# 104040

## FORM U-1 M .. UFACTURERS' DATA REPORT FOR PRESS. Æ VESSELS

As required by the Provisions of the ASME Code Rules, Section VIII, Division I F - 206 10R Camden Alloy Fabricators Camden, New Jersey 1. Manufactured by (Name and address of Manufacturer) Hercules Incorporated Wilmington, North Carolina 2. Manufactured for \_ (Name and address of Purchaser) 74-6222 1974 3. Type Ver C (Horiz.or Vert.) Heat Exch Kind (Tank, Jacketed, Heat Exch.) Vessel No. (Mfrs.Serial) (State & State No.) Natl. Bd. No. Yr. Built Items 4-9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers, Nominal 3/8 Corrosion 1/16 2 9 Thickness 1n. Allowance 1n. Diam. Tt. In. A 2850 C/S TS 55000 4. SHELL: Material (Kind and Spec. No.) . (Fig.or F.B.& Spec.Min.T.S.) If riveted de-5. SEAMS: Long Dbl Butt Spot \_ Sectioned : No scribe seams H.T. R.T. Efficiency . fully on re-(Yes or No)1 (Yes or No) (Welded, Dbl., Single, Lap, Butt) (Spot or Complete) verse side of No R.T. Spot Sectioned NO No. of Courses H.T. 6. HEADS (a) Material (b) Material T.S. T.S. Knuckle Elliptical Conical Hemispherical Flat Side to Pressure (Convex or Concave) (Top, bottom, ends) Thickness Radius Radius Ratio Apex Angle Diameter (a) (b) If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch \_\_\_\_\_ X \_\_\_\_(Vert.) (Material) (Nominal) 8. JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch) Hydrostatic Præmatic-or 375 Min. Temp.(when = = = = less than -20°) 9. Constructed for max. Test 225 allowable working press 2. psi at max. temp. \_ Press Combination Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary, Material tp 316 Material tp316 Diam. 33 In. Thickness 1
SA 240 typ 316 Diam. 33 In. Thickness 1
(Kind & Spec. No.) (Subject to Pressure)
(Kind & Spec. No.) 10. TUBE SHEETS: Stationary, Material 36.4 Attachment (Welded, Bolted) 33 In. Thickness 1 3/. 4Attachment Welded 2.49 tp 316.D. 3/4 In. Thickness Straight (Kind & Spec. No.) (Straight or U) Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. 5/8 12. SHELL Material SA240tp316 T.S. 75000 Nominal Thickness 5/16 Corrosion Olin. Diam. Ft. Spec. Min. T.S.) 13. SEAMS: Long Db 1 Butt H.T. No R.T. Spot Sectioned No I (Welded Dbl 2 Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No) No Efficiency 85 If riveted describe seams fully on reverse side of Girth UA48(la) H.T. No Spot Sectioned No No. of courses 1 ea.end R.T. form. 14. HEADS (a) Materia S A 5 15 C/S 3 16 S/S 11 ne recrown T.S. \_\_\_\_\_ \_(c) Material \_ Hemispherical Radius Elliptical Knuckle Flat Side to Pressure Location Apex Angle Diameter / (Convex or Concave) (a) Top bottom, ends (b) Channel (c) Floating If removable, bolts used (a) A1.St.SA193B7, 125000, 3/4, 80(b) (Material, Spec. No., T.S., Size, Number) Other fastening . (Describe or Attach Sketch) Hydrostatic Test 225 15. Constructed for max. Min. temp. (when -Prieumatie or allowable working press? 150 psi at max. temp. Combination | Press psi. Items below to be completed for all vessels where applicable. Location Elsewhere in System 16. SAFETY VALVE OUTLETS: Number Size 17. NOZZLES Purpose (Inlet, Reinforcement How Outlet Drain)
In let Number Diam. Of Size Thickness Material ₽₽₽₽₽ 10" SA240tp316 3/16" None Welded Outlet 211 SA312tp316 None Welded Sch.40 Drain  $1^{\Pi}$ SA312tp316 Sch.40 None Welded S.O. Vent 811 S.O. SA53B C/S Sch.40 None Welded Inlet 4" SA53B C/S Welded S.O. Sch.80 None Outlet 1 1" Welded 3000# None Coup. Fq.St. Inlet, Vent

<sup>2</sup> List under remarks other internal or external pressures with coincident temperature when applicable.

