



Shop Order-00-10-31: Unclassified

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**Exp. Date:** 05/08/2013  
**Quote No:** RSEON-0013      **Job/Order No:** 17341  
**BODY:** 00-10-31      Metalfab Tanker - ULC 11/09

02/13/2017

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PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			<b>== Metalfab Tanker - ULC 11/09 - 0.000 ==</b>	<b>1</b>	<b>MTL</b>
			<b>Change Order E</b>	<b>1</b>	<b>MTL</b>
00-10-1000	S		Metalfab Tanker	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
00-20-1800			Ultra Tank Lifetime Warranty	1	MTL
00-20-2000			Plant Visits - unlimited at customer expense	1	MTL
00-20-3000			No Bonding Required	1	MTL
00-20-3500			Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000			Quality System registered to ISO 9001:2008	1	MTL
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent	1	MTL
<b>10-11-0500</b>	<b>S</b>		<b>NFPA 1901-2009 Compliance</b>	<b>1</b>	<b>MTL</b>
<b>10-11-1100</b>			<b>ULC S515-04 Compliance</b>	<b>1</b>	<b>MTL</b>
10-11-1500		>	ULC Testing	1	MTL
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
<b>10-11-3600</b>	<b>S</b>	>	<b>Delivery - FOB Fire Department</b>	<b>1</b>	<b>MTL</b>
10-11-4000			Payment Terms - Chassis Net 10 days, Balance COD	1	MTL
			CHASSIS INFORMATION	1	MTL
<b>20-11-1000</b>	<b>S</b>		<b>Chassis supplied by Metalfab</b>	<b>1</b>	<b>MTL</b>
<b>20-11-1010</b>	<b>U</b>	<	<b>Changes to Chassis per Pre Construction Meeting</b>	<b>1</b>	
			Engine fan to be Clutch Fan Type		
			Through compartment rear of entry doors is to have a divider in the middle		
			Fuel fill to be on left hand side		
			Lock up - Both axes and differential - 4 wheel lock		
			Change air tank drains to manual cable drains - No auto drains		
			Cab circulation fans to have individual rocker switches		
			Floor mats to be black in colour		
			Department to go to Spartan plant to inspect truck before it is shipped to Metalfab		
			Two copies of engine and transmission operation manuals required for ULC		
			Change quantity of engine service manuals from two to one		
			Change quantity of transmission service manuals from two to one		

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20-11-1500	S		<b>2013 Emission chassis modifications</b>	1	MTL
20-11-1700	S		<b>Chassis Motor Vehicle Inspection required - ON</b>	1	MTL
20-21-0500			Fluid capacity plate	1	MTL
20-21-1000			Maximum riders sign	1	MTL
20-21-1100	U		<b>Label In Cab "DO NOT WEAR HELMET WHILE SEATED"</b>	1	
20-21-1500			<b>Seat belt warning labels</b>	1	MTL
20-21-1600			Apparatus Information Label	1	MTL
20-21-2000			<b>Non removable key</b>	1	MTL
20-21-2500			Shifter lock not required (Automatic with push button shift)	1	MTL
20-21-3500			Rear step warning label	1	MTL
20-21-4000	S		<b>Rear mudflaps</b>	1	MTL
20-31-0100			Fuel tank or step covers not required	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1900			Chassis cab not painted	1	MTL
20-31-7000	U		<b>SS nut covers, hub caps and high hats</b>	1	
20-41-0600			Intake air shutoff for engine not required	1	MTL
20-41-1500			<b>Extend exhaust pipe - RS front of rear wheels</b>	1	MTL
20-41-1900			Battery boost terminals	1	MTL
20-41-2000	S		<b>Chassis batteries remain in OEM location</b>	1	MTL
20-41-2200	U		<b>Price Adjustment</b>	1	
20-41-2550	U		<b>Rear Fuel Fill</b>	1	
20-41-2600			<b>Chassis fuel tank remains in OEM location</b>	1	MTL
20-41-5000			Rear Tow Hooks - under body	1	MTL
20-51-0700			<b>Master Battery Disconnect included with chassis</b>	1	MTL
20-51-2500			<b>Back up alarm included with chassis</b>	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-52-1400			Chassis alternator to remain	1	MTL
20-52-3000	S	>	<b>Chassis steering wheel lined up by Metalfab</b>	1	MTL
20-60-0400			Chassis wheelbase does not change	1	MTL
20-99-05AA	U	<	<b>Front SS Swivel License Plate Bracket</b>	1	
			There shall be a stainless steel hinged license plate bracket installed on the underside of the bumper to house the front license plate.		
