

REPORT ON BOILERS.

No. 31910.

WED. OCT. -9. 1912

Received at London Office

Date of writing Report

191

When handed in at Local Office

4.10. 1912 Port of Glasgow

No. in Survey held at Reg. Book.

Glasgow

Date, First Survey

12. 2. 12

Last Survey

2. 10. 1912

on the

S/S "Diplomat"

(Number of Visits 49)

Gross Tons

7615

Net Tons

4873

Master

Thomson

Built at

Glasgow

By whom built

C. Coumell & Co Ltd

When built

1912

Engines made at

Glasgow

By whom made

Dunsmuir Jackson & Co (H11)

When made

1912

Boilers made at

ditto

By whom made

ditto

When made

1912

Registered Horse Power

Owners

J. J. Harrison

Port belonging to

Liverpool

MULTITUBULAR BOILERS ~~OR~~ AUXILIARY ~~OR~~ ~~BOILER~~ - Manufacturers of Steel ~~Steel Co of Scotland~~ Colwell

(Letter for record S) Total Heating Surface of Boilers 2383 ^{sq ft} Is forced draft fitted No No. and Description of Boilers one Single Ended Working Pressure 215 Tested by hydraulic pressure to 430 Date of test 30.7.12

No. of Certificate 11702 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.25 ^{sq ft} No. and Description of safety valves to each boiler 2 Direct Spring Area of each valve 707 ^{sq in} Pressure to which they are adjusted 220

Are they fitted with easing gear Yes 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 12" Mean dia. of boilers 15.10 5/8" Length 10'-6"

Material of shell plates S Thickness 1 5/8" Range of tensile strength 30/32 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 5/8" Pitch of rivets 10 3/8"

rip of plates or width of butt straps 24" Per centages of strength of longitudinal joint rivets 85. plate 84.3 % Working pressure of shell by rules 230 Size of manhole in shell 16 x 12 Size of compensating ring McNeil No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 4'-0" Length of plain part top 23 1/2" bottom 13 1/2" Thickness of plates crown 23 1/2" bottom 13 1/2"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 245 Combustion chamber plates: Material S Thickness: Sides 23/32 Back 1 1/16" Top 23/32 Bottom 1 3/32 Pitch of stays to ditto: Sides 9 1/8 x 7 1/8 Back 8 1/2 x 8 1/2

Top 9 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 220 Material of stays S ~~at~~ area at smallest part 1.985 Area supported by each stay 7.25 Working pressure by rules 240 End plates in steam space: Material S Thickness 1 1/4"

Pitch of stays 19 1/4 x 16 How are stays secured D IV Working pressure by rules 228 Material of stays S ~~at~~ area at smallest part 7.49

Area supported by each stay 307 Working pressure by rules 250 Material of Front plates at bottom S Thickness 1 1/8" Material of Lower back plate S Thickness 1 1/32 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 234 Diameter of tubes 3"

Pitch of tubes 4 1/4 x 4 3/8 Material of tube plates S Thickness: Front 1 1/8" Back 29/32 Mean pitch of stays 10 3/4 Pitch across wide water spaces 14 Working pressures by rules 221 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 9 x 7 1/8 (2) Length as per rule 2.7 Distance apart 9 Number and pitch of Stays in each 3 at 7 1/2

Working pressure by rules 231 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

The For DUNSMUIR & JACKSON, LONDON, is a correct description, James Fletcher, Manufacturer.

Dates of Survey During progress of work in shops - - See accompanying reports Is the approved plan of boiler forwarded herewith Yes

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

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 Report accompanies trial of the Machinery.

Survey Fee Charged on Machy Rept. : When applied for, 191

Travelling Expenses (if any) £ : When received, 191

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

Committee's Minute GLASGOW 9-OCT. 1912

Assigned See minute on accompanying machinery report.

Lloyd's Register Foundation

W 947-5079