'If postweld heat-treated.

<sup>(</sup>Over)

## FORM U-1 (back)

000 hot #

9,71,4056,-3

| 18. INS        | PECTION           | Manholes, N                            | No.                                    |                                       | Size<br>Size   | , L                            | ocation  | <del></del>            | **  |                                     | -      |
|----------------|-------------------|--|--|---------------------------------------|--|--------------------------------|--|------------------------|---|-------------------------------------|--------|
|                | EMINGS;           |  |  |                                       |  |                                | ocation  |                        |   | T                                   |        |
|                | PPORTS:           | Skirr N                                |  | Lugs                                  |  | Legs                           |  | Other                  |   | Attached (Where                     |        |
| 17. 301        | i i okio.         | (Ye                                    | es or No)                              |                                       | (Number)   |                                | (Number)   | (                      | Describe)                                 | (Where                              | & How) |
| 20.REN         | MARKS (L          | ist applicabl                          | e special ser                          | vices in acco                         | rdance with U  | G-120(d):                      | This   | vessel                 | is a 1                                    | pass                                |        |
| 7.1.           | 230               | O sa ft                                | rehoi                                  | ler thi                               | S VESSE  | l is no                        | t desid  | ned fo                 | r letha                                   | 1 service                           | 4      |
|                |                   |  |  |                                       | . Conte  |                                |  |                        |   | 1 3017100                           |        |
|                | k 3 C             | OURCEC                                 | of chal                                | 1 are 2                               | flange   | d and f                        | Tued he  | ads w                  | ith a 1                                   | 1 1/4"                              |        |
|                |                   |  |  |                                       |  |                                |  |                        | SA 285                                    |                                     |        |
| 7.             | 3/8               |  | 43" 0.D                                |                                       | ded bety   | ween th                        | em. no   | teriar                 | 3H Z03                                    | -6 6/3                              |        |
| 0              | 3/0               | LK X                                   | 43 0.0                                 | •                                     |  |                                |  |                        |   |                                     |        |
|                | (Br               | ief description                        | of purpose of                          | the vessel as                         | Air Tank, After                                      | Cooler, Jack                   | eted Cooker.   | etc. State co          | ontents of each                           | part.)                              |        |
|                | 1.                | _                                      |  |                                       | CHARLES (1995) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                                |  |                        |   |                                     |        |
|                |                   |  |  |                                       |  |                                |  | gn, material           | , construction                            | n, and workman                      | ship   |
| of thi         |                   | -                                      |  |                                       | Vessels, Sect  |                                |  | 1                      | 1 14                                      | 2 11/11                             |        |
| Date           | 00                | 1 18                                   | 19 14                                  | Signed Ca                             | mden Al  | loy Fab                        | ricator  | SBy VINCE              | rufe C                                    | . Hellen                            | case   |
|                |                   |  |  |                                       |  |                                |  |                        |   | 11                                  |        |
| ż              |                   | - C Aushanian                          | tion No                                | 399                                   | — Expires—   | 3-3                            | 0-1978   |                        |   |                                     |        |
| C              | Lettilicate       | of Authoriza                           | ittoli No                              |                                       | Zup  | •                              |  |                        |   |                                     |        |
| 7              |                   | ///                                    |  |                                       |  |                                |  |                        |   |                                     | 1      |
|                | 1                 | e je                                   |  | CERTIF                                | ICATE OF   | SHOP INS                       | PECTION  |                        |   | .1                                  | 1      |
|                |                   | fr the set                             | Camdon                                 |                                       | bricato  |                                |  |                        | ersev                                     |                                     |        |
|                | VESSE             | EL MADE BY                             |  |                                       | thi ica co   | at                             | 'L' CD.  |                        | V L                                       | ctors and/or                        |        |
| j              | I, th             | ie undersigned                         | l, holding a va<br>Da                  | lid commission                        | issued by the  | National Boa                   | TersMai  | and Pressure<br>hinerv | Ins Co                                    | /FM .                               | -      |
|                | the Sta           | ite or Provinc                         | ham. \ Ma                              | and emp                               | loyed by Mut<br>have                                 |                                | Gri  | oup of                 | Ins.Co.                                   | <u> </u>                            | ļ      |
