

REPORT ON BOILERS.

No. 40500

Received at London Office

WED OCT 27 1920

Date of writing Report 18th Oct 1920 When handed in at Local Office 23. 10. 1920 Port of Glasgow
No. in Survey held at Glasgow Date, First Survey 17. 3. 1920 Last Survey 18th Oct 1920
Reg. Book. on the Boilers B 125 Philomel (Number of Visits 11) Gross 1563.35
Tons Net 928.26
Master Built at Liron By whom built Ailea S.B.C. When built 1920
Engines made at Liron By whom made Ailea S.B.C. Lugs No 106 When made 1920
Boilers made at Glasgow By whom made Dunsmuir & Jackson When made 1920
Registered Horse Power Owners Genl Stm Nav. Co Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel. Glasgow S. Co. J. Spencer & Sons

(Letter for record) Total Heating Surface of Boilers 5154 sq ft Is forced draft fitted No. and Description of

Boilers 100 high ended multitubular Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 18-10-20

No. of Certificate 15540 Can each boiler be worked separately Area of fire grate in each boiler 83 1/2 sq ft No. and Description of

safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 16'-11" Length 11'-6"

Material of shell plates S Thickness 1 1/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams L.D.R. long. seams T.R. 3/4" Straps Diameter of rivet holes in long. seams 13/8 Pitch of rivets 9 9/16

width of butt straps 20 1/2 Per centages of strength of longitudinal joint rivets 85.75 Working pressure of shell by

rules 182 lbs Size of manhole in shell 16" x 12" Size of compensating ring No. and Description of Furnaces in each

boiler 4 Corrugated Material S Outside diameter 49 Length of plain part top Thickness of plates crown 1 1/32

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 185 Combustion chamber

plates: Material S Thickness: Sides 7/16 Back 7/16 Top 7/16 Bottom 7/8 Pitch of stays to ditto: Sides 9 1/2 x 9 1/2 Back 9 7/8 x 9

Top 9 1/2 x 9 1/2 If stays are fitted with nuts or riveted heads No Working pressure by rules 181 Material of stays S Area at

smallest part 2'07 Area supported by each stay 90.25 Working pressure by rules 201 End plates in steam space: Material S Thickness 1 1/16

Pitch of stays 20 x 16 1/2 How are stays secured S. nuts Working pressure by rules 190 Material of stays S Area at smallest part 5'7 1/2

Area supported by each stay 330 Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 1/32 Material of

Lower back plate S Thickness 2 1/32 Greatest pitch of stays 14 3/4 x 9 Working pressure of plate by rules 210 Diameter of tubes 3 1/2

Pitch of tubes 4 1/16 x 4 1/16 Material of tube plates S Thickness: Front 1 1/32 Back 7/8 Mean pitch of stays 13 3/4 Pitch across wide

water spaces 14 1/2 Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of

girder at centre 11 x 2 Length as per rule 40 7/16 Distance apart 9 1/2 Number and pitch of Stays in each 3 @ 9 1/2

Working pressure by rules 187 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

These boilers are duplicate of same make Survey request form Boilers "B 124" Report No 39979. No 2309 The foregoing is a correct description, Manufacturer.

Dates of Survey During progress of work in shops 1920 Mar 17 May 13 Jun 7 July 7. 14. Aug 11 Sep 17. 28 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel Total No. of visits 11.

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

These boilers have been built under Special Survey and in accordance with the Rules, the materials and workmanship are sound & good, on completion they were tested by water pressure to 360 lbs per square inch and found tight and satisfactory in all respects.

These boilers have been satisfactorily fitted on board the above vessel see 36 Rpt N° 41488. JCBan.

Survey Fee ... £ 12 : 8 : When applied for, 25-10-20.

Travelling Expenses (if any) £ : : When received, 30. 10. 20.

Committee's Minute Glasgow 26 OCT 1920 Engineer Surveyor to Lloyd's Register of Shipping

Assigned TRANSMIT TO LONDON See 36 Rpt. No. 41488. 15 NOV 1921