



TRANSTECH ENERGY

10,000-Gallon Storage Vessel Detroit, MI

VESSEL SPECIFICATIONS

Manufacturer	Year	Capacity	PSI	Serial Number/ National Board Number
Master Tank & Welding	1979	10,000	250	31235/DB-057

The vessel listed is ASME certified and was manufactured by Master Tank & Welding Inc. It has a National Board number with a U-1A data sheet. Its shell sections constructed of SA-455-1 steel. The hemispherical heads are double welded and constructed with SA 515-70 material. The vessel is 30.5-foot in length and 84 inches in diameter (ID).



FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
 (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by MASTER TANK & WELDING, INC. DALLAS, TEXAS
 2. Manufactured for Union Carbide Corp. Union, New Jersey
 3. Location of Installation unknown
 4. Type Horiz. DB-057 -- D-4655 31235 (Year Built) 1980
(Horiz. or vert. tank) (Mfg's Serial No.) (CRN) (Drawing No.) (Net Brd No.)
 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 1977 and Addenda to Summer '79 and Code Case Nos. -
(Year) (Date)
 Special Service per UG-120(d) -
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: -

6. Shell: Matl. SA-455-1 Nom. 5725 Corr. 0 in. Diam. 0. S. 8 1/4 in. Lgth. 30 ft 2 1/2 in.
(Spec. No., Grade) (Thk.) (Allow.)
 7. Seams: Long. R.T. * Efficiency * % H.T. Temp. - F Time - hr
(Welded, Dbl, Sngl, Lap, Butt) (Spot or Full)
 Girth D.B.W. R.T. Partial No. of Courses 4
(Welded, Dbl, Sngl, Lap, Butt) (Spot, Partial, or Full)
 8. Heads: (a) Material SA-515-70 (b) Material SA-515-70
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemiph. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a)	End	.375"	0	-	-	-	-	42"	-	Both
(b)	End	.375"	0	-	-	-	-	42"	-	Both

If removable, bolts used (describe other fastenings) Ext. 15
 9. Constructed for max. allowable working pressure Int. 250 psi at max. temp. 150 deg F. Min. temp. (when less than -20 F) - F. Hydrostatic, pneumatic, or combination test pressure 375 psi.
(Material, Spec. No., Gr., Size, No.)
 10. Safety Valve Outlets: Number 2 Size 2" Location Head
 11. Nozzles and Inspection Openings:

	Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Relief Valve Out and Fill	Inlet	1	1 1/4"	Cplg	SA-105	3000#	-	Wld	Shell
	L.L.G.	4	2"	Cplg	SA-105	3000#	-	Wld	Head & Shell
	L.L.G.	1	1 1/4"	Cplg	SA-105	6000#	-	Wld	Head
	L.L.G. & P.G.	1	3/4"	Cplg	SA-105	3000#	-	Wld	Head
	Spare	1	1"	Cplg	SA-105	3000#	-	Wld	Head
	L.L.G.	1	2 1/2"	Cplg	SA-105	3000#	-	Wld	Shell

12. Supports: Skirt No Lugs - Legs - Other Saddles Attached Shell & Welded
(Yes or no) (No.) (No.) (Describe) (Where and how)
 13. Remarks: In Cyl D.B.W. R.T. full Eff. 100%
In Hemis w/B.O.B. S.B.W. R.T. spot Eff. 85%
S/O 4655 10,000 W.G. Cap. Oxyfume Bulk Storage Unit
R.T. full Eff. 90%
 * #7

CERTIFICATE OF 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 Code for Pressure Vessels, Section VIII, Division 1.
 Date 1-8-80 Signed MASTER TANK & WELDING by Dewey R. Davis
(Manufacturer) (Representative)
 "U" Certificate of Authorization No. 221 expires DECEMBER 31, 1982

CERTIFICATE OF SHOP INSPECTION

Vessel made by MASTER TANK & WELDING, INC. at DALLAS, TEXAS
 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 TEXAS and employed by H.S.B.I. & I. Co. have inspected the pressure vessel described in this Manufacturers' Data Report on January 8 1980, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither the Inspector nor his 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.
 Signed [Signature] Date 1-9-80 Commissions NATL Bd 8932
(Inspector) (Net Board, State, Province and No.)