



Pricing Administration Use Only				
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Quote Number	Quote Revision	Shop Order Number	Serial Number(s)	Date

Customer

Werts Welding & Tank Service for Bronco Stock

Base Model Part Number

37268.1

Specified Model Description

AWB6 9500-5D6 ST DT90,2500//1500//1000//2000//2500,3.3 PSI, 180 F, Standard Duty Petroleum Trailer (T-rings not allowed) 44'6"

A. Vessel

1) Design

: AWB6 9500-5 ST DT90, Aluminum, Elliptical, Tapered, Baffled, D.O.T. 406 trailer, Standard Duty Petroleum Trailer.

Code: DOT 406

Capacity: 9500 gallons plus 3% outage. (Capacities are nominal unless stated otherwise.) 60 gallons is the minimum outage for any size compartment.

Compartments: Five Compartments, front to rear. (2500//1500//1000//2000//2500)

Shape: Elliptical, Tapered, DT 90

Shell Material: Aluminum - 5454 alloy, All size / gauges are nominal. Top Ends: 0.180, Top Center: 0.192, Sides: 0.180, Bottom: 0.200

Head and Baffle Material: All double bulkheads between compartments. Aluminum
0.201 stiffened and shoed heads / baffles over kingpin, front and rear heads.
0.201stiffened and shoed heads and baffles over rungear.
0.201 unstiffened compartment heads and 0.201 unstiffened surge heads between compartments.

Operating Pressure: Tested at 5 PSI, rated 3.3 PSIG

Design Temperature: -20 Degrees F. to 180 Degrees F.

Overall Length: 44'6"

Product: Gas, Diesel Fuel, or similar (Customer Responsibility)

B. Construction

1) Frame

: * Front to rear aluminum framing. 44" Wide. Outriggers and pads at front and rear, outrigger at landing gear, outriggers as needed to mount accessories.

2) Dam

Dam Drains: Drains through ladder rails.

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.

3) Manhole

: 5 * Betts PPVL816AX, 16" aluminum cover with 10" offset fill. Includes vapor and sensor holes. Includes 6496ALB, pressure / vacuum vent mounted in 10" relief valve cover.

Gasket: 5 Buna-N gasket in cover

4) Fill

Gasket: 5 Buna-N gasket in 10" fill



5) Splash deflector

: 5 Splash shield-vortex breaker over each emergency valve.

6) Capacity indicator

: None

7) Static cable

: 5 1/8" stainless steel ground wire from manhole to bottom of tank.

8) Rings

: No Rings installed.

C. Other Barrel Information

1) Weld finish

: W-0 inside

2) Material Finish

Shell Material Finish: Buffed/Polished finish on shell sides.

Front Head Finish: Buffed/Polished finish on front head.

Rear Head Finish: Buffed/Polished finish on rear head.

D. Venting and cleanouts

1) Venting

: DOT-406 venting in manhole.

Pressure: None

Vacuum: None

2) Cleanouts

: None

Caps: None, No caps installed.

E. Vapor Recovery

1) Provisions

: 3" black nylon vapor recovery nipples connected to flashing rail. A hose connects the vapor recovery vent to the nylon vapor recovery nipple.

2) Vent

: * 3.5" Bayco #VR6030SQ sequential vents, air operated for 16" manhole. Plumbed to Emergency valve operator. Threaded.

3) Line

: * 4" aluminum pipe, through barrel with shear section, with one outlet to curbside over rear of rear fender, one outlet curbside 15" to rear and 15" to front of discharge valve area, 4" outlet.

4) Adaptor

: 3 * Bayco 4" x 4", vapor recovery adaptor, without poppet and interlock mount. Threaded. #VR4100NP.

5) Cap

: 3 * Bayco 4" orange nylon vapor cap, with chain. #VR4050PL.

F. Valving and Piping

1) Seal provisions

: None

2) Sump

: 5 4" aluminum drain pocket

3) Emergency Valve

: 5 * Betts EV46911ALTS 4" x 4" 90 degree, internal, hi flow, aluminum, air operated, Teflon seals and Victaulic outlet, attached to sump. Internal Air Cylinder.

4) Emergency Valve Operator

: * Betts Air Control kit includes master control push/pull incorporated into air distributor. One emergency trip located roadside, front of tank.

Location: Do not engage master valve with cabinet door.

EVO Lines: Air tubing

EVO Location: Mounted in separate EVO cabinet.

5) Pipe

: 4" aluminum schedule 10 pipe, with large radius elbows, ending curbside center at aluminum locator bracket with flanged outlet.

