

## REPORT ON BOILERS.

No.

WED. AUG. 19, 1914

Date of writing Report 10/8/14 When handed in at Local Office 14.8.14 Port of GLASGOW  
 No. in Survey held at Glasgow Date, First Survey 31.3.14 Last Survey 6.8.1914  
 Reg. Book. S/S RAVEN (Number of Visits 15) Tons } Gross  
 on the Net

Master Built at Troon By whom built Auba & Co. Ltd. 288 When built  
 Engines made at Troon By whom made Auba & Co. Ltd. (45) When made 1914  
 Boilers made at Glasgow By whom made Dunsmuir & Jackson Ltd. 1329 When made 1914  
 Registered Horse Power Owners General M. Mac Co Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co. & Spencer Ltd.

(Letter for record S) Total Heating Surface of Boilers 4516 Is forced draft fitted No No. and Description of

Boilers 2 Single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 6.8.14

No. of Certificate 12830 Can each boiler be worked separately Area of fire grate in each boiler 63 1/4 No. and Description of

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

Are they fitted with casing 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 15.4 7/32 Length 11.6

Material of shell plates S Thickness 17/32 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 19/32 Pitch of rivets 9

Top of plates or width of butt straps 1.4 3/8 Per centages of strength of longitudinal joint rivets 87.25 Working pressure of shell by plate 85.45

rules 181 Size of manhole in shell 16 x 12 Size of compensating ring DN No. and Description of Furnaces in each

boiler 3 Corrugated Material S Outside diameter 4.1 1/2 Length of plain part top Thickness of plates crown 17/32 bottom

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 181 Combustion chamber

plates: Material S Thickness: Sides 5/8 Back 11/16 Top 5/8 Bottom 29/32 Pitch of stays to ditto: Sides 8 1/4 x 9 Back 9 1/2 x 9 1/4

Top 8 1/2 x 8 3/4 stays are fitted with nuts or riveted heads DN Working pressure by rules 188 Material of stays S Diameter at

smallest part 9 1/8 supported by each stay 87.7 Working pressure by rules 205 End plates in steam space: Material S Thickness 17/32 area

Pitch of stays 14 + 20 3/4 How are stays secured DN Working pressure by rules 185 Material of stays S Diameter at smallest part 6.33

Area supported by each stay 352.75 Working pressure by rules 183 Material of Front plates at bottom S Thickness 17/32 Material of

Lower back plate S Thickness 29/32 Greatest pitch of stays 15 x 9 1/4 Working pressure of plate by rules 219 Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 1/16 Material of tube plates S Thickness: Front 17/32 Back 27/32 Mean pitch of stays 11 3/4 Pitch across wide

water spaces 14 1/2 Working pressures by rules 183 Girders to Chamber tops: Material Iron Depth and thickness of

girder at centre 9 x 1 (2) Length as per rule 2 - 10 1/16 Distance apart 8 3/4 Number and pitch of Stays in each 3 at 8 1/2

Working pressure by rules 187 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 casing gear

Survey request form DUNSMUIR & JACKSON, Limited.

No. 1422 attached The foregoing is a correct description,

James McKie Director. Manufacturer.

Dates of Survey During progress of 1914. Jan 31. Apr 8. 24. 29. May 11. 22. 29. Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel June 9. 18. 30. July 6. 29. Aug 5. 6. Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built

under Special Survey in accordance with the approved plan

the workmanship & material are of good quality

These Boilers will be shipped to Troon at which port they

will be fitted on board

Survey Fee ... £ 11 : 14 : When applied for, 20.8.1914

Travelling Expenses (if any) £ : : When received, 22.8.1914

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

Committee's Minute GLASGOW 18 AUG. 1914

Assigned TRANSMIT TO LONDON

See minute on Glasgow Report No. 34479.

W593-0125

Lloyd's Register Foundation