

REPORT ON BOILERS.

No. 24481.

Date of writing Report 20th MAR. 1953 When handed in at Local Office 25th MAR. 1953 Port of GREENOCK Received at London Office 9 APR 1953

No. in Survey held at GREENOCK Date, First Survey 28/3/52 Last Survey 17/3/1953
 Reg. Book 95726 on the MOTORSHIP "TUAREG" (Number of Visits 12) Tons } Gross 11,480
 Yard No. 1069 Built at PORT GLASGOW By whom built LITHGOWS LTD., [KINGSTON] YARD When built 1953
 Shell MADE AT LEVEN By whom made HENRY BALFOUR & CO. LTD. J678
 Boilers made at GREENOCK By whom made J. G. KINCAID & CO. LTD. Boiler No. [K220] 430 For When made 1953
 Owners WILH. WILHELMSSEN, OSLO, NORWAY. Port belonging to TÖNSBERG.

SPANNER PATENT "SWIRLYFOO" WASTE HEAT
VERTICAL DONKEY BOILER No. ONE Description EXHAUST GAS Manufacturers of steel COLVILLIES LTD.,
 Made at GREENOCK By whom made J. G. KINCAID & CO. LTD. When made 1953 Where fixed GREENOCK Working pressure 180 $\frac{165}{8}$ lb/sq. in.
 Tested by hydraulic pressure to 320 Date of test 4/6/52 No. of Certificate 2678 Fire grate area ✓ Description of safety valves ORDINARY 2 $\frac{1}{2}$ " DOUBLE SPRING
 No. of safety valves 1 Area of each 9.820 Pressure to which they are adjusted 180 $\frac{165}{8}$ lb/sq. in. If fitted with easing gear YES If steam from main boilers can enter the donkey boiler ✓ Diameter of donkey boiler 6'-4 $\frac{3}{4}$ " Length 11'-0" Material of shell plates STEEL Thickness $\frac{5}{8}$ "
 Range of tensile strength 28/32 Tons/sq. in. Description of CLASS I WELDED long. seams ✓ Diameter of rivet holes ✓ Whether punched or drilled ✓ Pitch of rivets ✓ Lap of plating ✓ Per centage of strength of joint ✓ Working pressure of shell by rules 189.06 $\frac{165}{8}$ lb/sq. in. Thickness of shell crown plates ✓ Radius of do. ✓ No. of stays to do. ✓ Diameter of stays ✓ Diameter of furnace—Top ✓ Bottom ✓ Length of furnace ✓ Thickness of furnace side plates ✓ Description of joint ✓ Working pressure of furnace by rules ✓ Thickness of Ogee ring ✓ Working pressure of Ogee ring by rules ✓ Thickness of furnace crown plates ✓ Radius of do. ✓ Stayed by ✓ Diameter of uptake ✓ Thickness of uptake plates ✓ Thickness of tube plates Top 1" Bottom 1" Mean pitch of stay tubes in nest 11 $\frac{1}{2}$ " Pitch in outer vertical rows ✓
 Diameter of tube holes Top 2 $\frac{3}{4}$ " Bottom 2 $\frac{1}{4}$ " Working pressure of tube plates by rules As Approved Tubes: Material STEEL 12/16 Tons/sq. in.
 External diameter 2" Thickness 2" No. of threads per inch 9 S.W.G. STAY TUBES WELDED TO TUBE PLATES. Pitch of Tubes 2 $\frac{7}{8}$ " TRIANGULAR PITCH
 Working pressure by rules As Approved Manhole compensation; Size of opening in shell plate 3 @ 16" x 12" Section of compensating ring 12" x 1 $\frac{1}{2}$ " No. of rivets and diameter of rivet holes ✓ Outer raw pitch at ends ✓

BOILER HEATING SURFACE 2500 SQ. FT.

The foregoing is a correct description.
 For JOHN G. KINCAID & COY., LTD.
 Chief Draughtsman.

Dates of Survey while building { During progress of work in shops (1952) MAR. 28 APRIL 11-23-28 JUNE 4 AUG 15. Drawing No. 4226E [SPANNER DRAWING]
 { During erection on board vessel - DEC. 3-17-30. (1953) FEB. 4-27. MAR. 17.
 Total No. of Visits 12 Is the approved plan of boiler forwarded herewith NO. RETAINED FOR SIMILAR BOILER.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THE BOILER SHELL WAS FABRICATED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH THE SOCIETY'S REQUIREMENTS FOR WELDED PRESSURE VESSELS CLASS I, AND THEREAFTER CONSTRUCTED UNDER SPECIAL SURVEY IN ACCORDANCE WITH THE RULES AND APPROVED PLANS. THE MATERIALS AND WORKMANSHIP ARE GOOD. ON COMPLETION OF THE WELDING, THE BOILER WAS STRESS RELIEVED. IT HAS BEEN EFFICIENTLY INSTALLED ON BOARD THE VESSEL AND THE SAFETY VALVES WERE ADJUSTED UNDER STEAM TO 180 $\frac{165}{8}$ lb/sq. in.

COMPRESSION RINGS:— INBOARD VALVE 13 $\frac{1}{32}$ "
 OUTBOARD VALVE 25 $\frac{1}{64}$ "

Survey Fee ... £ 21-0-0 When applied for 17th FEBRUARY 1953
 Travelling Expenses (if any) £ : : When received 20th MARCH 1953

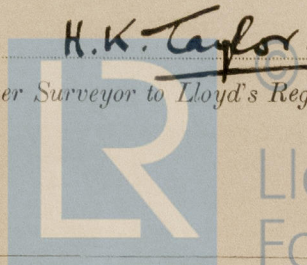
Committee's Minute

GLASGOW

8 APR 1953

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

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