

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

B-SHOP

112

1. Manufactured and certified by Plant Maintenance Service Corporation Plant B, 3690 FITE ROAD, MEMPHIS, TENNESSEE 38127,
 (Name and address of Manufacturer)

2. Manufactured for G.E. PLASTICS, MT VERNON, IN

(Name and address of Purchaser)

3. Location of Installation G.E. PLASTICS, MT VERNON, IN

(Name and address)

4. Type: Horizontal PHENOL CONDENSER
 (Honz., vert., or sphere) (Tank separator, jkt. vessel, heat exh., etc.)

AD-614
 (Mfg's serial No.)

 (CRN)

AD-614D
 (Drawing No.)

916
 (Nat'l. Bd. No.)

1998
 (Year built)

5. ASME Code, Section VIII, Div. 1 Edition 1995, Addenda 1997
 Edition and Addenda (date)

 Code Case No.

 Special Service per UG-120(d)

Items 6 - 11 Incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of course(s): 1 (b) Overall length (ft & in.): 4-8 1/2

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	18 OD	4-8 1/2	SB168 N06600		1/4"	0"	1	Spot	85%	1	Spot	85%	---	---
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7. Heads: (a)

SB168 N06600

(b)

(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp

(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp

Location (Top, Bottom, Ends)		Thickness		Radius		Elliptical	Conical	Hemispherical	Flat	Side to Pressure		Category A	
		Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	Radius	Diameter	Convex	Concave	Type	Full, Spot, None
(a)	End	0.21"	0"	---	---	2-1	---	---	---	---	YES	S	None
(b)	---	---	---	---	---	---	---	---	---	---	---	---	---

If removable, bolts used (describe other fastening)

NONE

(Mat'l Spec. No., Grade, Size, No.)

8. Type of jacket

Jacket closure

(Describe as ogee & weld, bar, etc.)

If bar, give dimensions

If bolted, describe or sketch.

9. MAWP 50 (internal) psi at max temp 600 (internal) ° F Min design metal temp -20 ° F at 50 psi.

10. Impact test

EXEMPT PER UG-20(f), UNF-65 AND UCS-66(a)(c).
 (Indicate yes or no and the component(s) impact tested)

11. Hydro. or test press

75

Proof test

Items 12 and 13 to be completed for tube sections

12. Tubesheet

Stationary (Mat'l Spec. No.)

Dia. in (subject to press)

Nom. thk. in

Corr. Allow. in

Attachment (welded or bolted)

SB168 N06600

Floating (Mat'l Spec. No.)

25

Dia. in

1 3/4

Nom. thk. in

0.0

Corr. Allow. in

BOLTED

Attachment

13. Tubes

SB516N06600 CL-1

Mat'l Spec. No., Grade or Type

3/4

O.D. in

0.065"

Nom. thk. in or gauge

83

Number

U

Type (Straight or U)

Items 14 - 18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): 1

(b) Overall length (ft & in.): 0-11 7/16

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	18 OD	0-11 7/16	SA-106 Gr B		3/8"	0"	S	None	85%	1	Spot	85%	---	---
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15. Heads: (a)

SA516GR70

(b)

(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp

(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp

Location (Top, Bottom, Ends)		Thickness		Radius		Elliptical	Conical	Hemispherical	Flat	Side to Pressure		Category A	
		Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	Radius	Diameter	Convex	Concave	Type	Full, Spot, None
(a)	End	0.31"	0"	---	---	2-1	---	---	---	---	YES	S	None
(b)	---	---	---	---	---	---	---	---	---	---	---	---	---

If removable, bolts used (describe other fastening)

(16) 1 1/8" DIAM SA193B7 STUDS WITH (2) SA1942H NUTS
 (Mat'l Spec. No., Grade, Size, No.)

(Nat'l Board incl. endorsement, State, Province and No.)

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by MACH INTERNATIONAL 6119 FULTON HOUSTON, TEXAS 77022
(Name and address of manufacturer)
2. Manufactured for PLANT MAINTENANCE B-SHOP 3690 FITE RD. MEMPHIS, TN 38168
(Name and address of purchaser)
3. Location of installation UNKNOWN
(Name and address)
4. Type See Remarks #13 below 981102-1 N/A
(Description of vessel part (shell, two piece head, tube bundle)) (Mfg's serial No.) (CRN)
N/A N/A N/A 1998
(Nat'l. Bd. No.) (Drawing No.) (Drawing prepared by) (Year Built)
5. ASME Code, Section VIII, Div. 1 1995 1997 N/A N/A
Edition Addenda (date) Code Case No. Special Service per UG-120 (d)
6. Shell (a) No. of course(s): N/A (b) Overall length (ft. & in.): N/A

Course(s)			Material		Thickness		Long. Joint (Cat. A.)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter	Length	Spec/Grade/Type		Nom.	Corr.	Type	F, S, N	Eff.	Type	F, S, N	Eff.	Temp.	Time
	N/A	N/A	N/A		N/A	N/A	DBL	FULL	100%	N/A	N/A	N/A	N/A	N/A

7. Heads: (a) _____ (b) _____
(Mat'l Spec. No., Grade or Type) H.T. Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. Time & Temp.
- | | Location
(T, B, E) | Thickness | | Radius | | Elliptical
Ratio | Conical
Angle | Hemishperical
Radius | Flat
Diam. | Side to Pressure | | Category A | | |
|-----|-----------------------|-----------|-------|--------|-----|---------------------|------------------|-------------------------|---------------|------------------|---------|------------|---------|------|
| | | Min. | Corr. | Crown | Kn. | | | | | Convex | Concave | Type | F, S, N | Eff. |
| (a) | | | | | | | | | | | | | | |
| (b) | | | | | | | | | | | | | | |

If removable, bolts used (describe other fastening) _____
(Mat'l Spec. No., Grade, Size, No.)

8. MAWP _____ psi at max. temp _____ °F. Min. design metal temp _____ °F at _____ psi.
(internal) (external) (internal) (external)

9. Impact test _____
(Indicate yes or no and the component(s) impact tested)

10. Hydro., Pneu., or comb. test press. _____ Proof test _____

11. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Out., Drain, etc)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforce. Material	How Attached		Location Insp. Open.
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	

12. Supports: Skirt _____ Lugs _____ Legs _____ Others _____
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: 10-3/4" OD. 375W PIPE X 10-3/4" LG MADE FROM SB168 600 PLATE

100% RADIOGRAPHY

DESIGNED BY OTHERS

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization Number 14,177 Expires September 13, 2001

Date 11.10.98 Name MACH INTERNATIONAL Signed Raquel Molinari
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

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. of CONNECTICUT have inspected the the pressure vessel part described in this Manufacturer's Data Report on 11-10, 1998, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with the 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 part described in this Manufacturer's 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.

Date 11-10-98 Signed NO. 10 Commissions TEX 320
(Authorized Inspector) (Nat'l Bd. endorse., St., Prov. and No.)