



1430 US Highway 87 East
Billings, MT 59101



SPECIFICATIONS

MAC LTT DOT406 Combination A-Train Pull Trailer

A General

1	Trailer Type	Aluminum elliptical drop center <u>or</u> 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 degrees Fahrenheit.
7	Product(s)	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 Cover(s)	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	1 1/4" external poly pipe around perimeter of rear head.
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 street side.
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.

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7	Bottom Loading	4" load/unload heads with side-mount sight glass.
8	Gravity Drop Adaptors	Gravity drop adaptors 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.

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 operator box.

F Trim

1	Document Holder	Included.
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 Indicator(s)	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 Cabinets & Components

1	Cabinets/Tool Box	None-optional.
2	Operator Box	(1) 22" x 22" x 7" cabinet to house operator & overfill components, curbside.

H Hose Carriers

1	Hose Carriers	(1) 7" x 21' aluminum hose tube 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 front 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, double radius and mounted to the dolly.
- 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.

L Front Dolly and Drawbar

- 1 **Turntable** Double row ball bearing design.
- 2 **Drawbar** Fixed length with mesh cover & jack. Hinge height to match lead unit.
- 3 **Drawbar Hardware** (2) Double bushed hinge assemblies.
(1) Swivel eye with bushings.
(1) 1000 lb. capacity jack on driverside.

N Suspension and Undercarriage

- 1 **Suspension** Front: Hutch CH9700 tandem axle under mount weld-on.
Rear: Hutch CH9700 tandem axle flange mount bolt-on.
Air-ride Suspension Optional.
Various axle configurations available.
- 2 **Springs** (8) 2-Stage, 2-leaf springs with free play eliminator bushings.
- 3 **Axles** (4) 71-1/2" track with TP spindles (large bearings).
- 4 **Hubs** Walther EMC Dura-Light.
- 5 **Drums / Rotors** Fabricated steel.
- 6 **Dump Valve** None-optional.
- 7 **Brakes** 16.5" x 7" HXS. ***(Optional Air Disc Brakes)***
- 8 **Brake Chambers** Service chambers on dolly.
Spring brake chambers at rear.
- 9 **Slack Adjusters** 5.5" automatic slack adjusters.
- 10 **Lube Type** Semi-fluid grease HXL5.
- 11 **ABS System** 2S/1M at dolly and 2S/1M at rear.
- 12 **Roll Stability** None-optional.
- 13 **Lift Axles** None-optional.
- 14 **Hubodometer** None-optional.
- 15 **Rear End Protection Device** Aluminum extruded design.
- 16 **Rear Underride Device** None required when wheels back exemption applies.

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 to drawbar. |
| 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'. |