20-99-10AA	U	<	<b>Cab Map Box</b>	1	
			An aluminum map storage box shall be installed in the cab and shall be mounted between and just behind the driver and passenger seating position. The box shall be constructed of 1/8" smooth aluminum. Two hinged drop down doors with push button latches shall be installed on the front of the box. The driver's side storage shall be for general use. The officer's side storage shall have four equally spaced slots for storage of ring binders, map books, etc. Each latch shall have a 50 lbs rating. The box shall be secured and tested to meet with current NFPA Requirements. The map storage box shall be a minimum of 12" Deep and 4600 cubic inches of storage. The map storage box shall be painted gray. ***Design to be confirmed and approved by Department upon receipt of chassis.		
20-99-1500	U	<	<b>Supply and install 091-9HP-AD Auto Pump</b>	1	
			Change the Kussmaul compressor included with the chassis from 12 Volt to 120 Volt - remove the existing compressor and supply and install a 091-9HP-AD Auto Pump AC HP - Auto Drain with 091-9HP H mounting plate.		
			PUMP AND PLUMBING	1	MTL
30-11-0100			<b>Pump not required</b>	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
30-20-0100			<b>Pump Panel not required</b>	1	MTL
30-20-1500			Piping galvanized steel - general	1	MTL
30-20-1700	S		<b>1-1/2" thread specifications - NPSH</b>	1	MTL
30-20-1800	S		<b>2-1/2" thread specifications - CSA</b>	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
			WATER AND FOAM TANKS	1	MTL
40-11-2100			Ultra-Tank water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7500			<b>Tank capacity 2500 Imperial Gallons</b>	1	MTL
40-23-0500			<b>1" water level gauge connection</b>	1	MTL
40-30-0500			<b>Sump drain valve (3" gate valve) with linkage</b>	1	MTL
40-30-1100			<b>Water Fill Box middle left side</b>	1	MTL
40-31-4500			10" rear Newton dump, painted steel	1	MTL
40-31-5000	S	<	<b>Newton dump - Flip Down Chute</b>	1	MTL
			A fold down aluminum (deck plate) extension shall be added to the rotating dump chute 40-31-5600 (in place of telescoping chute).		
40-31-5500			<b>Electric operator for Newton dump</b>	1	MTL
40-31-5600			<b>Rotating dump chute for Newton dump painted steel</b>	1	MTL
40-31-5800			<b>Support for rotating dump chute if necessary</b>	1	MTL
40-31-6000	S	<	<b>2-1/2" rear gtd tank fill</b>	1	MTL
			Akron valve		
			30 degree elbow with swivel and plug		
			Bleeder valve required		
			Located on right rear of body, no higher than 5' from ground		
40-31-8000	S		<b>4" Storz rear gtd fill</b>	1	MTL
40-99-05AA	U	<	<b>2-1/2" tank suction valve &amp; Cap (direct to tank)</b>	1	
			Akron valve with male threads and cap - no droop required		
			Located on right rear of body, under swivel dump chute		
40-99-10AA	U	<	<b>3" Tank Suction Valve (Direct to Tank)</b>	1	
			Suction line with 3" Akron ball valve rearward in second front left compartment. Shall be located 12" from rearward wall of compartment.		
