

REIVED
Rpt. 5e.
1950
D.O.

REPORT ON BOILERS.

No. 46322

Received at London Office

16 NOV 1950

Date of writing Report 11. 11. 50 When handed in at Local Office 11. 11. 50 Port of Glasgow.
No. in Survey held at 10 Date, First Survey 10th August 1950 Last Survey 7th November, 1950.
(Number of Visits 13)
Reg. Book 95754 on the D.E.T.S. "ROYAL IRIS"
Engine No. 1186
Yard No. 1448
Built at Dumbarton By whom built Wm. Denny & Bros., Ltd.
Boilers made at Annan By whom made Cochran & Co., Annan, Ltd Boiler No. 18843
Owners WALLACEY CORPORATION Port belonging to LIVERPOOL.
When built 4/1951
When made 1950.

VERTICAL DONKEY BOILER— No. 18843 Description vertical Manufacturers of steel Colvilles
Made at Annan By whom made Cochran & Co., Annan, Ltd When made 1950 Where fixed - Working pressure 105
tested by hydraulic pressure to 208 Date of test 2.11.50 No. of Certificate 23279 Fire grate area 0. F. Description of safety valves double spring
No. of safety valves 2 Area of each 1.76 sq. in. Pressure to which they are adjusted 60 lb. If fitted with easing gear yes If steam from main boilers can
enter the donkey boiler - Diameter of donkey boiler 4'-6" Length 10'-6" Material of shell plates steel Thickness 3/8, 7/16"
Range of tensile strength 28-32 Description of riveting long. seams D.R. lap Diameter of rivet holes 23/32 Whether punched or
drilled drilled Pitch of rivets 2.443, 2.383, Lap of plating 3 3/4" Per centage of strength of joint Working pressure of shell by
rules 119.5 lb. Thickness of shell crown plates 9/16" Radius of do. 4'-6" No. of stays to do. none Diameter of stays - Diameter of
furnace— Top Bottom 3'-9" Length of furnace - Thickness of furnace side plates 1/2" Description of joint seamless Working
pressure of furnace by rules 183.3 lb Thickness of Ogee ring 21/32 Working pressure of Ogee ring by rules 115.3 lb Thickness of furnace
crown plates 1/2" Radius of do. 22 1/2" Stayed by hemisphere Diameter of uptake 10 1/2" x 17" Thickness of uptake
plates 1/2" Thickness of tube plates front 19/32 back 17/32 Mean pitch of stay tubes in nests as approved 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 B 128.1 Tubes: Material steel
External diameter 2 1/2" Thickness 11/32 No. of threads per inch 9 Pitch of Tubes 3 1/2" x 4"
Working pressure by rules 175 lbs. Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating
ring 4 1/2 x 13/16" No. of rivets and diameter of rivet holes 52 @ 23/32 Outer row pitch at ends 2.5/8"

The foregoing is a correct description,

FOR COCHRAN & CO., ANNAN, LTD. Manufacturer.

Dates of Survey while building During progress of work in shops 1950 Aug. 10-17-24-31 Sep 4-21-27 Oct 5-12-19-24 Nov 2-7
During erection on board vessel - - -
Total No. of visits 13 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 in accordance with the approved plans.
Materials and workmanship are good.

THE BOILER HAS BEEN EFFICIENTLY INSTALLED ON BOARD THE VESSEL AND
THE SAFETY VALVES WERE ADJUSTED UNDER STEAM TO 60 LB/SQ.
A SATISFACTORY ACCUMULATION TEST WAS CARRIED OUT.

H.K. Taylor.

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

Committee's Minute

Assigned

GLASGOW 15 NOV 1950

Deferred for comp.

James Crawford.
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation
011636-04645-0230