



1430 Highway 87 East  
Billings, MT 59101



## SPECIFICATIONS

### MAC LTT DOT406 High GVWR Semi Trailer

#### A General

1	<b>Trailer Type</b>	Aluminum elliptical drop center <u>or</u> straight barrel design available.
2	<b>Overall Length</b>	Varies, up to 53'.
3	<b>Specification</b>	DOT 406.
4	<b>Operating Pressure</b>	3.3 psi with 5 psi test pressure.
5	<b>Max. Product Density</b>	7.5 lbs. per U.S. gallon.
6	<b>Max. Loading Temp.</b>	150° F max. operating temperature.
7	<b>Products</b>	Refined fuels, gasoline & diesel.
8	<b>Warranty</b>	Standard (3) year limited warranty.

#### B Barrel

1	<b>Compartments</b>	Various compartments and compartment sizes available.
2	<b>Capacity</b>	Various capacities available.
3	<b>Baffles</b>	5454-0 flanged aluminum baffles with large center hole, 3" holes at 9, 12, & 3 o'clock positions and large drain tunnel at bottom.
4	<b>Shell</b>	5454-H32 Aluminum, .188" buffed top and sides, .249" mill finished bottom.
5	<b>End Heads</b>	5454 aluminum flanged & dished heads, buffed finish.
6	<b>Dome Covers</b>	10"x16" with pressure/vacuum relief vent, offset for vapor vent, and optic probe.
7	<b>Overturn Protection</b>	Aluminum "V" extrusion on top both curbside and roadside. Dam plates at each end with 1/2" coupling and plug.
8	<b>Overturn Protection Drains</b>	Through ladder at rear.
9	<b>Cleanouts</b>	None-optional.

#### C Valving and Discharge Piping

1	<b>Sumps</b>	4" aluminum drain pocket located at low point per compartment.
2	<b>Emergency Valves</b>	5" x 4" aluminum air-operated valve per compartment.
3	<b>Emergency Valve Operator</b>	Toggle switches and air distributor assembly in cabinet with pressure gauge and charge valve.
4	<b>Emergency Valve Closure</b>	Emergency closure located at front of front fender, streetside.
5	<b>Piping</b>	4" sch. 10 aluminum piping from each compartment to run to center of trailer and directed to curbside API rack.
6	<b>Manifold</b>	None-optional.
7	<b>Bottom Loading</b>	4" load/unload heads with side-mount sight glass.

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8	<b>Gravity Drops</b>	Gravity drop adapters with 4" male adapters and caps.
9	<b>Sight Glass</b>	None-optional.
10	<b>Splash Deflector</b>	Aluminum splash deflector per compartment over discharge valve.
11	<b>Brake Interlock Valve</b>	Interlock bar on bottom loading heads and vapor recovery outlets.
12	<b>Pump / Suction Line</b>	None-optional.
13	<b>Pump / Platform</b>	None-optional.
<b>D Vapor Recovery System</b>		
1	<b>Vent</b>	Sequential 3" air operated vent per compartment.
2	<b>Vapor Return system</b>	4" sch. 40 aluminum pipe through shell to curbside API. Terminate with 4" adapter and cap.
<b>E Overfill System</b>		
1	<b>Overfill System</b>	Overfill System: Overfill Monitor. Overfill probes, set at 60 gallons outage. Dual socket (optic and thermistor).
2	<b>Bottom Probes</b>	None-optional.
3	<b>TIM Chip</b>	Included.
4	<b>Grounding Bolt</b>	Included.
5	<b>Overfill Controls Location</b>	Toggles, gauges, & receptacles located curbside in tool box.
<b>F Trim</b>		
1	<b>Document Holder</b>	Mounted on landing leg pedestal.
2	<b>Capacity Level Indicators</b>	None-optional.
3	<b>Static Studs</b>	None-optional.
4	<b>Static Cables</b>	1/8" cable from manhole collar to bottom of tank.
5	<b>Placards</b>	Slide-in type placard holders (1203/1993 inserts).
6	<b>Product Indicators</b>	8-sided rotating product indicator above each loading valve.
7	<b>Gauge Stick</b>	None-optional.
8	<b>Gauge Stick Tube</b>	None-optional.
9	<b>Cone/Bucket Holder</b>	None-optional.
10	<b>Fire Extinguisher</b>	None-optional.
11	<b>Chain Hanger</b>	None-optional.
12	<b>Air Deflectors</b>	None-optional.
<b>G Cabinet(s) &amp; Components</b>		
1	<b>Tool Box</b>	Aluminum cabinet, 30" high x 24" deep x 44" long with two aluminum side hinged doors, gas strut wind stays, door seals and (2) single point latches. Mount on curbside at rear of API discharge piping.
2	<b>Operator Box</b>	None-optional.
<b>H Hose Carriers</b>		
1	<b>Hose Carrier(s)</b>	(2) 7" x 21' aluminum hose tubes with front door and drain at rear.
2	<b>Hose Carriers Location(s)</b>	Curbside from rear to front.

