



1430 Highway 87 East
Billings, MT 59101



SPECIFICATIONS

MAC LTT Mfg. Aluminum Hot Oil Pull Trailer

A General

1	Trailer Type	Aluminum elliptical hot oil pull trailer.
2	Overall Length	Engineering to design based on conf
3	Specification	DOT 173.247
4	Max. Product Density	8.5 lbs./ U.S. gallon
5	Max. Loading Temp.	375° Fahrenheit max operating temperature
6	Product(s)	Hot Oil Products
7	Warranty	Three year limited warranty.

B Barrel

1	Compartment(s)	(1) 5800 gallon
2	Capacity	5800 gallons +3% outage. (6,000 gallons shell full) Various capacities available.
3	Baffle(s)	(4) .250" 5454 0T flanged and dished aluminum baffles.
4	Shell	5454-H32 0.250" bottom; 0.250" top and sides mill finish aluminum.
5	End Heads	.250" 5454-0 aluminum flanged & dished heads, mill finish.
6	Dome Cover(s)	(1) Solimar 20" Model 39 (single latch) series manhole in each compartment. Modify handle on lid to be similar to large wing nut for ease of operation.
7	Overturn Protection	Crows nest centered on shell to house lids and vent box with insulated floor. Slope crownest floor to drain.
8	External Rings	(4) External Rings
9	Insulation	6" Microlite w/thermo breaks for all shell appurtenances.
10	Outer Jacket	.032" aluminum jacketing; .125" dished end heads
11	Ramp Guards	.125" aluminum, 30" x 143", no lip on bottom. Center on crowsnest. Install non-skid tape on ramp gaurds.

C Valving and Discharge Piping

1	Sump(s)	4" aluminum drain pocket at front head.
2	Discharge Valve(s)	(1) Flush valve w/3" male quick coupler and cap angled to curbside.
3	Emergency Valve Operator	N/A.
4	Emergency Valve Closure	N/A.
5	Piping	N/A.
6	Venting	MAC LTT full flow type box on top in crows nest with hinged lid for top access to vent box (reference job 3894). Terminate vent box drain 1" above catwalk drain. DO NOT install screen on vent pipe at bottom of tank.
7	Pump/Suction Line	None - optional

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8 Sample Valve (1) 3/4" Valve on discharge valve.

F Trim

- 1 Document Holder Mounted near front of trailer.
- 2 Capacity/Level Indicators None-optional.
- 3 Placards Slide-in placards on each side of trailer (off shell).
- 4 Temperature Gauge(s) 0-500° Fahrenheit gauge mounted curbside front head.
- 5 Splash Deflector Chinese Hat type at bottom under Fill Hole
- 6 Cleanouts **(4) 3" cleanouts with recessed covers. (1) in each segment not accessible from manhole.**
- 7 Shovel Holder None-optional.
- 8 Marker Rod None-optional.
- 9 Fire Extinguisher None-optional.
- 10 Chain Hanger None-optional.
- 11 Chock Blocks None-optional.

G Cabinet(s) & Components

- 1 Cabinets/Tool Box None-optional.

H Hose Carrier(s)

- 1 Hose Carrier(s) None-optional.
- 2 Hose Carriers Locations None-optional.

I Ladder/Platform/Walkway

- 1 Ladder Bolt-on aluminum at front with non-slip steps and 3 rungs on top step.
Note: Terminate bottom of ladder above internal valve on front head.
- 2 Platform(s) **1" grab rail on each side of walkway from ladder to crow's nest.**
- 3 Top Walkway .125" smooth aluminum with non-skid tape, full length.

J Fenders

- 1 Fenders-Front 25" ribbed aluminum, full tandem, double radius, 96" wide, mounted to the dolly.
- 2 Fenders-Rear 25" ribbed aluminum, full tandem, double radius, 96" wide.
- 3 Mudflaps MAC LTT mudflaps on front and rear fenders.

L Front Dolly and Drawbar

- 1 Turntable Double row ball bearing design. **Option: Lincoln 6-port grease manifold on turntable.**
- 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.

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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	Manual push/pull style (3-port) air-ride dump valve on front suspension group. Locate under frontmost crossmember of turntable dolly, facing forward.
7 Brakes/Brake Chambers	16.5" x 7" HXS. (Optional Air Disc Brakes) Service brake chambers at front. Spring brake chambers at rear.
8 Slack Adjusters	5.5" automatic slack adjusters.
9 Seals	Oil seals and hubcaps.
10 ABS System	Wabco 2S/1M at dolly and 2S/1M at rear.
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.

O Tires/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.

P Air and Electrical

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 license plate light at rear.
3 Shell Mounted Clearance	None-optional.
4 Backup Light(s)	None-optional.
5 Backup Alarm	None-optional.
6 Work Light(s)	None-optional.
7 Extra Light(s)	None-optional.

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Q Paint/Finish

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|---|--------------------------|---|
| 1 | Paint | Steel parts sand blasted, primed and painted. |
| 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 | Calibration | Theoretical calibration with charts in 1/4" increments. |
| 6 | Inspections | Inspections and labels in accordance with DOT requirements. |
| 7 | Tests | Standard PIKV. |
| 8 | Refinery Exhibits | None-optional. |