

XOMX 310301 - 310314

Quote Number 10499R3

Model Number Customer

File / Rev / Date / Engineer

RFQ Date / Engineer **Number of Cars**

T07000/4/9-24-2007/SEW

11/28/2006 / REW 14

Capacities	Comp. 1	Comp. 2	Comp. 3		
Shell Capacity	8,823 Gal	8,823 Gal.	8,823 Gal.	Commodity	Lube Oils / Waxes
Outage - 2%	176 Gal.	176 Gal.	176 Gal.	Tank Specification	DOT 111A100W1
Effective Capacity	8,647 Gal.	8,647 Gal.	8,647 Gal.	Stenciled Specification	AAR 211A100W1
Allowable Weight/Gal.	7.52#			Est. Light weight	88,200#
Clearance Diagram	Plate C			Maximum Gross Weight	286,000#

Notes - Cars are constructed in accordance with all applicable AAR and DOT requirements, including S-286-2002 and MSRP C-III, Section 2.5 for 286,000 lb. gross rail load. Some rail lines have weight restrictions that could limit use of these cars. DOT specification tank cars require a federal exemption if loaded to more than 263,000 lb.

Car Dimensions

Tank 110 1/4" I.D. X 53'-8 7/8" Tan To Tan **Head Material &Thickness** 7/16" ASTM A516 Gr.70 Length OCPF 63'-3 1/4" Shell Material & Thickness 7/16" ASTM A516 Gr.70 **Truck Centers** 50'-6 3/4" Vacuum Rating Full

0.2181 in/ft Design / Test Pressure 100 psig / 165 psig Slope

Note - Shell material requires MTR's with transverse tensile test. Head material requires MTR's in the heat treat condition with transverse tensile test. Girth seams are to be ground flush 6" either side of the longitudinal center line.

Top Fittings

20" I.D. CS Flued Nozzle **Fittings Nozzle** 15" Flued Nozzle with Bolted CS Cover Manway Plate w/3 Lift Lugs

Manway Cover Hinged 8-Bolt CS Casting w/Lift Assist **Protective Housing** 11 Ga Hinged

Vacuum Relief 3/4# Midland A 220-W-NS w/ Carolina **Discharge Connection** 3" Ellcon National Flanged X Screwed Seal Material's 4273 O'Ring

32920 Ball Valve w/SS Body, SS Trim, and 3" CS hex head plug

3" Sch 40 304L SS Pipe (PBE) Welded Safety Relief 'Valve. 75# Midland A-1075 Modified

Discharge Pipe w/Carolina Seal Material 4273 O'Ring To The Cover Plate w/ 316L/304L SS Mounted On A Separate CS Nozzle Guide And Pads Mounted inside the Top Platform Area

Air / Vapor Connection

1" Jamesbury Screwed 6FR2200MT Ball Valve w/ CS Body, SS Trim, And CS hex head Plug Mounted On A 2" X 1" CS Flanged by Screwed Adapter w/2"-150# RF Flange & 1" Sch 80 CS

Pipe Bolted To The Cover Plate

Gage Device None Thermowell None Sample Line None

Visual Gauge, 316L SS, Markings In

Inches, Crossbar at 2% for 286 GRL

Note - All gasket surfaces are to be between 125 and 500 RMS. Manway eyebolts to be 7/8" J429 Gr. 5 w/hvy. hex nut & F436 hardened washers supplied by Salco. Eyebolts to be secured using pivot pin & cotter pin. Fittings fasteners are to be A193 B7 w A194 2H nuts. No lock washers allowed on fittings fasteners. Fittings fasteners to be lubricated with Jet-Lube 550 anti-seize grease.

Bottom Fittings

Outage Scale

Midland A520 4" Low Profile Ball Valve **Outlet Valve Outlet Saddle** Universal Design

w/CS Body & SS Trim & std handle 4" CS Nozzle, w/ Salco Aluminum Cap **Outlet Fittings** Sump None

& Plug

Note - Bottom valve is not steam jacketed. Handle is located at the side of the skid. Valve can be operated while under the car.

