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MAY 1949

# REPORT ON BOILERS.

No. 74023

25 MAY 1949

D.O.

Date of writing Report 19... When handed in at Local Office 20/5/1949. Port of GLASGOW.  
 Received at London Office  
 No. in Survey held at Annan. Date, First Survey 2/12/48. Last Survey 21/4/1949.  
 Reg. Book 40524 on the T.M.V. "MOMBASA" (Number of Visits 19) Tons } Gross 2213  
 Supplement Net 1090  
 Master 379 Built at Leith By whom built Henry Robb Ltd., When built 1,50.  
 Boilers made at Annan. By whom made Cochran & Co, Annan Boiler No. 17662 When made 1949  
 Owners British India Steam Navigation Co. Ltd. Port belonging to London.

**VERTICAL DONKEY BOILER**— No. One Description Cochran Manufacturers of steel Colvilles Ltd.,  
 Made at Annan By whom made Cochran & Co, Annan Ltd When made 1949 Where fixed of Engine Room Working pressure 105 lb/sq. in.  
 tested by hydraulic pressure to 208 lb/sq. in. Date of test 21-4-49 No. of Certificate 22881 Fire grate area 0.7 Description of safety valves double spring  
 No. of safety valves 2 Area of each 3.14 lbs/sq. in. pressure to which they are adjusted 100 lbs/sq. in. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler  
 Diameter of donkey boiler 5'-3" Length 13'-6" Material of shell plates S Thickness 1/2" & 13/32"  
 Range of tensile strength 28/32 Description of riveting long. seams D.R. Lap Diameter of rivet holes 25/32" Whether punched or drilled drilled Pitch of rivets 2.59", 2.62" & 2.67" Lap of plating 3.7/8" Per centage of strength of joint Rivets 72.5 Working pressure of shell by rules 118 lbs/sq. in. Thickness of shell crown plates 3/8" & Radius of do. 2'-7.1/2" of stays to do. none Diameter of stays - Diameter of furnace—Top - Bottom 4'-6" Length of furnace - Thickness of furnace side plates 1/2" Description of joint seamless Working pressure of furnace by rules 153 lb/sq. in. Thickness of Ogee ring 11/16" Working pressure of Ogee ring by rules 109 lb/sq. in. Thickness of furnace crown plates 1/2" Radius of do. 2'-3" Stayed by hemisphere Diameter of uptake 13.3/4" x 16.3/4" Thickness of uptake plates 1/2" Thickness of tube plates front 11/16" Mean pitch of stay tubes in nest 9.53" Pitch in outer vertical rows 8"  
 Diameter of tube holes FRONT 2.11/16" BACK 2.1/2" Working pressure of tube plates by rules F 106 lbs/sq. in. Tubes: Material S.D. steel  
 External diameter plain 2.9/16" stay 2.1/2" Thickness plain 10/16" No. of threads per inch 9 Pitch of Tubes 3.11/16" x 4"  
 Working pressure by rules 175 lbs/sq. in. Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 7.1/2" x 1" No. of rivets and diameter of rivet holes 40 @ 25/32" Outer row pitch at ends 4.17."

The foregoing is a correct description.

*La Rex*

Manufacturer.

Dates of Survey while building  
 During progress of work in shops 1948 DEC. 2-9-16-23 1949 JAN. 5-13-25 FEB. 4-10-17-24 MAR. 31-07-24-31 Drawing No. 33778A.  
 During erection on board vessel - -  
 Total No. of Visits  
 Is the approved plan of boiler forwarded herewith Yes.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
 This boiler has been constructed under Special Survey and in accordance with the approved plan. The materials and workmanship are good.

This boiler has been efficiently installed and secured aboard, examined under steam and the safety valves adjusted to 100 lbs/sq. in., and found satisfactory  
*A. Campbell*  
 Leith.

### MONTHLY ACCOUNT

Survey Fee ... £ 10 : 0 : 0 } When applied for 19  
 Travelling Expenses (if any) £ : : } When received 19

*For J. M. ... & self*  
*A. R. ...*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW** 24 MAY 1949  
 Assigned *Keferred for Completion*



15  
14/6/49

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