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MAC LTT Model:

## **SPECIFICATIONS**

ATE-950-4A-2-406

9,500 Gallon DOT406 Double Taper 3000//1500//2000//3000 Tandem Axle

	SALES ORDER NUMBER:	TBD	
A Ge	A General		
1	Trailer Type	Aluminum	
2	Code	DOT-406	
3	Overall Length in Feet	45	
4	Shape	Double Taper Elliptical with Slope to Center	
5	Operating Pressure	3.3 PSI with 5 PSI Test Pressure	
6	Max. Product Density	7.5 lbs./ U.S. Gallon	
7	Max. Loading Temp.	150⁰ F max. Operating Temperature	
8	Product(s)	Refined Fuels, Gasoline, Diesel, and Etc.	
9	Warranty	Standard Three (3) Year Limited Warranty	
10	Fifth Wheel Height	Standard 49"	
11	Additional Regulation	None-Optional	
12	Wheelbase	Engineering to Design to Optimize Payload	
13	Road Design Application	Designed for on-road use only	
B Bar	rrel		
1	Compartment(s)	Four (4) compartments with double bulkhead between compartments #3 & #4	
		3000//1500/2000//3000	
2	Capacity	9,200 Gallons +3% Overage in Each Compartment with 60 Gallon Minimum Overage.	
3	Baffles	0.25" Load Bearing & 0.19" Non-Load Bearing 5454 0T Aluminum with large center hole, 3" holes at 9, 12, & 3 o'clock positions and Bottom Drain Tunnel	
4	Shell	Two Section Aluminum 5454-H32 Barrel	
		0.205" Bottom, 0.179" Top and Sides	
4a	Shell Finish	Mechanical Buffed Sides with Enhanced Finished Top and Bottom	
5	End Heads	0.249" Nominal 5454 0 Temper AL Flanged & Dished Heads	
5a	Head Finish	Polished Finish (Standard)	
6	Bulkheads	Double 0.19" or Single 0.25" Bulkheads Nominal 5454 AL Flanged & Dished Heads-Mill Finish	
7	Manway(s)	One (1) 16" Diameter with 10" offset fill manhole per compartment.	
8	Weld Finish	W-0 Inside and Outside - Free of Weld Spatter and Weld Smoke	
11	Insulation	None-Optional	
12	Jacketing	None-Optional	
13	Underlayment	N/A	
14	Thermometer	None-Optional	
C Str	ucture		
1	Reinforcing Rings	None - Smooth Exterior with Internal Baffles	
2	Frame	Extruded Aluminum Full Length Frame Design	
3	Barrel Supports	Aluminum Outriggers and Crossmembers at Load Bearing Areas	
4	Overturn Protection	DOT-406 Aluminum "V" Extrusion on Top Both Curbside and Roadside. Curbside Rail Doubles for Vapor. Dam Plates at Each End with 1/2" Coupler and Plug	
5	Overturn Drain(s)	3" Walkway drain through tank at Rear	