Gaskets/O-Rings

Manway Cover VSP Cycletight (ePTFE/SS). Safety Relief Gasket/O-ring Gylon 3545 / Carolina Seal 4273 **Fittings Nozzle** Garlock Gylon 3545 **Outlet Valve** Garlock Gylon 3545

Air / Discharge Gylon 3545 / Gylon 3545 **Outlet Nozzle / Cap** Gylon 3545 / Gylon 3545 Vacuum Relief/O-ring Thermowell / Sample / Gage Gylon 3545 / Carolina Seal 4273 None/None/None

Note - Compatibility of the sealing materials is the responsibility of the shipper and are supplied here without any representations of any kind,

Either expressed or implied. Use of said materials is at shippers own risk and without any liability to Trinity Tank Car Inc.

Coils

Size, Type, # of Lines 8" Half Oval, 12 Line Exterior Serpentine Inlets / Outlets One 2" Inlet, One 2" Outlet

Note - Coil inlets/outlets include welded directional arrows & replaceable coil nipples.

Insulation Jacket

Insulation Type 4" Fiberglass Jacket Head & Shell 11 Ga. Carbon Steel

Note - Flashings to clear coil inlets & outlets 1" all around. Jacket interior & Tank Under Insulation Coating to be Williams-Hayward 62-6932NVHT.



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Platforms

Тор Divided Type w/ 9 1/2" Wide X 34' Long Galvanized CS Plank Grating, Shipping papers Holder, Side Ladders @ Center Of Car (Anti-Skid Applied To Tank Shell

End

Single 11 1/2" Wide X Full Width Long Galvanized CS Plank Grating

Between Grating)

Note - Cars are equipped with two brass grounding studs at each of the three manway openings of top platform handrail and one stud on the support at the bottom of each side ladder. Ladder wells are required. Anti-skid is to enclose the safety relief valve. Openings at manway locations of compartments 1 & 3 are to be closed with swing gates. Galvanized boards are not removed for blast or paint.

Underframe

Type & Section Type 23 Stub Sill Saddle Mount Ellcon 8500 / TMB 231-L **Brakes**

Draft Gear Couplers & Yokes

M-901-G (ASF Twin Pack E325G) SE60EE / None (Manganese Coupler

Center Plate 16" Forged

Truck Mounted Brakes **Empty Load Brakes**

Yes

Carrier Wear Plate)

Note - Inside of draft sill to be primed. Stencil reporting marks on bolsters, sideframes and axles.

Trucks

Capacity/Type ASF Motion Control with Bolted-Only Column Wear Plates, SS Vert. Wear

Rings, And Manganese Horiz. Wear

Stucki CCB4500XT Constant Contact

Wheels / Bearings

36" 1 Wear Class C Wheels

6-1/2 X 9 Brenco Roller Bearings

Plates

3-11/16" Travel D-5

Roller Bearing Adapters

Pennsy Adapter Plus w/ Hardened

Springs

Brake Beams

Shoulders

#24 Unit Type (Miner 2000) w/CS Brake Beam Guides

Note - Brenco Gold roller bearings with Mobilith Synthetic Grease (SHC221).

Surface Prep

Side Bearings

Interior Prep For Lining, SP-7 (brush off) blast, Mineral Oil Wipe w/Trinity Supplied Oil Note - Girth seams to be ground flush 6 " each side of the longitudinal centerline.

Black DTM Epoxy

(Strathmore)

Stencil

AAR / DOT / Yellow Reflector Decals

Chemtrec

Paint

Paint, Stencil, Lining

Lining None Note - Apply black RTV silicone caulk around route cardholder, placard holder, hand rail, and ladder connections.

Stencil top flange gasket, o-ring information and BOV model and gasket information in 2 inch letters.

Apply gasket / o'ring material / top valve / safety valve and BOV decals on both sides of car @ each compartment.

Exceptions

- 1. Welding to be in compliance with Trinity welding standards.
- 2. Weld Procedures are not shown on drawings. Weld procedures are available for review at the facility performing the weld.
- 3. AZFRL valve does not allow for full drainage around the valve.