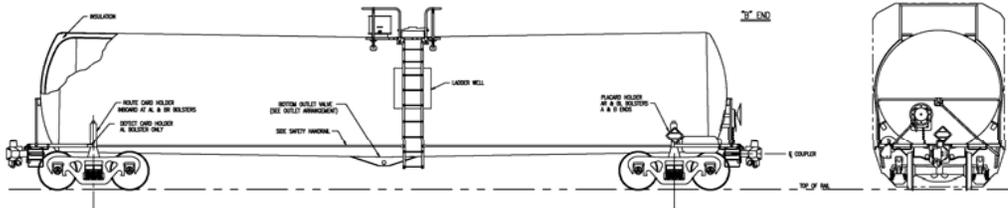


28,371 Gallons Capacity Tank Car

REPORTING MARKS & QTY: 100 cars

REVISION: 3 / 10-1-2013 / JLP Revised per Change Order D.



COATINGS AND STENCILS			
Surface Prep., Exterior	SSPC-SP6	Paint, Exterior	Black DTM Epoxy
Surface Prep., Interior	Sweep Clean	Lining, Interior	None
Standard Stencils	AAR/DOT Vinyl Decals w/ Yellow Reflector Decals	Customer Stencils	Chemtrec decal, international
WALKWAYS AND PLATFORMS			
Top	Divided CS Plank, Grounding Studs, 9 1/2" x 8" w/ Side Ladders	End	Full Width x 11.5" Plank, CS

GENERAL	
Year Built	2014
Car Serial Number - Low	T12139-1
Car Serial Number - High	T12139-100
Ref Drawing Number	
Tank Specification	DOT111A100W1
Stenciled Specification	DOT111A100W1
Sized For	Crude Oil
DIMENSIONS AND WEIGHTS	
Draft Sill Design	Type 24 Stub Sill
Tank, Tangent to Tangent	48'-9 7/8"
Tank, ID	116 1/4"
Length over Coupler Pulling Faces	59'-4 1/2"
Truck Centers	45'-10"
Tank Slope	0.2181 in/ft
Head Mat'l and Thickness	7/16" TC128 Gr B Normalized
Shell Mat'l and Thickness	7/16" TC128 Gr B Normalized
Vacuum Rating	4.34 psig
Design Pressure/Test Pressure	500/165 psig
Clearance Diagram, AAR	"C"
Capacity, Shell Full, Gallons	28,371
Light Weight, lbs, est.	83,000
Maximum Gross Rail Load, lbs	286,000
Load Limit @ GRL	203,000
Ideal Weight per Gallon	7.53 lb/gal
Outage, 5%, Gallons	1419
Effective Capacity, Gallons	26,952
Commodity	Crude Oil PG I or II
Curv., Horiz., Uncoupled	180'-0"
Curv., Horiz., Coupled To Base Car	250'-0"
Curv., Vert., Uncoupled	850'-0"
Curv., Vert., Coupled To Base Car	1650'-0"

TRUCKS	
Wheels	Class "C" 1W 36", w/ AAR 1B Tread Profile
Axles	AAR M-101 Grade "F", 6-1/2" x 9" Std Forge
Roller Bearings	AAR NFL, Class "K", 6-1/2" x 9" Brenco
Adapters	6-1/2" x 9", Pennsy Adapters Plus, ASF
Truck Side Frame:	Gr "B+" Steel to AAR M-203 & M-210, ASF
Truck Bolster:	Gr "B+" Steel to AAR M-202, M-210 & S-305, ASF
Center Plate Liners, Vert/ Horiz	1-3/4" x 16" dia net, SST welded/Manganese
Stabilizers	Motion Control, ASF
Truck Springs	D5, 3-11/16" travel, 286K GRL SCT
Pedestal Roof Liners	None
Truck Side Bearing	Const Contact Long Travel TCC-III-45-LT, Miner
Brake Beam	AAR No. 24 Miner
Brake Beam Wr Plt	Metallic, Miner
Brake Shoes	AAR 2" Comp, RRFP
Brake Shoe Keys	Forged
Roller Bearing Retainer Keys	None
AIR BRAKES	
Type of Brakes	Body Mounted, Conventional Valve
Brake Cylinder Size	10" x 12"
Braking Ratio-Loaded	Min 11%, Max 14%
Braking Ratio-Empty	Min 15%, Max 32%
Braking Ratio-Handbrake	Min 10%
Empty/Load Device	Side Frame Actuated
Slack Adjuster	AAR automatic, double acting
Handbrake	Group "N", Long Release Handle, Bell Crank
Hose Support	Cable Strap, 20406 IRECO
DRAFT SYSTEM	
Couplers	AAR SE60EE, M&T
Yokes	AAR SY40AE, M&T
Coupler Carrier Wear Plate	AAR Manganese steel
Draft Gear	AAR M901E, Miner TF-880

TOP FITTINGS			
Manway	20" Inside Diameter CS Flued Nozzle With Reinforcement Pad	Fittings Nozzle	20" Inside Diameter CS Flued Nozzle w/ Bolted CS Cover Plate With Reinforcement Pad
Manway Cover	6 Bolt Hinged Steel Casting (TRN-1)	Protective Housing	3/4 inch Wall Housing w/ Flat Lid
Vacuum Relief	4#, Midland A220-W-NS	Discharge Conn.	3" Flanged Full port Ball Valve w/ CS Body, SS Trim, & CS Blind w/ Plug
Safety Relief	Valve, 165# Midland A-1165 w/T&G Mounted On Fittings Cover Plate	Discharge Pipe	3" Sch 40 CS Pipe welded to the underside of the Coverplate w/ CS guide & pads
Outage Scale	SS Visual Bar	Air / Vapor Connection	(2) 2" Flanged Full port Ball Valve w/ CS Body, SS Trim, & CS Blind. One w/ plug the other with Salco quick connect K20IUMP1A.
Gage Device	None		
Sample Line	None		
Thermowell	None		

BOTTOM FITTINGS			
Outlet Valve	4" Jamesbury 9RET4-22HBXTFO Strm Jktd Ext. Ball Valve w/CS Body, SS Trim & Intermediate handle	Outlet Fittings	4" CS Noz, CS Cap & 2" CS Plug
AUX Valve	None	Outlet Saddle	Trinity Combination Saddle-Sump
		Sump	Integral With Saddle

GASKETS/O-RINGS			
Manway Cover	Viton A	Safety Relief/O'Ring	Teadit Blue TF-1570 / Viton A
Fittings Nozzle	Teadit Blue TF-1570	Outlet Valve	Teadit Blue TF-1570
Air / Discharge	Teadit Blue/Teadit Blue, TF-1570	Outlet Nozzle / Cap	Teadit Blue TF-1570 / Viton A
Vacuum Relief	Teadit Blue TF-1570, Viton A	T.well/Sample/Gage	None

COILS			
Size, Type, #	5" / 8" Half Oval, 12L-2T Exterior, Serpentine	Inlets / Outlets	One 2" Inlet, One 2" Outlet
		Approx. Heating Area	352 Sq. Ft.
INSULATION JACKET			
Insulation Type	4" Fiberglass	Jacket Head / Shell	1/2" Carbon Steel / 11 Ga. Carbon Steel

Notes

Petroleum Crude Oil / PG I or II / Car meets C III, Chapter 2, 2.7 requirements.
Cars include side ladder recess wells and inboard wheel wells.
Bottom valve steam jacket is separate from the car.

Gasket selection is for estimating only. It is the shipper's responsibility to properly package their product.