

REPORT ON BOILERS.

No. 36641

WED. 7 FEB. 1917

Received at London Office

Date of writing Report 4 - 1 - 1917 When handed in at Local Office

Port of Glasgow

No. in Survey held at Glasgow

Date, First Survey 19th Jan. 1915 Last Survey 25 - 1 - 1917

Reg. Book. on the S/S "Fennelaf"

(Number of Visits) Gross Tons Net

Master Built at Glasgow By whom built Raper, Miller & Co. (200) When built 1917

Engines made at Glasgow By whom made Dunsmuir, Jackson & Co. (454) When made 1917

Boilers made at ditto By whom made ditto When made 1917

Registered Horse Power Owners ? Port belonging to

MULTITUBULAR BOILERS ~~MANUFACTURED BY~~ DONKEY. Manufacturers of Steel L. & D. Steel Co. Ltd. & Dunslop.

Letter for record 3 Total Heating Surface of Boilers 12627 Is forced draft fitted no No. and Description of

Boilers one Single Ended Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 26. 4. 16

No. of Certificate 13404 Can each boiler be worked separately Area of fire grate in each boiler 61.5 sq. ft. No. and Description of

Safety valves to each boiler Double Spring Area of each valve 5.93 sq. in. Pressure to which they are adjusted 125

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 6-0 Mean dia. of boilers 12-0 3/16 Length 10-6

Material of shell plates S Thickness 13/16 Range of tensile strength 28/32 Are the shell plates welded or flanged

Description of riveting: cir. seams DR. long. seams 9R. 10R. Diameter of rivet holes in long. seams 1/8 Pitch of rivets 5 1/8

Lap of plates or width of butt straps 10 1/2 Per centages of strength of longitudinal joint plate 78.04 Working pressure of shell by

Rules 142 Size of manhole in shell 16 x 12 Size of compensating ring 6 x 7 1/8 No. and Description of Furnaces in each

Boiler 2 Main Material S Outside diameter 3.49 1/16 Length of plain part top 6-4 7/16 Thickness of plates crown 5 1/8 bottom 6-9

Description of longitudinal joint weld. No. of strengthening rings Working pressure of furnace by the rules 122 Combustion chamber

Plates: Material S Thickness: Sides 9/16 Back 9/32 Top 9/16 Bottom 23/32 Pitch of stays to ditto: Sides 8 1/4 x 9 3/4 Back 10 x 9 5/8

Top 8 1/2 x 9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 128 Material of stays S Diameter at

Smallest part 1.476 1/98 Area supported by each stay 95.0 Working pressure by rules 140 End plates in steam space: Material S Thickness 29/32

Pitch of stays 18 x 16 How are stays secured DN Working pressure by rules 128 Material of stays S Diameter at smallest part 3.437

Area supported by each stay 288 Working pressure by rules 123 Material of Front plates at bottom S Thickness 13/16 Material of

Lower back plate S Thickness 23/32 Greatest pitch of stays 14 1/4 x 9 1/2 Working pressure of plate by rules 129 Diameter of tubes 3

Pitch of tubes 4 1/4 x 4 1/4 Material of tube plates S Thickness: Front 13/16 Back 23/32 Mean pitch of stays 10.62 Pitch across wide

water spaces 14 Working pressures by rules 121 Girders to Chamber tops: Material Iron Depth and thickness of

girder at centre 8 x 7 1/8 (2) Length as per rule 2-10 1/2 Distance apart 9 1/4 Number and pitch of Stays in each 3 at 8 5/8

Working pressure by rules 148 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

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

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

DUNSMUIR & JACKSON, Limited.
(The foregoing is a correct description,
James Fletcher Director Manufacturer.)

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

Dates of Survey During progress of work in shops - - -
while building During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plans & the workmanship & material are of good quality.

This Report accompanies trial of the Machinery

Survey Fee ... £ ... When applied for, 191
Travelling Expenses (if any) ... £ ... When received, 191

W. Gordon-Mitchell
Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6 - FEB. 1917
Assigned See accompanying machinery report.

FRI. SEP. 7 1917.
FRI. NOV. 9 1917.
TUE. 9 APR. 1918.
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