



**Polar Tank Trailer**

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<http://www.polartank.com>

**To:** PETROLEUM SYSTEMS, INC. **Year:** 2002  
9838 N GRANVILLE RD **Unit#:** 1A4  
MEQUON, WI, 53097  
**Attn:** Justin Day **Contact:**  
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**Product Hauled:** Gas/Diesel **Serial No:**

**Barrel Description**

MODEL	ATB6 9500-4A6, Aluminum, Elliptical, Tapered Bottom, Baffled, DOT 406 Trailer
Code	DOT 406 -AL.
Capacity	9500 gallons (up to +3% tolerance, 60 gallons minimum)
Compartments	Four (3500//2000//1200//2800)
Shape	Elliptical, tapered bottom, baffled.
Shell Material	Aluminum, .204" bottom and 176" sides/top. Mill finish.
Head and Baffle Material	Dished and flanged, .250 and .190 before forming. Inserted, fillet welded into shell. Baffle drains at 3 and 9 o'clock.
Operating Pressure	3.3 PSI
Design Temperature	125 Degrees F. maximum
Overall Length	44'5"
Product	Petroleum
Product Weight	7.2#

**Other Barrel Information**

Weld finish	W-0 inside
* Material Finish	Painted white
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**Construction**

Frame	Front to rear aluminum framing. Aluminum outriggers and crossmembers at running gear, supports and fifth wheel. Standard width, Outriggers and pads at front and rear outrigger at landing gear, outriggers as needed to mount accessories.
* Dam Drains	Drain from rear of walkway down around each side of rear bulkhead.
Overturn Protection	Overturn Protection, full length structural aluminum extrusion each side on top, dams front and rear with transverse, curbside rail doubles as vapor rail.

Manhole	4	Betts PPVL816BXB, "Smart Vent," vapor recovery type 16" diameter zinc plated steel cover with 10" aluminum offset fill and Buna N gaskets. Cover assembly includes normal vent (6496AL).
Gasket	4	Buna-N gasket in cover
Gasket	4	Buna-N gasket in 10in fill
Splash deflector	4	One per compartment.
Capacity indicator		None
Static cable	4	One per compartment.
Rings		No Rings installed.

**Hose Carriers**

* Hose Carrier		One (1) 4" x 22" x 41' aluminum hose tray curbside to double as fenders with 1" plastic drain at rear.
* Carrier Location		Mounted curbside.

**Lights and Wiring**

Lights		12-volt, Truck-Lite LED, vapor proof D.O.T. lights and reflectors. Combination center marker/turn signals.
Wiring		7-way plug, mounted on lower roadside of front head. Weld on clips for air and electrical.
Rear Lights		Enclosed in stainless steel light boxes
* Rear Lights		Run wiring for ID through walkway drains. Three (3) lights per light box. Amber center turn.
* Extra Lights		Truck-Lite grommet mount LED model 60 oval stop light mounted on rear head. Note: Same Location as Reference 13545
Nose box		Standard 7 way, J560 receptacle without circuit breakers.

**Undercarriage**

Upper 5th Wheel		5/16" Heavy-duty inserted upper fifth wheel plate adjustable in 2" increments with A.A.R. style double hubbed king pin. Kingpin plate painted gray.
Paint		Fifth wheel plate painted black.
* Landing Gear		AUSTIN, "Lift-pak" round leg 2-speed, steel, sand shoes, 50,000 lb. lift capacity, roadside crank handle.
Frame		Welded aluminum construction, load bearing.
Bracing		Steel, with cross brace.
Crank location		Crank handle located on roadside
Tire carrier		None.
Suspension		Hendrickson air ride.
Hangers		Steel hangers with soft coat applied to axle and trailing arm. (Bolt-on suspensions with aluminum subframe only)
* Dump valve		Manual Dump Valve AK-68. Specify location.

