

1 OCT 1932

Sld. No. 31054

86 No. 52568

REPORT ON BOILERS.

Received at London Office 18 JUN 1932

Date of writing Report 19 When handed in at Local Office 1-6-1932 Port of Glasgow Sld. 27 Sep. 1932

No. in Survey held at Amman Date, First Survey 16-8-32 Last Survey 31-5-1932

Reg. Book. on the BOILER No. 12228 S/S Tyndall (Number of Visits 6) Gross 1314

Master Built at Sunderland By whom built S.P. Austin & Son Tons Net 731

Boilers made at Amman When built 1932

By whom made Cochran & Co. Annan Ltd When made 1932

Port belonging to

VERTICAL DONKEY BOILER— No. one Description Cochran Vertical Manufacturers of steel Steel Company of Scotland

Made at Amman By whom made Cochran & Co. Annan Ltd. When made 1932 Where fixed — Working pressure 100

tested by hydraulic pressure to 200 Date of test 31-5-32 No. of Certificate 19135 Fire grate area 16.750 Description of safety valves enclosed spring

No. of safety valves 2 Area of each 3.140 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'-6" Length 12'-3" Material of shell plates steel Thickness 7/16 & 1/2"

Range of tensile strength 28-32 Description of riveting long. seams WR lap Diameter of rivet holes 25/32 Whether punched or drilled drilled Pitch of rivets 2.69 2.55 2.5 Lap of plating 3 7/8 Per centage of strength of joint Rivets 66.6 Plates 68.6 Working pressure of shell by rules 117 Thickness of shell crown plates 3/32 & 1/16 Radius of do. 2'-9" No. of stays to do. — Diameter of stays — Diameter of furnace—Top — Bottom 4'-9" Length of furnace — Thickness of furnace side plates 1/2" Description of joint seamless Working pressure of furnace by rules 144 Thickness of Ogee ring 1/16 Working pressure of Ogee ring by rules 104 Thickness of furnace crown plates 1/2" Radius of do. 2'-4 1/2" Stayed by hemisphere Diameter of uptake 13" x 19 1/2" Thickness of uptake plates 1/2" Thickness of tube plates front 23/32 back 19/32 Mean pitch of stay tubes in nest 10.5" Pitch in outer vertical rows 8"

Diameter of tube holes FRONT stay 2 1/16 plain 2 1/8 BACK stay 2 1/2 plain 2 1/2 Working pressure of tube plates by rules F104. B111 Tubes: Material Iron

External diameter stay 2 1/2 plain 2 1/2 Thickness stay 1/32 plain 11/32 No. of threads per inch 9 Pitch of tubes 4" x 3 1/2"

Working pressure by rules 125 Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 1 1/2" No. of rivets and diameter of rivet holes 36 @ 25/32 Outer row pitch at ends 3 5/8 3 1/16

FOR COCHRAN & CO., ANNAN, LTD.

The foregoing is a correct description,

GENERAL WORKS MANAGER

300 lb. AS.

Dates of Survey while building { During progress of work in shops - 1932 Mar 16 23 Apr 8 25 May 2 31 } Drawing No. 19217

{ During erection on board vessel - - } 6

Total No. of visits 6

Is the approved plan of boiler forwarded herewith yes

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

The materials and workmanship are good.

The boiler has been constructed under special survey in accordance with the Rules. It is being sent to Sunderland to be fitted in the vessel.

This boiler was satisfactorily fitted on board S.S. "TYNDALL", built by Messrs. S.P. Austin & Son Ltd 1932, has been examined under a full head of steam and the safety valves adjusted to 100 lbs./sq. inch. Washers: 2 1/2" & 1 1/2"

In station, see Machinery Report.

Survey Fee ... £ 4 : 4 : When applied for 19

Travelling Expenses (if any) £ : : When received 19

Committee's Minute GLASGOW 7 - JUN 1932

Assigned TRANSMIT TO LONDON

MONTHLY ACCOUNT

See Sld. 31054

003138-003146-0273

Lloyd's Register
Foundation