

REPORT ON BOILERS.

No 28153.

Received at London Office **5 OCT 1909**

Date of writing Report **25.8.09** When handed in at Local Office **2/10/09** Port of **Glasgow**
 No. in Survey held at **Glasgow** Date, First Survey **13th May 1909** Last Survey **13th Aug 1909**
 Reg. Book. **5/5** Laverock. (Number of Visits) Gross **199.39**
 17 Sub on the Tons Net **263.77**
 Master **J.H. Ferris** Built at **Troon** By whom built **Ailsa S B Co Ltd** When built **1909**
 Engines made at **Troon** By whom made **Ailsa S B Co Ltd** when made **1909**
 Boilers made at **Glasgow** By whom made **Dunsmuir Jackson L^d (352)** when made **1909**
 Registered Horse Power Owners **General Steam Nav. Co Ltd** Port belonging to **London**
Steel Co of Scotland
Robb & Co Ltd

MULTITUBULAR BOILERS—MAIN, ~~XXXXXXXXXXXX~~—Manufacturers of Steel

(Letter for record (S) Total Heating Surface of Boilers **4180** Is forced draft fitted **Yes** No. and Description of Boilers **2 Single Ended** Working Pressure **170** Tested by hydraulic pressure to **340** Date of test **9-8-09**

No. of Certificate **10072** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **58 1/4** No. and Description of safety valves to each boiler

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 **14 1/8"** Mean dia. of boilers **11-6"** Length **11-6"**

Material of shell plates **S** Thickness **1 1/8"** Range of tensile strength **28/32** Are the shell plates welded or flanged **Yes**

Descrip. of riveting: cir. seams **DR** long. seams **TR, DBS** Diameter of rivet holes in long. seams **13/16"** Pitch of rivets **8 1/4"**

width of butt straps **1-5 7/8"** Per centages of strength of longitudinal joint rivets **88-5** Working pressure of shell by plate **85-6**

rules **172** Size of manhole in shell **16 x 12"** Size of compensating ring **80 lbs** No. and Description of Furnaces in each boiler **3 Corrugated** Material **S** Outside diameter **3-10"** Length of plain part **1 1/2"** Thickness of plates crown **1 1/2"** bottom **1 1/2"**

Description of longitudinal joint **weld** No. of strengthening rings **1** Working pressure of furnace by the rules **175** Combustion chamber plates: Material **S** Thickness: Sides **19/32"** Back **5/8"** Top **19/32"** Bottom **7/8"** Pitch of stays to ditto: Sides **8 1/2"** Back **8 3/4"** area

Top **8 1/2"** If stays are fitted with nuts or riveted heads **Yes** Working pressure by rules **176** Material of stays **S** Diameter at smallest part **1 1/2"** area supported by each stay **76-5** Working pressure by rules **184** End plates in steam space: Material **S** Thickness **1 3/32"** area

Pitch of stays **1 1/4"** How are stays secured **DN** Working pressure by rules **179** Material of stays **S** Diameter at smallest part **5-26"** area

Area supported by each stay **315** Working pressure by rules **183** Material of Front plates at bottom **S** Thickness **1 1/2"** Material of Lower back plate **S** Thickness **7/8"** Greatest pitch of stays **25** Working pressure of plate by rules **179** Diameter of tubes **3 3/4"**

Pitch of tubes **4 1/16 x 5"** Material of tube plates **S** Thickness: Front **1 1/2"** Back **7/8"** Mean pitch of stays **all 1 1/2"** Pitch across wide water spaces **14 3/4"** Working pressures by rules **186** Girders to Chamber tops: Material **Iron** Depth and thickness of girder at centre **9 x 1" (2)** Length as per rule **36" 34 1/2"** Distance apart **8 1/2"** Number and pitch of Stays in each **3 at 8 1/2"**

Working pressure by rules **191** 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

Survey request form No **205** attached
 The foregoing is a correct description, for **DUNSMUIR & JACKSON, Limited** Manufacturer.
James Hetherington

Dates of Survey while building During progress of work in shops -- **1909. May 13. 19. 26. June 2. 11. 10. 21. 24.** Is the approved plan of boiler forwarded herewith **Yes**
 During erection on board vessel -- **30. July 5. 9. 30. Aug 3. 6. 9. 13** Total No. of visits **16.**

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. These boilers have been shipped to Troon at which Port they are to be fitted on board.**

Survey Fee ... £ **Fee charged** When applied for. **19**
 Travelling Expenses (if any) £ **on Mackay's acct.** When received. **19**
W. Gordon Murchie
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **GLASGOW 5 OCT. 1909**
 Assigned **See minute to accompanying machinery report.**

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