

REPORT ON BOILERS.

No. 34446

Received at London Office

WED. OCT. -7. 1914

Date of writing Report 25-9-1914 When handed in at Local Office 101 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 17/3/14 Last Survey 24/9/14 1914

Reg. Book. on the (Number of Visits 23) Gross Tons Net

Master Built at Bowling By whom built Scott, Son (256) When built 1914

Engines made at Glasgow By whom made Aitchison, Blair & Co (91) When made 1914

Boilers made at ditto By whom made Dunsmuir, Jackson & Co (1331) When made 1914

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel Steel Co of Scotland

(Letter for record S /) Total Heating Surface of Boilers 1938 sq ft Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 24-9-14

No. of Certificate 12880 Can each boiler be worked separately Area of fire grate in each boiler 60.5 sq ft No. and Description of safety valves to each boiler

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 Mean dia. of boilers 14-10 3/16" Length 10-6"

Material of shell plates S Thickness 3/16" Range of tensile strength 28/32 Are the shell plates welded or flanged

Descrip. of riveting: cir. seams DR long. seams TR, DBS Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/4"

Top of plates or width of butt straps 1-6 7/8" Per centages of strength of longitudinal joint rivets 87.75% plate 85.75% Working pressure of shell by rules 181. Size of manhole in shell 16x12" Size of compensating ring McNeil No. and Description of Furnaces in each boiler 3 corrugated Material S Outside diameter 3-10" Length of plain part top bottom Thickness of plates crown bottom 9 1/16"

Description of longitudinal joint mild No. of strengthening rings Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 7/8" Pitch of stays to ditto: Sides 9 1/8" x 9" Back 9 1/2" x 9 1/2" area

Top 9 1/8" x 9" Area supported by each stay 90" Working pressure by rules 182 Material of stays S Diameter at smallest part 1 1/4" Working pressure by rules 195 End plates in steam space: Material S Thickness 1 1/4" Diameter at smallest part 6-9"

Pitch of stays 1 1/2" x 20 1/4" How are stays secured DN Working pressure by rules 194 Material of stays S area Diameter at smallest part 6-9"

Area supported by each stay 35 1/2" Working pressure by rules 199 Material of Front plates at bottom S Thickness 1 1/4" Material of Lower back plate S Thickness 29/32" Greatest pitch of stays 14 1/2" x 9 1/2" Working pressure of plate by rules 200 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 9/16" Material of tube plates S Thickness: Front 1 1/4" Back 1 3/16" Mean pitch of stays 11 3/8" Pitch across wide water spaces 14 1/4" Working pressures by rules 191 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 9 x 7 1/8" (2) Length as per rule 2-9 2-7 1/2" Distance apart 9" Number and pitch of Stays in each 2 at 9 1/8"

Working pressure by rules 185 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 8 3/4"

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

Survey request form No. 1424 attached

The foregoing is a correct description, DUNSMUIR & JACKSON, Limited, Director. Manufacturer.

Dates of Survey During progress of 1914 March 17-31 April 8-24-29 May 11-22 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel 29 June 9-18-30 July 29 Aug 3-6-13-17-24 Sept 3-10-14 Total No. of visits 23

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. This boiler will be fitted on board at Glasgow on a duplicate of B 8. 1014

Survey Fee ... £ 6 : 9 : When applied for, 5/10/14 1914

Travelling Expenses (if any) £ : : When received, 7/10/14 1914

W. Gordon Muirhead Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW - 6 OCT. 1914

Assigned TRANSMIT TO LONDON See minute on G. R. P. No. 34713

Lloyd's Register Foundation

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