| . 1            |                   |  |  |                                       |  |                                |  |                        |   |                                     |        |
| 1000           | data r            | eport on                               | d this pressur                         | e vessel in ac                        | 19 <u>Z V</u> , and cordance with t                  | state that to<br>he applicable | the best of i  | the ASME B             | oiler and Pres                            | sure Vessel                         |        |
|                | Code.             |  | 4 4                                    |                                       |  |                                |  |                        |   |                                     |        |
|                | Ву                | signing this c                         | ertificate neit                        | her the Inspec                        | tor nor his emp                                      | loyer makes                    | any warranty   | , expressed            | or implied, cor                           | ceming the                          |        |
| ,              |                   |  |  |                                       | data report. Fu<br>ty damage or a                    |                                |  |                        |   |                                     |        |
|                |                   |  | 10-3                                   | · · · · · · · · · · · · · · · · · · · | ·  |                                | - Control of the Cont |                        |   |                                     | 1      |
|                | Date_             |  |  |                                       |  |                                |  | . نہ                   | 14 - 1300                                 |                                     |        |
| 8              |                   | 21                                     | 18                                     | 800                                   | Commis   |                                | i Po   | 7                      | :::···                                    | e s la                              |        |
|                | -6                | Ins                                    | pectors Signati                        | ire                                   | Commis   | isions 200                     | Nat'l Boar   | d. State. Prov         | ince and No.                              |                                     |        |
| 676.00         |                   | ,                                      |  |                                       |  |                                |  |                        |   |                                     | J      |
|                | •                 | ***                                    | 1 1 1 1 1 1 1 1 1                      | CONTRACT OF                           |  |                                | £ 55 £   | 100000                 | T 7950                                    | 19 M2 L X                           |        |
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| 8              | N <sub>cons</sub> | ate or Provinc                         |  |                                       | oloyed by  |                                |  | 34240 E                |   | of ,                                | 1      |
|                |                   |  |  |                                       |  | compared t                     | he statemen  | ts in this m           | anufacturer's                             | data report                         | 1      |
|                | with th           | he described p                         | ressure vessel                         | and state that                        | parts referred to                                    | o as data item                 | IS   |                        | 7   |                                     |        |
| uni erru       | i not in          | cluded in the                          | certificate of                         | shop inspect                          | on have been   | inspected by                   | me and that  | to the best of         | f my knowledg                             | e and belief                        | .1     |
|                | 1                 |  |  |                                       | this pressure  |                                |  |                        |   | of the ASME                         | 1      |
|                | Boiler            | and Pressure                           | Vessel Code.                           | The described                         | vessel was insp                                      |                                |  | rydrostatic te         | st of                                     | psi.                                |        |
| 1              | 1.1.              | Susi.                                  | 11 11 11 11 11 11 11 11 11 11 11 11 11 | the Topolo                            | tor nor his em                                       | nlover makes                   | any warrants   | exoressed              | or implied, co                            | nceming the                         |        |
| t              | l w manage        | sabilonnous on                         | cribed in this                         | monufacturer's                        | data report. Fi                                      | irthermore, ne                 | ither the ins  | pector nor hi          | s employer sna                            | all de liadie.                      |        |
| <del>;</del> , | in any            | manner for a                           | ny personal i                          | njury or proper                       | ty damage or a                                       | loss of any                    | kind acising   | from or conne          | cted with this                            | inspection.                         |        |
| - 5            | Date              | · ···································· |  | 56 19 Z                               | 3(\$.1.15.0)   | (.                             |  | 200                    | er en | /ansV                               |        |
|                | . Date .          | . 11.71                                |  |                                       | V  |                                |  |                        | **  | ្សាំ ម៉ូ គឺ i                       |        |
|                | 315.5             |  |  |                                       | Commis   | ssions •                       |  | 3                      | (28.5) . 5)<br>                           | : : : : : : : : : : : : : : : : : : |        |
| (**)           | 1                 | Ins                                    | pector's Signa                         |                                       | Commis   |                                | Nat'l Board  | d, State, Prov         | ince and No.                              |                                     |        |