



1430 Highway 87 East
Billings, MT 59101



SPECIFICATIONS

MAC LTT DOT406 Combination A-Train Lead Trailer

A General

1 Trailer Type	Aluminum elliptical drop center or straight barrel design available.
2 Overall Length	Engineering to design based on configuration.
3 Specification	DOT 406.
4 Operating Pressure	3.3 psi with 5 psi test pressure.
5 Max. Product Density	7.5 lbs. per U.S. gallon.
6 Max. Loading Temp.	150° F max. operating temperature.
7 Products	Refined fuels; gasoline & diesel.
8 Warranty	Three year limited warranty.

B Barrel

1 Compartments	Various compartments and compartment sizes available.
2 Capacity	Various capacities available.
3 Baffles	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 Shell	5454-H32 aluminum with .179" buffed sides, top and .188" mill finish bottom.
5 End Heads	5454 aluminum flanged & dished heads, buffed finish.
6 Dome Covers	10" x 16" with pressure/vacuum relief vent, offset for vapor vent and optic probe.
7 Overturn Protection	Aluminum "V" extrusion on top both curbside and roadside. Dam plates at each end with 1/2" coupling and plug.
8 Overturn Protection Drains	Through ladder at rear.
9 Cleanouts	None-optional.

C Valving and Discharge Piping

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

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

J Fenders

- 1 **Fenders-Front** Ribbed aluminum, full tandem, single radius.
- 2 **Fenders-Rear** Ribbed aluminum, full tandem, double radius and mounted to the rear frame.
- 3 **Mudflaps** MAC LTT mudflaps at rear of all fenders.

K Landing Gear

- 1 **Landing Gear** Jost 2-speed AlumiLight AX150 landing gear (10 year warranty).
- 2 **Crank Location** Curbside.
- 3 **Frame** Formed aluminum pedestal frame.

M Upper Fifth Wheel Coupler

- 1 **King Pin Plate** Inverted coated steel upper coupler. 48" ground to coupler height.

N Suspension and Undercarriage

- 1 **Suspension** Hendrickson Intraax AANT23K, 23,000 lb. tandem axle with standard 49" axle spacing. 5-3/4" diameter Hendrickson integrated axles with black soft-coat finish and galvanized hangers. **Various axle configurations available.**
- 2 **Axles** (2) 71-1/2" track with TP spindles (large bearings).
- 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 2S/1M ABS with malfunction warning light at front of rear fender.
- 11 **Roll Stability** Not available on lead unit in a-train configuration.
- 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** **MAC LTT hitch package with air and electric connections at rear.**

O Tires and Wheels

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

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P Air and Electrical

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

Q Paint and Finish

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