



TRANSTECH ENERGY






Five (5) 60,000-Gallon Storage Vessels Sikeston, MO

VESSEL SPECIFICATIONS

Manufacturer	Year	Gallon (wc)	PSI	National Board Number / Serial Number
Mississippi Tank Company	2013	60,000	250	14139 / LDB95A01
Mississippi Tank Company	2013	60,000	250	Available / LDB96A01
Mississippi Tank Company	2013	60,000	250	Available / LDB97A01
Mississippi Tank Company	2013	60,000	250	14097 / LDB39A01
Mississippi Tank Company	2013	60,000	250	14102 / LDB40A01

The vessels listed are sister ASME-certified tanks and were manufactured by Mississippi Tank Company. They have a National Board number with U-1A and U-4A data sheets. Shell sections and concave, hemispherical heads are made of SA-612 steel. The vessels are 90 ft. 10-3/8 in. in length, 10 ft. 10 in. in diameter (ID), have coupling nozzles, and have top, end-mounted, 16-inch manways.



		14139	
CERTIFIED BY:			
MISSISSIPPI TANK COMPANY			
HATTESBURG, MISSISSIPPI			
	MAHR 14139	PSI 250	AT 125 °F
	MAHR 14139	PSI 250	AT 125 °F
	SN LDB95A01	YEAR 2013	
	ABOVE GROUND		
I.D. 100.0	W.C. 60000	GAL.	
O.L. 100.0	I.D. 100.0	O.D. 106.6	IN.
SH. THK. 1.125	I.D. THK. 1.125	H.D. THK. 1.125	IN.
SUB. AREA 5120	SQ. FT.		
THIS CONTAINER SHALL NOT CONTAIN A PRODUCT THAT HAS A VAPOR PRESS. IN EXCESS OF 215 PSIA. AT 100 °F			

[illegible]

ANALYSIS OF THE EFFECTS OF THE 1997-1998 EL NIÑO ON THE
WORLDWIDE DISTRIBUTION OF THE RED TIDE ALGAE *GYrodinium aureolum*

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SCHEDULE OF OPENINGS

[illegible]

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by MISSISSIPPI TANK COMPANY 3000 W 7TH STREET HATTIESBURG, MS 39401
(Name and address of Manufacturer)

2. Manufactured for TRANS TECH ENERGY P.O. BOX 8197 ROCKY MOUNT, NC 27804
(Name and address of Purchaser)

3. Location of installation UNKNOWN

4. Type HORIZ TANK LDB95A01 N/A LDB95A01-1-0 14139 2013
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2010
to 2011 2714 N/A 80'-0" SM/SM
(Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell SA612 .714" NONE 130"
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

7. Seams TYPE NO 1 * FULL 1 NONE N/A TYPE NO 1 * FULL 1 8
(Long. welded, dbl., singl., lap, butt) (R.T. (spot or full)) (Eff., %) (H.T. temp.) (Time, hr) (Girth (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)

8. Heads: (a) Material SA612 (A) (b) Material N/A
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	ENDS	.420"	NONE	N/A	N/A	N/A	N/A	65"	N/A	CONCAVE
(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used (describe other fastenings) N/A
(Material spec. number, grade, size, number)

9. MAWP 164/250 N/A at max. temp. -20/+13 N/A
(Internal) (External) (Internal) (External)

Min. design metal temp. -20/+13 at 164/250. Hydro., pneu., or comb. test pressure HYDRO 325
Proof test N/A

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
RELIEF	2	4"	(B)	N/A	(C)	3.0"	NONE	INHERENT	N/A	(D)	SHELL
LIQUID, VAPOR	4	3"	(B)	N/A	(C)	2.3125"	NONE	INHERENT	N/A	(D)	SHELL
INSPECTION	1	1.315"	(E)	SA105	N/A	.2175"	NONE	INHERENT	(F)	N/A	HEAD
LEVEL	1	2.5"	(G)	SA105	N/A	.375"	NONE	INHERENT	(F)	N/A	HEAD
COMBO	1	.75"	(H)	SA105	N/A	.35"	NONE	INHERENT	(F)	N/A	HEAD
THERMOWELL	1	.5"	(I)	SA105	N/A	.267"	NONE	INHERENT	(F)	N/A	HEAD

11. Supports: Skirt NO Lugs NONE Legs NONE Other N/A Attached N/A
(Yes or no) (Number) (Number) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A
(Name of part, item number, Manufacturer's name and identifying stamp)

60,000 WGC LPG STORAGE TANK CONTINUED ON FORM U-4

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 236
expires NOV. 07 2015

Date 9-26-13 Co. name MISSISSIPPI TANK COMPANY, MS Signed F. M. Ragsdale
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by MISSISSIPPI TANK COMPANY at HATTIESBURG, MS
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of MISSISSIPPI and employed by ONECIS INSURANCE CO.

have inspected the component described in this Manufacturer's Data Report on 9/26/13, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/26/13 Signed [Signature] Commissions AB513934 MS4563
(Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)

Certificate of Authorization: Type: U No. 236 Expires NOV. 07, 2015

Date 9-26-13 Name MISSISSIPPI TANK COMPANY Signed F. m. Bag
(Manufacturer) (Representative)

Date 9/24/13 Name [Signature] Commission NB119444 as 54865
(Authorized Inspector) (National Board (incl. Endorsement), State, Province and number.)