			A 45 degree elbow shall be attached to the valve and a 4" female threaded swivel coupling shall be attached to the elbow		
			ELECTRICAL	1	MTL
50-11-0500			<b>Base electrical system</b>	1	MTL
50-11-0600			Warning Light Certification	1	MTL
50-11-0700			Low Voltage Electrical system test	1	MTL
50-11-0800			<b>Low Voltage Electrical System Documents</b>	1	MTL
50-11-0900			<b>Rocker switch panel with master warning switch</b>	1	MTL
50-11-2600	S		<b>Siren to be accessible to driver and officer</b>	1	MTL
50-11-6100	S		<b>Whelen FN72QLED LED light bar NFPA w/chassis</b>	1	MTL
50-11-8600	S		<b>Rear LED beacons-Whelen MCFLED2R (pr) both red</b>	1	MTL
50-12-4600	S		<b>Additional side inter lts (pr)-Whelen red LED 600</b>	1	MTL
50-12-8500	S		<b>Front LED flashers (pr)-Whelen red LED 600 w/chassis</b>	1	MTL
50-12-8600	S		<b>Rear LED flashers (pr)-Whelen red LED 600</b>	1	MTL
50-12-8700	S		<b>Front side inter lts (pr) - Whelen red LED 600 w/chassis</b>	1	MTL
50-12-8800	S		<b>Body side inter lts (pr)-Whelen red LED 600</b>	1	MTL
50-21-1500		<	<b>Rear floods (pr)-Unity</b>	1	MTL
			Switched in cab with work light switch		
			Note that these lights are also used as rear step lights and cannot be managed		
50-21-5100		< >	<b>Compartment lighting - LED tube lights in each compartment</b>	1	MTL
			Vertical in comps fore and aft of rear wheels		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			1 horizontal - full width at the top of the compartment for the four (4) low side compartments over wheels Switched in cab with work light switch		
50-21-5500	S		<i>Door Ajar and Equipment Rack not stowed warning light</i>	1	MTL
50-21-8000	S	<	<i>Step lights for rear body steps</i> Switched in cab with work light switch Flood lights 50-21-1500 will be used as rear step lights	1	MTL
50-21-8200		<	<i>Step lights for chassis steps</i> With chassis - lights automatically come on when door is opened	1	MTL
50-21-8600			<i>LED clearance lts and reflectors</i>	1	MTL
50-21-8800			<i>LED intermediate turn signal/clearance/reflector length &gt;30'</i>	1	MTL
50-22-0700			<i>Whelan 64 LED tail/brake-turn-backup module (pr)</i>	1	MTL
50-31-6010	U		<i>Scene light boxes (ea)</i>	2	
50-31-6011	U		<i>Scene Lights (pr) - FRC Evolution LED 12 Volt</i>	1	
50-31-6500			<i>Ground lighting - NFPA requirement</i>	1	MTL
50-99-05AA	U	<	<i>Whelen RF165NF2 Traffic Advisor</i> The traffic advisor is upgraded to a TA165NF2 from a TA1652L C/W controller TACTRL3A, Part number 1570910. No cost upgrade as vehicle will be shown at OAFc.	1	
50-99-10AA	U	<	<i>Hosebed Light</i> There shall be 12V LED tube lights mounted across the front of the hose bed to provide hose bed lighting. These lights will be switched with the work light switch in the chassis cab.	1	
			BODY	1	MTL
60-10-1600	S	<	<i>Tandem axle extruded aluminum body</i> Bolt in access plates in fender liners Note that the back of the body behind the tail lights is to be smooth plate to allow installation of reflective striping.	1	MTL
60-10-4100			No "beavertail" rear step supports	1	MTL
60-10-4500		>	<i>Aluminum tread plate fender surround</i>	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL
60-10-5400		>	Diamondback 19" rear step/pumphouse steps	1	MTL
60-10-6500			<i>Bolt on extruded aluminum rub rail</i>	1	MTL
60-11-0300		>	<i>Front left side compartments full height</i>	1	MTL
60-11-0350		>	<i>Second front left side compartments full height</i>	1	MTL
60-11-0700		>	<i>Front right side compartments full height</i>	1	MTL
60-11-0750		>	<i>Second front right side compartments full height</i>	1	MTL
60-11-0900		>	<i>Rear left side compartments intermediate height</i>	1	MTL
60-11-1300		>	<i>Rear right side compartments intermediate height</i>	1	MTL
60-11-1900		>	<i>Low side compartment (up to 18") each</i>	4	MTL
60-11-3100			<i>No rear compartment</i>	1	MTL
60-11-4500		<	<i>Flush mount aluminum door - aluminum body</i> *** "D" handles Four (4) flush mount doors per 60-11-1900 and one (1) flush mount door at rear for hose tunnel Magnetic switches required to operate door ajar	5	MTL