: * 3" aluminum schedule 10, pump off line from front of manifold with wet-r-Dri valve, immediately directed forward ending with adapter and cap.

Location: Wet-r-Dri valve to be installed at end of POL over the front fender. Line to run through fender supports.

: * 3" swing hose to be permanently attached to beginning of pump off line with the hose to reach to the last discharge line. Hose at discharge to terminate with a 3" 90 degree female camlock and to have at least (2) supports and attach to a Part A adapter, located between the last discharge line and vapor line.

Location: Hose should connect immediately after 45 degree bend down to keep the hard pipe portion as short as possible.

Flanged Gaskets: All gaskets in discharge piping to be Viton.

Couplings: Aluminum coupler on groove-groove connections with Baylast gaskets.

6) Outlet valve

: 5 * Dixon/Bayco openable API adaptor with aluminum handle and no sight bubble. #5204NG.

7) Sight glass

: 5 * Jikoh sight glass, mounted prior to outlet. #JDG-105. Compatible with ethanol.

Location:

8) Adaptor

: 3 * Dixon Bayco 4" aluminum male gravity drop adaptor(s) with cap(s) and chain(s), Baylast seal. #4540.

Location: on compartments #1, #3, #5

: 2 * Dixon Bayco 4" x 3" aluminum, dual cam style, male gravity drop adaptor(s) with cap(s) and chain(s), Baylast seal. #4530.

Location: on compartments #2, #4.



G. Walkway and Ladder

1) Walkway

Top center: Non-skid tape, full length of barrel between overturn rails.

2) Ladder

: Aluminum tubular walk through, with serrated rungs and large platform step, and integral grab handles.
Ladder Location: Mounted at rear head, centered. With step below bumper.

H. Cabinet

1) Cabinet

: * Aluminum cabinet 30" high X 20" wide X 9" deep, one door cabinet.
Location: mounted on leading edge of the 48" cabinet.
To contain EVO and overfill equipment.
: * Aluminum cabinet 30" high X 48" wide X 28" deep, two door cabinet without center post.
Location: Mounted at curbside just forward of running gear.

I. Hose Carriers

1) Hose Carrier

: 5 * Aluminum tube 7" diameter x 21' long
Location: (2) mounted curbside rear, doors at front.
(2) mounted streetside rear, doors at front.
Each pair to be mounted side by side above fenders.
(1) 7 x 12' aluminum tube mounted at curbside front, as low as possible, door at rear.
Carrier Location: Mounted curbside

2) Gauge Stick Tube

: * Aluminum gauge stick tube 2" diameter x 16' long.
Location: mounted between hose tubes on curbside rear with pin at front and cap at rear.

J. Lights and Wiring

1) Lights

: * 12-volt, Truck-Lite grommet mount LED lamp system complying to FMVSS.
Combination center marker / turn signals, one each side.

2) Wiring

: 7-way wiring, with junction boxes.
Location: Junction boxes to be set up inside frame/crossmember area so they are not exposed to road environment/spray.

3) Rear Lights

: Enclosed in Aluminum light boxes, one each side of tank.
: * 1 additional LED stop / turn / tail light. Total of 3 lights in each box.
Location: from inside out lights should be Red, Amber, Red.

4) Stop Light

: Truck-Lite flange mount, 60 series, 26 diode LED, oval stop light mounted on rear head.



5) Extra Lights

- : * Betts 820317 LED dome light(s) with clear lens and switch.
- Location: Mounted over loading heads.
- : * Betts 325503 swivel LED floodlight(s) with 20 amp toggle switch.
- Location: mounted forward of discharge piping in landing leg area, to illuminate work area.

6) Nose box

- : Standard 7 way, J560 receptacle without circuit breakers.
- Location: Nose box mounted lower roadside of front head.

K. Overfill system

1) Overfill system

- : * Dixon Bayco, Flo-tech FT2805 Checkmate two wire system, one top optic sensor (per compartment) with one optic and one thermistor socket.
- Location: Monitor and dual sockets mounted in overfill enclosure cabinet.

L. Interlock

1) Interlock bar

- : Aluminum safety bar with lock pin; over centralized discharge and vapor outlets. Activates (1) brake interlock valve

2) Interlock valve

- : * Brake interlock Bayco 5000AIHD valve mounted at outlet.
- Location: at rearmost vapor outlet

M. Chassis

1) Upper 5th Wheel

- : 5/16" Heavy duty with A.A.R. style double hubbed kingpin.

2) Skid Plate

- : Aluminum skid plate.

