverse
50-21-2541	2	FRC telescoping SPECTRA LED 12V flood (ea) Mount on back of cab Switched on light head Wired to equipment not stowed warning Can be managed
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Locate overhead above driver Warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-5550	1	Equipment rack not stowed warning light Locate overhead above driver Warning label in cab to read: "Do Not Move Apparatus when Light is on" To warn when the LS and RS telights are not stowed To warn when the LAS and PTS powered racks are not stowed
50-21-8001	1	Step lights for body steps - 4" LED Active when park brake is set
50-21-8110	1	Step lights for walkway - 4" LED Active when park brake is set
50-21-8200	1	Step lights for chassis steps - LED Lumabar Active when park brake is set

PART NO	QTY	DESCRIPTION
50-21-8600	1	LED clearance lts and reflectors
50-22-0700	1	Whelan 64 LED tail/brake-turn-backup module (pr)
50-31-6010	1	Scene light boxes (pr) - tread plate Rear side facing scene lights, rear facing scene lights, and rear beacons will be installed on these boxes
50-31-6058	1	Scene lights (pr) - Whelen M9 LED - right side upper Switched in cab Can be managed
50-31-6059	1	Scene lights (pr) - Whelen M9 LED - left side upper Switched in cab Can be managed
50-31-6060	1	Scene lights (pr) - Whelen M9 LED - rear facing upper Switched in cab and when transmission is in reverse, confirmed at precon Can be managed Mounted on scene light boxes
50-31-6550	1	Ground lighting (LED Lumabar) - 2 door chassis Active when park brake is set
50-31-6580	1	Ground lighting (LED Lumabar) - top mount body Active when park brake is set
50-31-7000	1	Work light for crosslay hose beds Lumabar on top of pump house, facing the body to prevent light in pump operator's vision Switched on pump panel
BODY		
60-10-1400	1	Single axle extruded aluminum body
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
60-10-6000	1	Extruded rub rail
60-11-0200	1	Front left side compartments intermediate height
60-11-0600	1	Front right side compartments intermediate height
60-11-0900	1	Rear left side compartments intermediate height
60-11-1300	1	Rear right side compartments intermediate height
60-11-1900	2	Low side compartment (up to 18") each L2 and R2 over rear wheels
60-11-3200	1	Intermediate Height Rear compartment
60-11-4535	2	Flush mount aluminum door - single with "D" handle Flip up with gas strut for L2 and R2
60-11-5510	5	Rollup door - intermediate height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point

PART NO	QTY	DESCRIPTION
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface One horizontal under the hose bed One vertical, right side of hose bed
60-31-5000	1	Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction LS below hose bed Include LED lighting and Proximity switch with the ladder
60-31-5500	1	Steps at rear of body (folding) Maximum height between steps is 18" Right side only
60-31-5610	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18" To access panel hood steps
60-31-5800	1	Platform step above rear compartment Maximum 18" below the hose bed Include yellow reflective delineation around exterior perimeter of the step
60-31-6500	1	Compartment matting - black plastic interlocking tile
60-31-8700	1	Sliding tray (ea) - 400 pound capacity with gas strut Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Install at floor level in L3 compartment (rear left side)
60-31-9600	5	Adjustable shelf (ea) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open 1 - L1 shallow 1 - L3 shallow 1 - R1 full depth 1 - R3 full depth 1 - B1 full depth
60-32-3560	1	Three hose divider (each) Hand hold required in end Two adjustable and one fixed in centre to support cover
60-32-7500	1	Hose bed - aluminum
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and colour_ to match chassis cab
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted Polished aluminum wheels
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour *** Vinyl letters, Fire Department to provide details on location and text.