60-11-5500	S		<i>Rollup door</i>	6	MTL
60-31-4100		<	<i>Extruded aluminum handrails</i> 2 - 4' handrail - vertical at rear 1 - 6' handrail - horizontal at rear under hose bed 2 - 1' handrail - mounted on top of each hosebed side at rear Minimum 2" clearance from handrail to any surface	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
60-31-5500			<i>Steps at rear of body</i>	1	MTL
60-31-6500			Compartment matting-Turtle tile	1	MTL
60-31-8800	S	<	<i>Sliding tray (ea) - 600 pound capacity - 70% Extension</i>	2	MTL
			Tray 1 - Left side second front compartment - tray sized for pump		
			-approximate dimensions of this portable pump are 24.5" W x 27.625" L x 28.75" H		
			Tray 2 - Right side rear compartment - tray sized for compartment (as large as possible)		
			Reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
60-31-9000		<	<i>Tip down tray - 30 degree, 250 pound capacity</i>	2	MTL
			Tip down trays are to be adjustable in height and are located in the upper portion of the following compartments;		
			Tip down tray 1 - Second front left side compartment		
			Tip down tray 2 - Second front right side compartment		
			Reflective stripe is applied on the exposed edge for visibility when the compartment door is open		
60-32-3500	S		<i>Adjustable hose divider</i>	2	MTL
60-32-7500		<	<i>Hose bed - aluminum</i>	1	MTL
			Capacity for 200' - 1-3/4" hose, and 300' - 4" Hose		
60-33-0100			<i>Paint exterior - Imron Elite and clearcoat</i>	1	MTL
60-33-0200			Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600			<i>Chassis wheels not painted</i>	1	MTL
60-33-1500			Buffed finish compartment interior	1	MTL
60-33-2200			<i>Lettering - 80 letters up to 3" tall - 3 colour</i>	1	MTL
60-33-3100			<i>Reflective stripe - 6"</i>	1	MTL
60-33-3310	U		<i>Rear Reflective Chevron Red/Yellow</i>	1	
60-33-3500	S	<	<i>Tarp over hose bed</i>	1	MTL
			Constructed of black 23 oz. PVC vinyl coated polyester. The base fabric shall be 1000 x 1300 Denier Polyester with a fabric count of 20 x 20 square inch minimum.		
			Front edge to be mechanically attached to body and Velcro on sides, quarter turn fasteners each corner, weighted front over front partition, flap at rear with Velcro straps.		
60-40-5500	S	<	<i>Suction hose tube (each)</i>	2	MTL
			Tube to be completely sealed and have a flush mount access door on the rear		
			Tube to be located on left side above rear side compartment and compartments over wheels for storage of (2) two 4" suction hose in two 12" Wide x 8" High tunnels. If tube is over 11'-00" in length, add a stop at the 11' mark.		
			Engineering calculates compartments will be 10-1/8" x 7" - still ample room for suction hoses and pike pole tubes.		
60-41-1000		<	<i>Pike Pole tube</i>	1	MTL
			Provisions for a pike pole to be affixed to upper left corner of bottom suction hose tunnel		
60-41-6000			<i>Zico electric portable tank rack</i>	1	MTL
60-41-6010			<i>ZICO PTS switched at rear above tail light</i>	1	MTL
60-41-6090			<i>No tread plate on exterior of ZICO PTS</i>	1	MTL
60-41-7100			<i>Tread plate on body behind porta tank rack</i>	1	MTL
60-99-05AA	U	<	<i>Fixed Shelf</i>	4	
			There shall be a permanent mounted aluminum shelf provided at the change in depth in the following		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			compartments;		
			Shelf 1 - Left second front side compartment		
			Shelf 2 - Left rear side compartment		
			Shelf 3 - Right second front side compartment		
			Shelf 4 - Right rear side compartment		
60-99-10AA	U		<i>License Plate Bracket &amp; LED Light</i>	1	
60-99-15AA	U		<i>Corner guards front and rear of body</i>	1	
			INSTRUMENTATION	1	MTL
70-20-3510	S		<i>Electric water level gauge in front left compartment &amp; Rear</i>	1	MTL
			ACCESSORIES	1	MTL
80-15-1000	S		<i>2100 gallon Husky portable tank</i>	1	MTL
80-99-05AA	U		<i>Tohatsu Portable Pump - Model VC72AS</i>	1	