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### I Ladder/Platform/Walkway

- 1 Ladder Bolt-on aluminum at rear with non-slip steps and (3) rungs on top step.
- 2 Top Walkway Non-skid tape between dome rails.

### J Fenders

- 1 Fenders-Front Ribbed aluminum, full tandem, single radius.
- 2 Fenders-Rear Ribbed aluminum, full tridem, single radius and mounted to the rear frame (fixed tridem). Ribbed aluminum, single axle fender mounted to the rear frame (lift/steer).
- 3 Mudflaps MAC LTT mudflaps at rear of all fenders.

### K Landing Gear

- 1 Landing Gear Jost 2-speed AlumiLight AX150 Landing Gear.
- 2 Crank Location Curbside.
- 3 Frame Formed aluminum pedestal frame.

### M Upper Fifth Wheel Coupler

- 1 King Pin Plate Inverted coated steel upper coupler. Set at 19". Drill additional holes for 19-28" adjustment.

### N Suspension / Undercarriage

- 1 Suspension Hendrickson quad-axle with 60" axle spacing on tri group. Include lift/steer at rear with a 78" spacing from tri group. Overall spread is 16'6".  
**Various multi-axle configurations available, up to six axles.**
- 2 Axles (3) Hendrickson Intraax AANT23K, 71.5" track and "P-series" spindles.  
5-3/4" diameter axles with black soft-coat finish and galvanized hangers.  
(1) Hendrickson liftable/steerable located at the rear position.  
Install Wheel Monitor RM-50 reverse lift axle control kit for automatic lift in reverse.  
**Various lift-axle, fixed-axle configurations available.**
- 3 Hubs Walther EMC Dura-Light.
- 4 Drums / Rotors Fabricated steel.
- 5 Dump Valve None-optional.
- 6 Brakes 16.5" x 7" HXS. **(Optional Air Disc Brakes)**
- 7 Brake Chambers Spring brake chambers.
- 8 Slack Adjusters 5.5" automatic slack adjusters.
- 9 Lube Type Semi-fluid grease HXL5.
- 10 ABS System WABCO 4S/2M ABS with malfunction warning light at front of rear fender group.
- 11 Roll Stability None-optional.
- 12 Lift Axle(s) None-optional.
- 13 Hubodometer None-optional.
- 14 Rear End Protection Device Aluminum extruded design.
- 15 Rear Underride Device None required when wheels back exemption applies.
- 16 Hitch None-optional.

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### O Tires and Wheels

- |   |                       |                                     |
|---|-----------------------|-------------------------------------|
| 1 | <b>Wheels</b>         | 8.25 X 22.5 Aluminum buffed finish. |
| 2 | <b>Tires</b>          | 11R22.5 General HT, LRG.            |
| 3 | <b>Tire Carrier</b>   | None-optional.                      |
| 4 | <b>Tire Inflation</b> | None-optional.                      |

### P Air and Electrical

- |   |                                |  |
|---|--------------------------------|--|
| 1 | <b>Truck Connection</b>        | Glad-hands and electrical mounted at front streetside.   |
| 2 | <b>Light System</b>            | Trucklite LED to consist of the following components:<br>(3) LED tail lights in aluminum light housing per side.<br>(1) LED marker light per side on front fender.<br>(1) LED marker light per side on rear light housing (high profile).<br>(1) LED 3 light I.D. cluster on rear end dam plate (dual function).<br>(1) LED midship turn/marker per side.<br>(1) LED center high mount stop light at rear.<br>(1) LED license plate light at rear. |
| 3 | <b>Shell Mounted Clearance</b> | None-optional.   |
| 4 | <b>Backup Lights</b>           | None-optional.   |
| 5 | <b>Cabinet Lights</b>          | None-optional.   |
| 6 | <b>Work Light(s)</b>           | None-optional.   |
| 7 | <b>Extra Light(s)</b>          | None-optional.   |

### Q Paint and Finish

- |   |                          |   |
|---|--------------------------|---|
| 1 | <b>Paint</b>             | Steel parts primed and painted, or powder coated.                           |
| 2 | <b>Color</b>             | Black.  |
| 3 | <b>Conspicuity</b>       | DOT conspicuity reflective tape, discontinuous on centerline of shell side. |
| 4 | <b>Decals</b>            | Standard safety, DOT, warning and safety decals.                            |
| 5 | <b>Dome Rail Stripe</b>  | Black.  |
| 6 | <b>Calibration</b>       | Theoretical calibration with charts in 1/4" increments.                     |
| 7 | <b>Inspections</b>       | Inspections and labels in accordance with DOT requirements.                 |
| 8 | <b>Vapor Tests</b>       | Standard PIKV and EPA Method 27 Vapor Test.                                 |
| 9 | <b>Refinery Exhibits</b> | Chevron Exhibit 'C'.  |