

## REPORT ON BOILERS.

No. 48190.

Date of writing Report JAN 14 1952 When handed in at Local Office JAN 24 1952 Port of GLASGOW.  
 Received at London Office 30 JAN 1952  
 No. in Survey held at MOTHERWELL Date, First Survey 20<sup>th</sup> Dec. 1951 Last Survey 11<sup>th</sup> January 1952  
 Reg. Book CALTEX CALCUTTA (Number of Visits 5)  
 on the CALTEX CALCUTTA Tons Gross 8527 Net 4808  
 Built at Sunderland By whom built Wm. Doyford & Sons Ltd Yard No. 489 When built 1952  
 Boilers made at BROOKSIDE, MOTHERWELL By whom made MARSHALL & ANDERSON LTD. Boiler No. 3207/4 When made JAN 1952  
 Owners Avesha Landships (U.K.) Ltd Port belonging to London

VERTICAL DONKEY BOILER— No. 1 Description CLARKSON EXHAUST GAS Manufacturers of steel COLVILLE LTD.  
 Made at MOTHERWELL By whom made MARSHALL & ANDERSON LTD. When made 1/52 Where fixed UPPER ROOM Working pressure 100 LBS  
 tested by hydraulic pressure to 200 Date of test 11.1.52 No. of Certificate 23585 Fire grate area \_\_\_\_\_ Description of safety valves \_\_\_\_\_  
 No. of safety valves 2 Area of each 1.76 Pressure to which they are adjusted 100 If fitted with easing gear \_\_\_\_\_ If steam from main boilers can enter the donkey boiler \_\_\_\_\_  
 Diameter of donkey boiler 5'-10 3/8" Length 12'-6" Material of shell plates STEEL Thickness 13/32"  
 Range of tensile strength 28/32 TONS Description of riveting long. seams DBL RIVETED BUTTS Diameter of rivet holes 13/16" Whether punched or drilled DRILLED Pitch of rivets 2 7/8" Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_  
 Thickness of shell crown plates 1/16" Radius of do. 5'-6" No. of stays to do. NONE Diameter of stays \_\_\_\_\_ Diameter of furnace—Top 3'-1" Bottom 5'-4 5/16" Length of furnace \_\_\_\_\_ Thickness of furnace side plates 3/4" Description of joint FUSION WELD Working pressure of furnace by rules \_\_\_\_\_  
 Thickness of Ogee ring 25/32" Working pressure of Ogee ring by rules \_\_\_\_\_ Thickness of furnace crown plates 5/8" Radius of do. 3'-0" Stayed by \_\_\_\_\_ Diameter of uptake 1'-9" Thickness of uptake plates 9/16" Thickness of tube plates 3/4" Mean pitch of stay tubes in nest NONE Pitch in outer vertical rows \_\_\_\_\_  
 Diameter of tube holes 2 3/4" BACK plain \_\_\_\_\_ Working pressure of tube plates by rules \_\_\_\_\_ Tubes: Material STEEL  
 External diameter 2 3/4" Thickness 9 W.G. No. of threads per inch \_\_\_\_\_ Pitch of Tubes 5.497 x 3"  
 Working pressure by rules \_\_\_\_\_ Manhole compensation; Size of opening in shell plate \_\_\_\_\_ Section of compensating \_\_\_\_\_  
 No. of rivets and diameter of rivet holes \_\_\_\_\_ Outer row pitch at ends \_\_\_\_\_

The foregoing is a report of the  
MARSHALL & ANDERSON LIMITED  
John Marshall Manufacturer.

Dates During progress of work in shops 1951. Dec. 20-24. (1952) Jan 3-10-11.  
 Survey while building During erection on board vessel - - -  
 Total No. of visits 5.

Drawing No. 5811

Is the approved plan of boiler forwarded herewith No, will accept F.E. on Last Boiler.

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

The boiler has been constructed under Special Survey, in accordance with the approved plan and the Rules of the Society for Boilers.  
 Materials have been tested by Surveyors to the Society & so far as could be seen were sound & free from defects. The workmanship is good.  
 Boiler is intended for Ship No. 789 by Wm. Doyford & Sons Ltd., Sunderland and the Clarkson Contract No. 4401.

This boiler has been securely fixed on board & safety valves adjusted under steam at working pressure.

W. Armstrong

Survey Fee ... £ 10 : - : - When applied for 29 JAN 1952 19  
 Travelling Expenses (if any) £ : : : When received 19

Committee's Minute

GLASGOW 29 JAN 1952

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Deferred for completion

Engineer Surveyor to Lloyd's Register of Shipping.

W. Armstrong  
See F.E. mch. rpt. Sl. 35918  
 TUES. 9 DEC 1952  
 Lloyd's Register Foundation

004603-004611-0232