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D Ru	nning Gear	
1	Suspension	Hendrickson Intraxx AANT23K, 23,000 lb.
1a	Axle Spacing (inches)	49"
1b	ZMD Ride Bags	None-Optional
2	Axles	71 1/2" Track with 5.75" diameter; HP Spindles with Same Inner and Outer Bearings.
3		
_	Number of Axles	Two (2)
4	Lift Axle(s)	None-Optional
4a	Ride Height Control	Standard Hendrickson Height Control Valve
5	Hub(s)	Dura-Light 10 Stud Hub Piloted, 11 1/4" B.H.C.
6	Drum(s)	Cast 16 1/2" x 7", 10-Stud Outboard Mount Drums
7	Dump Valve	Push/Pull Valve with Auto Reset mounted in Control Cabinet
8	Brakes/Brake Chambers	23,000# Rating with S-Cam 16 1/2" x 7", 2.5" stroke, 3030 Chambers, and Non-Asbestos Linings
9	Dust Shields	None-Optional
10	Slack Adjusters	Automatic
11	Warranty	Hendrickson Extended Life System "HXL5" with Federal Mogul Hub Seals
12	Gladhands	Phillips or Equivalent
12		
15	ABS	Wabco 4S/2M System Wired to Blue Wire with Rear Malfunction Warning Light
14	Roll Stability System	ABS with Roll Stability System
14a	a Diagnostic Cable	None-Optional
15	Air System	Aluminum Air Tanks
16	Tank Drain/Dryer	Petcock Valve at bottom of each Tank
17	Suspension Frame	Aluminum
18	Bumper	Aluminum Extruded
19	Bumper Overlay	Full width Aluminum Buffed Cosmetic Bumper Overlay.
20	Underride Protection	None when DOT 12" Wheels Back Exemption Applies
21	Rear Closeout	Rear Tank Frame Closeout Panel
	es/Wheels	
		Assuride Assurities with Extre Deliah
1	Wheels	Accuride Accu-Lite with Extra Polish
2	Tires	Goodyear Marathon RSS 11R22.5 16 Ply
3	Number of Tires	Eight (8)
4	Tire Inflation System	None-Optional
5	Hubodometer	None-Optional
-		None-Optional
6 F Fei	Load Gauge nders	
-		Deschiele Alexandrea Constant Franken Lines Transma Outbaile Deschlar an Franken
1	Fenders-Front	Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender
1a	Closure Plate	None-Optional
2	Fenders-Rear	Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender.
3	Mudflaps	MAC LTT Mudflaps on Rear of Fenders and Front Curbside of Rear Tires
3a	Anti-Sail	Standard MAC LTT Fabricated Anti-Sails installed where necessary
4	Spray Guard	None-Optional
G Lai	nding Gear	
1	Landing Gear	Jost AX150 Alumilight Landing Gear
2	Crank Location	Roadside
H Up	per Fifth Wheel	
1	King Pin Plate	5/16" Upper Plate with Hubbed Kingpin.
	-	
2	Pick-Up-Plate	Aluminum Pick-Up-Plate Installed if neccesary
	dder/Platform/Walkway	
	-	Front Bolt-On Aluminum at Center of Head. Rails to have Rolled Radius at Top of Ladder and Top Deck plate Step
1	Ladder(s)	From Boil-Off Aluminum at Center of Head. Rails to have Rolled Radius at rop of Ladder and rop Deck plate Step
0		
2	Safety Hand Rails	None-Optional
3	Top Walkway	Non-Skid Tape Between Top Vapor Rails
4	Fall Protection	None-Optional
J Ca	binet(s) & Components	
1	Tool Cabinet(s)	One (1) Aluminum Cabinet, 48" Wide x 30" High x 27" Deep with Two Aluminum Side Hinged Doors. Mounted curbside
		forward of suspension.
		*Install MAC preferred Shelving and Partitions for Petroleum Units
2	EVO Cabinet(s)	One (1) 30" High Single Door Box with Overfill System and Emergency Valve Controls mounted at Front flush with top of
		Curbside Equipment Cabinet.

Model Number: ATE-950-4A-2-406 Unit Number(s): Company Name: Quote Number: Hose Carrier(s) Hose Carrier(s) One (1) 3.5" x 22"W x Full Length Aluminum Extruded Tray functions as Curbside fenders. Includes drain at rear and tarp straps to retain hoses. 2 Trough Cover(s) None-Optional 16 Foot Gauge Stick and Holder on Curbside at Rear with Tension Pin at Front 3 Gauge Stick Venting & Vapor Recovery System Relief Vent(s) One (1) 10" Pressure/Vacuum Relief Valve with Set Pressure at 3.63 PSI Installed in Each Manhole Cover. 1 One (1) BETTS #3686-AL Vent in the Vapor Line Under the Belly of the Tank. 3 **Discharge Vent** Inward opening Sequential Vent with Viton seals in each manhole cover. 4 Vents connected to nipples in curbside flashing rail with 31/2" I.D. hose. Internal Vapor Pipe Through Tank with connections **Recovery Piping** at the following locations: (1) 4" outlet Curbside 15" to rear of last discharge valves (1) 4" outlet Curbside 15" forward of discharge valves (1) 4" outlet to extreme rear facing Curbside sloped down 15 degree 5 Adapter & Cap Vapor outlet(s) equipped with 4" flanged poppeted vapor adapter & 4" orange cap. None-Optional 6 Vapor Drain Valving/Piping/Hose One (1) 4" Aluminum Drain Pocket at Bottom each compartment 1 Outlet(s) 2 Splash Deflector Bolt-on Splash Deflector above each Emergency Valve 3 Extra Drain Troughs None-Optional 4 **Equipment Warranty** 5 Year Component Warranty with either Betts/Dixon-Bayco SuperTanker or Civacon System V 5 Discharge Valve(s) Elbow or Straight Air Operated Emergency Valves with Flanged Outlet and AL Body 6 **Dicharge Controls** Installed in EVO Cabinet with Air Tank Pressure Gauge 7 **Emergency Valve Closure** Emergency Closure located at Front Head Roadside 8 Piping 4" Sch 10 Aluminum discharge piping with formed long radius sweeps from Emergency Valves to Curbside of tank, per API standards. q Manifold None-Optional 10 Front Pump-off Line None-Optional API Valves with Aluminum Handle and Viton seals per compartment. 11 Outlet Valve(s) Sight Bubble on API Valves 12 Sight Glass 4" Aluminum Male Gravity Drop Adapter with 4" Aluminum Dust Cap 13 Adapter(s)/Cap(s) None-Optional 14 Secondary Discharge(s) Security Seal Provisions None-Optional 15 8-sided commodity tags on bracket over each API valve with Compartment Capacity. 16 **Product Indicators** Flanged Gaskets Cork-N-Buna Gaskets on all flanged connections. 17 18 **Grooved Gaskets** Baylast or Equivalent Gaskets used on all Grooved Connections One (1) Aluminum Pipe Style Interlock Bar Installed Over Bottom Loading Adapters and Extended to Vapor Outlet(s) at 21 Brake Interlock Valve(s) Discharge with (1) Brake Interlock Valve. One (1) Brake Interlock Valve Mounted on Each Vapor Outlet not within API Bar. Pump 0 None-Optional 1 Pump 2 Pump Piping None-Optional