3) Landing Gear

- : SAF Holland Atlas 55, 2-speed, load bearing, sealed gear box, 55,000 lbs. rated lift capacity with 10"x10" swivel type sand shoes. Black Armour coating. No Lube, 5 year Warranty.
- Location: Gear to be mounted as far towards the rear as engineering will allow.
- Bracing: Stainless steel, with cross brace.
- Crank location: Crank handle located on roadside
- Tire carrier: None.

4) Suspension

- : Hendrickson Intraax AANT23K, 23000 lb., tandem axle with standard 49" axle spacing. 5.75" diameter Hendrickson integrated axles.
- Suspension Hangers: Galvanized hangers with soft coat applied to axle and trailing arm. (Bolt-on suspensions with aluminum subframe only)
- Dump valve: * Manual Dump Valve AK-68.
- Location: just behind roadside landing gear
- Subframe: * Extruded aluminum sub frame, 44 wide, with aluminum fender supports.
- Bumper: Aluminum, straight, weld-on. D.O.T. code, per FMVSS223



Bumper Overlay: * Bright mill finish aluminum bumper overlay, full width DOT compliance per FMVSS223
Location: This is the standard Heil winged bumper (not the Cali overlay).
Under-ride Protection: None (no under ride required, Wheels back exempt.)

5) Axles

Beam: Straight
Track: * 77-1/2" track (Requires 44" Wide Subframe.)
Spindle: OEM Standard P spindles (parallel) same inner and outer bearing
Wheel seals: OEM Standard
Hub & drums: * Hub-piloted, Dura-light hub with centrifuse drum. Includes Hendrickson Extended life System "HXL". 7 year warranty. This package comes with Synthetic semi-fluid grease, seals, and wheel-ends.
Miscellaneous: None

6) Brakes

: OEM Standard
Anti-lock / Roll stability: OEM Standard 4S/2M with tandem axle roll stability for air-ride suspension.
Brake chambers: OEM type 30-30 long stroke parking-emergency spring brake.
Brake lining: OEM Standard Extended service, non-asbestos
Slack adjusters: OEM automatic slack adjuster.
Valves: OEM Standard
Gladhands: Gladhand, Phillips, Quick Release
Air system: Two aluminum tank system. 2800 cu. in. each, or equivalent, meeting FMVSS 121 D.O.T. specifications

7) Wheels

: 2 * Dura-brite aluminum, outside wheels
Location: on all 8 wheels.
: Alcoa Ultra One with clean buff finish, 22.5 x 8.25 aluminum.

8) Tires

: * 11R-22.5 Marathon LHT 14-ply radials. GHG2 COMPLIANT.

9) Fenders

Front: * Aluminum, single contour, ribbed, front fender, each side.
Location: Reference 50546 for fender length. Minimum 130" from front head seam to rear of front fender.
: * Aluminum straight fender closeout panel, front fender.
Rear: * Aluminum, double contour, ribbed, rear fender, each side.

10) Mud flaps

: White with Heil logo. Front and rear, HEIL, anti-sail, anti-spray flaps.

N. Miscellaneous

1) Decals

: Standard warning and safety package, Complying to FMVSS. HM-183, Vapor and Chevron exhibit "C" Form. Decals in English. Heil nameplate on front end dam and rear bumper.

2) Conspicuity Tape



- : Discontinuous tape
- 3) Customer Logo**
- : None
- 4) Document holder**
- : * Betts PS-1 document holder. Specify Location.
- Location: mounted on streetside frame near landing leg.
- 5) Calibration**
- : Computer generated theoretical calibration chart, 1/2" increments. Based on innage.
- 6) Placards**
- : * Four Aluminum slide-in on brackets, one mounted each side of trailer.
- Location: The curbside placard should be mounted to the front door of the 48" cabinet.
- 7) Paint**
- : None. No paint or primer installed on trailer.
- 8) Product Indicator**
- : 5 * Trucknology, 8-sided product indicator with mounting bracket per compartment
- Location: Decals to include Empty, Prem Unlead, Unlead Plus, Reg Unlead, Diesel, Avgas, Jet Fuel, Ethanol.
- 9) Fire Extinguisher**
- : None
- 10) Cone holder**
- : * Aluminum, combination cone and bucket holder with straps to secure both cones and bucket.
- Location: mounted between c/s front fender and piping.
- 11) Warranty**
- : Heil Trailer Silver Warranty Package.
- 12) Tests**
- : Vapor tested and certified to EPA Method 27-CA Air Resources Board standards and manholes sealed.
- : * Include EPA method 27 test paperwork for various states.
- Location: Colorado Specific Vapor Test Form, Phillips 66, Magellan, and Holly Frontier Vapor Test.
Send two copies of all test documents to the dealer.