		located in EVO box
* Lift Axle		Front axle
* Subframe		Aluminum subframe bolted to extruded aluminum upper frame.
Bumper		Heavy duty aluminum tube welded with overlay for full width D.O.T. bumper and underride protection.
Under-ride Protection		None (no under ride required, Wheels back exempt.)
Beam		Straight
* Track		77.5in track (Requires 44" Wide Subframe.)
Spindle		OEM Standard P spindles (parallel) same inner and outer bearing
Wheel seals		OEM Standard
* Hub & drums		Ready to Roll, Hendrickson MAXX22T air disc brake system. Includes ductile iron hub, 18/24 air chambers, 415mm rotor and dust shields.
Miscellaneous		None
* Brakes		Bendix
Anti-lock / Roll stability		OEM Standard 4S/2M with tandem axle roll stability for air-ride suspension.
* Brake chambers		SEE BRAKES for air chambers. Included with air disc brake option.
* Brake lining		SEE BRAKES for brake lining. Included with air disc brake option.
* Slack adjusters		No slack adjusters required, SEE BRAKES. Included with air disc brake option.
Valves		OEM Standard. bar interlock.
Gladhands		Gladhand, Phillips, Quick Release
Air system		To D.O.T. specifications. Two (2) steel tank systems.
* Wheels		Alcoa 22.5 x 14 aluminum disc, ultra-one with clean buff, super single wheels.
* Wheels		Dura-brite aluminum, outside wheels
* Tires		445/50R-22.5 Michelin X1-Multi Energy T, DIRECTIONAL super singles tires. GHG2 COMPLIANT.
* Front		Single contour ribbed front fender. Mounted one side of trailer, hose trough doubles as fender.
* Rear		Double contour ribbed rear fender. Mounted one side of trailer, hose trough doubles as fender.
Mud flaps		White plastic anti-sail and anti-spray type, front and rear.

**Valving and Piping**

Seal provisions		None
Sump	4	4in aluminum drain pocket
* Emergency Valve	4	EBW external air operator emergency valves with Viton seals and Victaulic ends. Operators located in 24" x 16" x 16" aluminum E.V.O. box. Just ahead of piping curbside, emergency closure located at front head curbside.

* Emergency Valve Operator	Betts Air Control kit includes master control push/pull incorporated into air distributor. One emergency trip located roadside, front of tank.  Note: Same as Reference 13545
* EVO Lines	Air tubing.
* EVO Location	Mounted in separate EVO cabinet.
Pipe	4" aluminum lines terminating with flanges at center curbside. Aluminum locator brackets. Cast victaulic couplings for all piping. Set pipes back 3/4" for sight glasses.
Discharge location	Curbside of trailer.
Outlet valve	Dixon 5204SFI
Adaptor	API x 4" mole camlock.
<b>Interlock</b>	
* Interlock bar	Aluminum safety bar with lock pin; over centralized discharge and vapor outlets. Activates (1) brake interlock valve and vapor outlets. mount for customer to install 5204 sfi API valves
Interlock valve	Installed on bar.
<b>Venting and cleanouts</b>	
Pressure/ Vacuum	(4) 16" manholes with 10" pressure venting and (1) normal vent in each 10" fill cover assembly.
Cleanouts	None
Caps	None, No caps installed.
<b>Walkway and Ladder</b>	
Top center	Non-skid paint between the overturn rails.
Ladder	Located at front. Two grab handles at the top.  Aluminum bolt on.
* Ladder Location	Located at front.
<b>Cabinet</b>	
* Cabinet	One (1) 48" x 30"H x 24"D two door aluminum cabinet forward of tandem curbside.  One (1) 36" x 24" x 24" two door roadside.
<b>Overfill system</b>	
Overfill system	Dixon flow tech 2-wire upper probes only.
<b>Vapor Recovery</b>	
Provisions	3in pipe stubs in curbside overturn rail, next to each manhole.
Vent	Dixon VR6030SQ vents.
* Line	4" vapor line through barrel near discharge area with shear section with one vapor outlet 15 <sup>th</sup> fore and after of discharge with vapor outlet with poppet. Includes 3686-ALV vent in line near one cap.
<b>Miscellaneous</b>	

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Decals	Standard warning and safety package. Decals in English.
Conspicuity Tape	Discontinuous 3M Tape per N.H.T.S.A. requirements.
Customer Logo	None
Document holder	Betts PS-1 near landing gear frame, roadside.
Calibration	Computer generated theoretical calibration chart, 1/4in increments. Based on innage.
* Placards	Four Stainless steel slide-in, 80SST, on stainless steel brackets, one mounted each side of trailer. Use aluminum brackets ILO stainless steel.
* Paint	Undercarriage
Fire Extinguisher	None
Warranty	
Tests	Standard testing.
Drawings	None.