

REPORT ON BOILERS.

Ala No 11819.
No. 35876.

Received at London Office WED. 22 MAR. 1916

Date of writing Report 1915 When handed in at Local Office 1915 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 12/3/15 Last Survey 21/12/ 1915
 Reg. Book. on the S.S. "Vale of Forth" (Number of Visits 8) Gross 226.
 Master Built at Aberdeen By whom built J. Guthrie & Co 419. When built 1916.
 Engines made at Boatbridge By whom made W. Beardsmore & Co 450. When made 1916.
 Boilers made at Glasgow By whom made D. Rowan & Co (B226) When made 1915
 Registered Horse Power 41. Owners Vale of Leven Steam Fishing Co Ltd. Port belonging to Aberdeen.

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel James Dunlop & Co Ltd

Number for record 1333 Total Heating Surface of Boilers 1250 Is forced draft fitted 710 No. and Description of Boilers 1 single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 13/12/15

Number of Certificate 13301 Can each boiler be worked separately Area of fire grate in each boiler 38 sq ft No. and Description of Valves to each boiler Pressure to which they are adjusted

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 12'-6" Length 10'-3"

Material of shell plates steel Thickness 1 3/32" Range of tensile strength 28 to 32 Are the shell plates welded or flanged 700

Direction of riveting: cir. seams Lap double long. seams butt triple Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 7.8125"

Width of plates or width of butt straps 17 1/2" Per centages of strength of longitudinal joint rivets 101.5 Working pressure of shell by plate 84.8

Size of manhole in shell 16" x 12" Size of compensating ring 27 1/2" x 31 1/2" No. and Description of Furnaces in each

3 plain Material steel Outside diameter 39 3/8" Length of plain part top 6'-3" Thickness of plates crown 2 5/8" bottom 4"

Description of longitudinal joint welded No. of strengthening rings per part Working pressure of furnace by the rules 200 Combustion chamber

Material steel Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 2 1/32" Pitch of stays to ditto: Sides 9 3/4" x 8" Back 8" x 9 3/4"

If stays are fitted with nuts or riveted heads Working pressure by rules 188 Material of stays steel Diameter at

smallest part 1.76 Area supported by each stay 78 sq in Working pressure by rules 181 End plates in steam space: Material steel Thickness 1 9/32"

of stays 23" x 17" How are stays secured 2 nuts Working pressure by rules 180 Material of stays steel Diameter at smallest part 7.06

supported by each stay 391 sq in Working pressure by rules 188 Material of Front plates at bottom steel Thickness 2 5/8" Material of

back plate steel Thickness 2 5/32" Greatest pitch of stays 12 3/4" Working pressure of plate by rules 187 Diameter of tubes 3 1/2"

of tubes 4 1/8" x 4 3/4" Material of tube plates steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 10 12/32" Pitch across wide

spaces 18 1/2" Working pressures by rules 183 Girders to Chamber tops: Material steel Depth and thickness of

at centre 7 3/4" x 3/4" double Length as per rule 30 1/2" Distance apart 8" Number and pitch of Stays in each (2) 9 3/4"

Working pressure by rules 190 Superheater or Steam chest; how connected to boiler 220 Can the superheater be shut off and the boiler worked

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

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

Reinforced 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 The foregoing is a correct description, for David Rowan & Co Manufacturer.

No. 1613 attached Total No. of visits 8

During progress of 1915: Feb 12, May 11, July 29, Oct 25, Nov 2, Dec 3, 1915 as the approved plan of boiler forwarded herewith Yes

During erection on board vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built

under special survey the materials and workmanship are of good description.

Boiler has now been forwarded to Aberdeen to be fitted on board vessel. Boiler fitted on board above named vessel, for recommendation of class. See

changed on machinery report. Mach Dept No 35686. R. Howell.

Survey Fee £ : : When applied for, 191

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

Shipping. A.M. Leand Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 21 MAR. 1916 FRI. 31 MAR. 1916

signed TRANSMIT TO LONDON See minute book No. 11819

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