

Rpt. 5a.

REPORT ON BOILERS

No. 37497

WED. 20 FEB. 1918

Received at London Office

Date of writing Report 12.2.1918 When handed in at Local Office 101 Port of Aberdeen
No. in Survey held at Paisley Date, First Survey 2.4.17. Last Survey 13-2.1918
Reg. Book. on the SS "Adrix" (Number of Visits 23) Gross Tons Net
Master Built at Aberdeen By whom built John Lewis & Sons Ltd 54 When built 1919
Engines made at Aberdeen By whom made John Lewis & Sons No 119 When made 1919
Boilers made at Paisley By whom made J. F. Craig & Co Ltd (600) When made 1918
Registered Horse Power Owners R. Rice Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville & Sons Ltd Motherwell

(Letter for record S) Total Heating Surface of Boilers 1894 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 13.2.18

No. of Certificate 14184 Can each boiler be worked separately Area of fire grate in each boiler 54 sq ft No. and Description of safety valves to each boiler Area of each valve 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

Smallest distance between boilers or uptakes and bunkers or woodwork Natural Mean dia. of boilers 13.9" Length 10.6"

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

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

Length of butt straps 14 3/8" Per centages of strength of longitudinal joint rivets 88.4 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 9 1/2" x 9 1/2"

No. and Description of Furnaces in each boiler 3 main Material S Outside diameter 40 3/4" Length of plain part top 6.8" bottom 7.1" Thickness of plates crown 25/32" bottom 25/32"

Description of longitudinal joint weld No. of strengthening rings one Working pressure of furnace by the rules 185 Combustion chamber plates: Material S Thickness: Sides 25/32" Back 1 1/16" Top 25/32" Bottom 25/32" Pitch of stays to ditto: Sides 9 1/4" x 9 1/4" Back 9 1/4" x 9 1/4"

Top 9 1/4" x 11 1/2" If stays are fitted with nuts or riveted heads DN Working pressure by rules 185 Material of stays S Diameter at smallest part 2.07" Area supported by each stay 88.36 sq in Working pressure by rules 194 End plates in steam space: Material S Thickness 13/16"

Pitch of stays 19 1/2" x 18 1/2" How are stays secured DN & W Working pressure by rules 183 Material of stays S Diameter at smallest part 6.33"

Area supported by each stay 360 sq in Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 1/2" Material of Lower back plate S Thickness 13/16" Greatest pitch of stays 14 1/4" x 7 1/4" Working pressure of plate by rules 206 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates S Thickness: Front 1 1/32" Back 1 1/16" Mean pitch of stays 8.87" Pitch across wide water spaces 14 1/2" Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 1/2" x 8 (2) Length as per rule 29 1/8" Distance apart 11 1/2" Number and pitch of Stays in each 2 at 9 1/4"

Working pressure by rules 205 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 SURVEY 10711

No. 1979 attached

The foregoing is a correct description,

A. F. CRAIG & CO. LTD.

Inspector F. Mackintosh Manufacturer.

Dates of Survey During progress of 1917 Apr 2-24 May 2-4 22-31 June 14 July 10-19 Aug 6. Is the approved plan of boiler forwarded herewith Yes
while work in shops - - -
building During erection on Sept 6-21 Oct 3-23 Nov 1-4 16-22 Dec 13. 1918 Jan 14-28 Feb 1-11 Total No. of visits 23.
board vessel - - -

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 is being shipped to Aberdeen at which port it will be fitted on board. Now fitted on board above named vessel for recommendation of class See Abn 56 Rpt on Machinery No 12197.

Survey Fee £ 6.6. : When applied for, 191
Travelling Expenses (if any) £ : : When received, 191

Committee's Minute GLASGOW

Assigned

TRANSMIT TO LONDON

FRI. 4-APR. 1919



Lloyd's Register Foundation

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