PART NO	QTY	DESCRIPTION
60-33-3000	1	Reflective stripe - 4" white with 1/2" blue upper and lower borders 50% of perimeter each side and rear, 25% of perimeter front
60-33-3310	1	Reflective stripe - red and yellow chevron at rear Minimum 50% of area at rear Printed 3M Scotchlite reflective vinyl
60-33-4000	1	Tarp over crosslays - black
60-33-5000	1	Aluminum cover over hose bed with end tarps - black Include lighting under the hose bed, active when park brake is set Include door ajar switch to warning light in cab Include black vinyl tarps at rear
60-40-5500	2	Suction hose tube (each) with door Include door ajar switch to warning light in cab
60-41-1015	2	Pike Pole tube in suction hose tube
60-41-6001	1	Zico hydraulic portable tank rack To be wired so only operable when park brake is engaged and L2 door is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Locate on LS of vehicle
60-41-6010	1	ZICO PTS switched at rear above tail light Switch is located on same side as electric rack
60-41-6090	1	No tread plate on exterior of ZICO PTS
60-41-7100	1	Tread plate on body behind porta tank rack
60-41-9001	1	Zico hydraulic Ladder Access System To be wired so only operable when park brake is engaged and R2 door is closed. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Locate on RS of vehicle
60-41-9010	1	ZICO LAS switched at rear above tail light Switch is located on same side as electric rack
INSTRUMENTATION		
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-1200	1	Stainless steel instrument panels - each side
70-11-1510	1	Stainless steel instrument panel - top
70-11-2000	1	Top mount instrument panel Throttle control cannot be higher than 50" above the operator's standing position or less than 32" above the operator's standing position.
70-11-2500	1	Transverse walkway
70-11-2600	1	Tread plate overlay on back of chassis cab
70-11-3000	1	Mansaver bars - 20"
70-11-3200	1	Colour coded tags
70-11-3501	1	Compartments in ends of walkway not required
70-11-4506	1	Diamondback grip type panel hood step right side
70-11-4606	1	Diamondback grip type panel hood step left side
70-11-5500	1	Right side tread plate pump access door No opening dimension less than 18"

PART NO	QTY	DESCRIPTION
70-11-5600	1	Left side tread plate pump access door No opening dimension less than 18"
70-11-5700	1	Transverse tread plate pump access door No opening dimension less than 18"
70-11-7500	1	Heat pan-aluminum
70-11-8000	1	Heater in pump compartment Switched on pump panel
70-20-1120	2	4-1/2" compound gauge - dual face 0-400 Thuemling brand
70-20-2170	8	2-1/2" pressure gauge - dual face 0-400 - Thuemling brand
70-20-2500	1	Primer control For main pump
70-20-2501	2	Additional Primer control Pre Prime for RS and LS inlets
70-20-3100	1	Class One Governor Control Throttle can be no lower than 32" and no higher than 50" from operator's standing position.
70-20-3500	1	Electric water level gauge on pump panel, Class One
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	Heat exchanger control valve Locate on pump panel
70-21-1500	1	Electric Foam Level gauge Include access to and room for sender in front of body and back of pump house
70-21-5500	1	Panel readout for Battery Conditioner At LS cab step next to 120 volt inlet
ACCESSORIES		
80-11-5000	2	6" x 10' lightweight suction hose (ea) Tube mount
80-12-2500	1	6" barrel strainer Ship loose
80-12-4500	1	6" low level strainer with 1-1/2" venturi connection Ship loose
80-13-0500	1	Rubber mallet Ship loose
80-13-1000	2	Hose wrenches (double) with holder Ship loose
80-13-1100	1	Hose wrenches (triple) with holder Ship loose

PART NO	QTY	DESCRIPTION
80-13-1500	1	Bar with bracket Mount horizontally above rear step
80-13-2200	1	Pike pole, fibreglass handle - 8' long Tube mount
80-13-2500	1	Pike pole, fibreglass handle - 10' long Tube mount
80-13-4000	1	Axe, pick head, fibreglass handle and bracket Mount inside rear compartment
80-13-4500	1	Axe, flat head, fibreglass handle and bracket Mount inside rear compartment
80-14-0500	1	24' 2 section extension ladder PEL 24 Mount on LAS
80-14-5500	1	14' aluminum roof ladder PRL-14 Mount on LAS
80-14-8500	1	10' aluminum folding attic ladder FL-10 Mount on LAS
80-14-9000	1	Attic ladder bracket (Zico) Mount on LAS
80-15-0500	1	1500 l gallon portable tank - Husky Mount on PTS
80-16-0500	1	Akron 3423 Portable/deck monitor with stacked tips Mount on monitor plumbing Provide Storz adapters on ground base for customer hose
80-18-0500	4	SCBA bracket with strap - compt mount Install on Zico Quic-Index bracket in L3
80-18-0700	1	ZICO Quic Index SCBA carousel Does not include SCBA brackets Install in sliding tray in L3 compartment
80-19-0500	2	Large folding wheel chock - aluminum (ea) not mounted Ship loose
80-19-0600	2	Horizontal bracket for folding wheel chock (ea) Ship loose
80-20-10AA	1	4" Storz x 2-1/2" Storz adapter with Storz cap