

REPORT ON BOILERS.

No. 72083

Received at London Office

10 SEP 1947

Date of writing Report 6.9.47 When handed in at Local Office 6.9.47 Port of GLASGOW

No. in Survey held at Annan Date, First Survey 7.2.47 Last Survey 11.8.1947
 Reg. Book on the M/V. FERNLAND (Number of Visits 4) Tons Gross 5564 Net 5140

Yard No. 325 Built at SUNDERLAND By whom built BARTRAM & SONS LIMITED When built 1948.

Boilers made at ANNAN By whom made COCHRAN & CO. ANNAN LIMITED. Boiler No. 17185 When made 1947

Owners FERNLEY & EGER. Port belonging to OSLO.

VERTICAL DONKEY BOILER— No. one Description Cochran Manufacturers of steel Colvilles Ltd.,

Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1947 Where fixed TOP ER PLATFORM Working pressure 105 lbs/sq. in. Alternate Ex. G ACT END.

tested by hydraulic pressure to 208 lbs/sq. in. Date of test 21/8/47 No. of Certificate 22489 Fire/grate area Description of safety valves Double spring and O.F.

No. of safety valves 2 Area of each 3.14 sq. in. Pressure to which they are adjusted 105 lbs/sq. in. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler

Diameter of donkey boiler 6'0" Length 16'3" Material of shell plates 8 Thickness 19/32" & 7/16"

Range of tensile strength 28/32 tons Description of riveting long. seams D.R. Lap Diameter of rivet holes 25/32" Whether punched or drilled drilled Pitch of rivets 2.59" 2.6" & Lap of platin 37" Per centage of strength of joint Working pressure of shell by rules 108.2 lbs per sq. in. Thickness of shell crown plates 3/4 Radius of do. 6'0" No. of stays to do. none Diameter of stays - Diameter of furnace—Top - Bottom 5'0" Length of furnace - Thickness of furnace side plates 1/2" Description of joint seamless Working pressure of furnace by rules 137.5 lbs/sq. in. Thickness of Ogee ring 27/32" Working pressure of Ogee ring by rules 109.5 lbs/sq. in. Thickness of furnace crown plates 1/2" Radius of do. 2'6" Stayed by hemisphere Diameter of uptake 21 1/2" x 25" Thickness of uptake plates 9/16" Thickness of tube plates front 27/32" back 23/32" Mean pitch of stay tubes in nest 9.18" Pitch in outer vertical rows 6.25"

Diameter of tube holes FRONT 2.3/16" BACK 2" Working pressure of tube plates by rules F.109.9 lbs/sq. in. Tubes: Material steel

External diameter 2" Thickness 11/32" No. of threads per inch 9 Pitch of Tubes 3" x 3 1/8"

Working pressure by rules 215 lbs/sq. in. Manhole compensation; Size of opening in shell plate 21" x 16 1/2" Section of compensating ring 7 1/2" x 1" No. of rivets and diameter of rivet holes 40 @ 25/32" Outer raw pitch at ends 4.4"

For COCHRAN & CO. ANNAN LTD. The foregoing is a correct description, Manufacturer. Technical Sales Manager

Dates of Survey while building During progress of work in shops 1947 Feb. 14-21 when 19.21 by 26.31.21. May 5.11.22.29 June 5.19.26 July 10

During erection on board vessel - -

Total No. of Visits 21. Is the approved plan of boiler forwarded herewith Yes

Drawing No. 32268

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

This boiler has been constructed to the order of Messrs. J.G. Kincaid & Co. Ltd., and despatched to Greenock for installation.

This boiler has been constructed under Special Survey and in accordance with the approved plan. The materials and workmanship are good.

This donkey boiler has been efficiently fitted in place on board the M/V FERNLAND, examined under steam and its safety valves adjusted to WP 105 lbs/sq. in., accumulation test carried out with satisfactory results.

Rings. P. 5/8" 3 1/2"

Sunderland
11-3-48.

Survey Fee ... £ 6 : 0 : 0

Travelling Expenses (if any) £ :

MONTHLY ACCOUNT

When applied for 19

When received 19

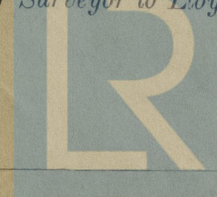
Committee's Minute GLASGOW 9 SEP 1947

Assigned

Deferred for completion

Su F.E. mch. rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation

003458-003485-0201