

**SAMPLE REPAIR ALTERATION OR RERATING OF PRESSURE VESSEL FORM**

Form Date 24 OCT 2000 REV1  
 Form No. #1  
 Owner or User Name ULTRAMAR LTD  
 Vessel Name DESSALEUR B1801A

1. Original Vessel Identification Number V303 DESALTER  
 2. Original Vessel Location ARK CITY, KANSAS, USA  
 3. Manufacturer G.A. MBSITE Serial No. 3931A  
ALVIN TX, USA

4. See attachments for additional data? Form U-1  Yes  No  
 5. Original Construction Code ASME SEC VIII DIV 1 1977 W 79  
 6. Original Maximum Allowable Working Pressure 200 PSIG Year Built 1980  
 7. Original Design Temperature 350 °F Year Built  
 8. Original Minimum Design Metal Temperature -20 F At Pressure 200 PSIG  
 9. Original Test Pressure 348 PSIG Fluid EAU Position HORIZ  
 10. Shell Material SA 516 GR 70 Head Material SA 516 GR 70  
NOZZLE NECK SA 106 B  
FLG SA 105

11. Shell Thickness 1 po. Head Thickness 15/16" po  
 12. Original Joint Efficiency 85%  
 13. Original Radiography RT 3  Yes  No  
 14. Original PWHT  Yes  No  
 If yes, N/A Temp (°F) N/A Time (Hrs)

15. Original Corrosion Allowance .125" po  
 16. Work on Vessel Classified as:  Repair  Alteration  Rerating

17. Organization Performing Work ULTRAMAR  
 18. Construction Code for Present Work ASME SEC VIII DIV 1 ED 98 ADD 99  
 19. New Vessel Identification Number (if Applicable) B1801  
 20. New Vessel Location (if Applicable) RAFFINERIE ST-ROMUALD ULTRAMAR  
 21. New Maximum Allowable Working Pressure 247 PSIG @ -15 PSIG @ 500 F EXT PRES.  
 22. New Design Temperature 500 °F  
 23. New Minimum Design Metal Temperature -20 °F At Pressure 247 PSIG  
 24. New PWHT  Yes  No  
N/A Temp (°F) N/A Time (Hrs)

25. New Joint Efficiency, if Applicable LONG SEAM 1, CIRC 85% = RT2  
 26. Type of Examination or Inspection Performed:

- radiographic
- ultrasonic
- magnetic particle
- penetrant
- visual
- other

27. New Pressure Test if Yes, Pressure 321 Test Medium EAU Test Position HORIZ  
 28. New Corrosion Allowance .187"

29. Describe work performed (attach drawings, calculations, and other pertinent data):  
AJOUT 3 TUYERES 2"-300" LUNA-105N ITEM #17A/B & #18  
AJOUT PLAQUE DE RENFORCEMENT DES TUYERES #5-#8 & #15  
TUYERE #3, 4" 300", REMPLACE PAR 8"-300" RFA-105N SH 120 AVEC PA

**Statement of Compliance**

We certify that the statements made in this report are correct and that all material and construction for and workmanship of this  
 repair  alteration,  rerating conform to the requirements of the \_\_\_\_\_ Edition of API 510, Pressure Vessel Inspection Code.  
No ENR QC: @ 1962  
 Signed [Signature] (repair, alteration, or rerating organization) RBQ  
 Date 00/11/23 (authorized representative)

**Statement of Inspection**

I, the undersigned, an inspector employed by \_\_\_\_\_ having inspected the work described above, state  
 that to the best of my knowledge, the work has been satisfactorily completed in accordance with the \_\_\_\_\_ Edition of API 510,  
 Pressure Vessel Inspection Code.  
 Signed [Signature]  
 API 510 Certification Number \_\_\_\_\_  
 Date 00/11/23

MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS P.3  
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) V-302  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

- 1. Manufactured by G A Mosites Co of Houston, Inc., Alvin, Texas
- 2. Manufactured for Petresco Division, Petrolite Corporation, Houston, Texas
- 3. Location of Installation Total Petroleum Inc., Alma, Michigan
- 4. Type horizontal 3931B - D-80-3230 400 (Year Built) 1980  
(Horiz. or Vert. Tank) (Mfg's Serial No.) (CRN) (Drawing No.) (Nat'l Bld. 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 W79 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: \_\_\_\_\_

(Name of part, item number, Mfg's name and identifying stamp)

- 6. Shell: Matl. SA516-70 Nom. Thk. 1" in. Corr. Allow. .125 in. Diam. 10 ft. 0 in. Length 24 ft. 8 in.  
(Spec. No., Grade)
- 7. Seams: Long. double butt welded R.T. RT-3 Efficiency 85 % H.T. Temp. \_\_\_\_\_ F Time \_\_\_\_\_ hr.  
(Welded, Bolt, Spot, Lap, Butt) (Spot or Full)
- Girth double buttwelded R.T. RT-3 No. of Courses 3  
(Welded, Bolt, Sngl., Lap, Butt) (Spot, Partial, or Full)

- B. Heads: (a) Material SA516-70 (b) Material SA516-70  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisph. Radius	Flat Diam	Side to Pressure (Convex or Concave)
Right	15/16	.125	-	-	2:1	-	-	-	Concave
Left	15/16	.125	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Material, Spec. No., Cr., Size, No.)

- 9. Constructed for max. allowable working pressure 200 psi at max. temp. 350° F. Min. temp. (when less than -20 °F) \_\_\_\_\_ F. Hydrostatic, ~~operating~~ test pressure 348 psi.
- 10. Safety Valve Outlets: Number 1 Size 1"300# Location shell
- 11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement matl.	How Attached	Location
End Manway	1	20"300#	RFSO	SA106B	.500	SA516-70	welded	head
Top Manway	1	18"300#	RFSO	SA106B	.500	SA516-70	welded	shell
Crude In/Out	2	6"300#	RFSO	SA106B	.432	SA516-70	welded	
Misc.	2	4"300#	RFSO	SA106B	.438	SA516-70	welded	
Safety FS	1	4"300#	RFLWN	SA105	-	-	welded	
Disc.	1	3"300#	RFSO	SA106B	.438	SA516-70	welded	

- 12. Supports: Skirt no Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other saddles Attached welded, shell  
(Yes or no) (No.) (No.) (Describe) (Where and how)
- 13. Remarks: PO# 6829 Item JHP-348B Bilectric Desalter #Ext pressure 15 psi @350°F

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 1-15-81 Signed G A Mosites Co of Houston, Inc. \_\_\_\_\_  
(Manufacturer) (Representative)  
"U" Certificate of Authorization No. 5373 expires December 31, 1982

CERTIFICATE OF SHOP INSPECTION

Vessel made by G A Mosites Co of Houston Inc. at Alvin, Texas  
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Texas and employed by Employers Casualty inspected the pressure vessel described in this Manufacturers' Data Report on Jan 9, 1981, 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 1-16-81 Commissions National Board 7887  
(Inspector) (Nat'l Board, State, Province and No.)