3 Hydraulic Lines

4 Flow Control

5 Platform None-Optional

None-Optional None-Optional

Model Number: ATE-950-4A-2-406 Unit Number(s): Quote Number: Company Name: **Capacity Controls Overfill System** Overfill System with a Top Probe in each manhole 1 Dual Optic and Thermistor sockets with vinyl caps in Curbside Control Cabinet 2 Sockets 3 **Top Sensor Settings** Top sensors set to provide a 60 gallon minimum vapor space in each compartment. None-Optional **Bottom Retain** 4 **Overfill Operation** Pressure switch to allow permit when all vapor vents are open 5 Installed in Dual Socket Assembly 6 **Identification Module** Two (2) Brass Studs on 1-3/16" centers installed at Landing Gear on Curbside Static Studs 7 Ground Wire Installed in Each Socket Assembly 8 Ground Bolt/Ball

Q V	Wiring		
	1	Nose Box	Nose Box with J560 7-Way Plug and Circuit Breakers Located Low Roadside at Front
2	2	Light System	Truck-Lite LED Junction Box Lighting System with Front Markers, Combination Side Center Turn/Marker Lights, and Three (3) Upper Clearance/Stop
2	2a	End Dam Turn Lights	None-Optional
:	3	Lamp Mounting	Grommet Mounted
2	4	Light Boxes	Two (2) Aluminum Light Boxes on the Rear of the Trailer with Two (2) Red Stop/Marker Lamps and One (1) Amber Turn with Rear Side Marker Lights.
į	5	Wide-Turn Light(s)	None-Optional
6	6	Work Light(s)	Two (2) Grote LED work lamp, Mounted at Curbside Discharge Area with switch in Cabinet. MAC Extreme LED Lighting Assembly to Illuminate Discharge Valves
6	6a	Work Light(s) Operator	All work lights operated by switch in EVO Cabinet
7	7	Cabinet Light(s)	Install One (1) LED Strip Light in each Cabinet
8	8	Backup Lights	None-Optional
ę	9	Backup Alarm	None-Optional
	10	Extra Light(s)	None-Optional

11 Closeout Light Panels None-Optional

R	T.A	.L.K- Total Area Lighting Kit	
	1	T.A.L.K- SAFETY ARMS	No
	2	T.A.L.K- INTERLOCK BAR	Yes
	3	T.A.L.K- LIGHTED HOSE GUARD	No
	4	T.A.L.K- LIGHTED REAR HEAD	No
	5	T.A.L.K- LIGHTED LADDER	No
	6	T.A.L.K- Complete System	No
S	Pai	nt/Decals	
	1	Corrosion Resistance	Electrolysis barrier between all dissimilar metals.
	2	Conspicuity	DOT 3M Tape per N.H.T.S.A. Requirements.
	3	Decals	Standard Safety/DOT-406 Warning and Safety Decals
	4	Customer Decals	None-Optional
	5	Emergency Drain Decals	Four (4) 3" diameter round DOT decals, (1) curbside and (1) roadside on horizontal centerline on each end head.
	6	MAC Logo	Standard MAC Logo Placards on Vapor Rails and Rear Bumper
	7	Pin Striping	Black or Selected from Color Options

ΤО	ther/Options	
1	Document Holder	Document Holder installed on Roadside, near landing gear frame.
2	Static Cable	1/8" Stainless Steel Static Cables, Double Looped, One (1) Each Compartment.
3	Placards	Four (4) Aluminum Slide-in Placard Holders. One (1) per side
4	Safety Cone/Bucket Holder	Dual Safety Cone and Bucket Holder mounted near Discharge Area
5	Fire Extinguisher	None-Optional
12	2 Calibration	Theoretical Calibration Chart - 1/4" Increments
14	4 Bicycle Guard	None-Optional
17	7 Standard Inspections	Initial Annual DOT Inspection, EPA Method 27, External Visual, Internal Visual, Pressure, and Leakage Tests.
18	8 Additional Inspections	None-Optional
20	0 Backup Camera	None-Optional
2	1 Approvals	3D Model and Design Review available upon Customer Request