

REPORT ON BOILERS.

No. 37968.

Received at London Office

JUL 24 1918

Date of writing Report 16th July 1918 When handed in at Local Office Glasgow Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 13/9/17 Last Survey 8th July 1918
 Reg. Book. S.S. Humphrey (Number of Visits 63) Gross Tons Net
 on the Marine Boiler designated No 3649 for Admiralty Strathclyde Trawler Tons Net
 Master ROBERT FAIRCLOUGH By whom built Roberts & Mitchell No 1441 When built 1918
 Built at Glasgow By whom made James Neilson & Son Ltd When made 1918
 Engines made at Glasgow By whom made James Neilson & Son Ltd When made 1918
 Boilers made at Glasgow By whom made James Neilson & Son Ltd When made 1918
 Registered Horse Power Owners Port belonging to Steel Coy of Scotland

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland

(Letter for record (S)) Total Heating Surface of Boilers 1347 sq ft Is forced draft fitted No No. and Description of Boilers One Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 8/5/18

No. of Certificate 14267 Can each boiler be worked separately One Area of fire grate in each boiler 395 sq ft No. and Description of safety valves to each boiler One 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

Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 12'-6" Length 10'-0"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 28/32 Are the shell plates welded or flanged No

Strip. of riveting: cir. seams Lap & R long. seams Tip Riv Bulbs Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7/8"

Width of butt straps 16 1/4" Per centages of strength of longitudinal joint 85.5 Working pressure of shell by 181 lbs

Size of manhole in shell 16" x 12" Size of compensating ring 8" x 1" No. and Description of Furnaces in each Three plain

Material Steel Outside diameter 3'-0 1/2" Length of plain part 6'-6" Thickness of plates 3 3/4"

Description of longitudinal joint held No. of strengthening rings 189 lbs Working pressure of furnace by the rules 189 lbs Combustion chamber

Material Steel Thickness: Sides 7/8" Back 7/8" Top 7/8" Bottom 7/8" Pitch of stays to ditto: Sides 9" x 8" Back 9" x 8"

Ends 9 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads Lugs Working pressure by rules 186 lbs Material of stays Steel Diameter at

Best part 17 3/4" x 18" Area supported by each stay 724 sq in Working pressure by rules 190 lbs End plates in steam space: Material Steel Thickness 1 1/8"

of stays 18" x 18" How are stays secured Stays drawn Working pressure by rules 185 lbs Material of stays Steel Diameter at smallest part 6 1/4"

Supported by each stay 324 sq in Working pressure by rules 185 lbs Material of Front plates at bottom Steel Thickness 1" Material of

Back plate Steel Thickness 7/16" Greatest pitch of stays 1 1/4" x 8" Working pressure of plate by rules 260 lbs Diameter of tubes 3 1/2"

of tubes 4 1/2" x 4 3/4" Material of tube plates Steel Thickness: Front 1" Back 7/16" Mean pitch of stays 10 1/4" Pitch across wide

spaces 1 1/4" Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and thickness of

at centre 7 1/4" x 7 1/8" x 2 Length as per rule 28 1/2" Distance apart 9 1/2" Number and pitch of Stays in each 10 at 8 1/2"

ing pressure by rules 180 lbs Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

ely 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

ned with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

g pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
For JAMES NEILSON & SON, Ltd. Manufacturer.

Arch. Galloway

request form

002 attached

Is the approved plan of boiler forwarded herewith Yes
 During progress of 1917 Sept. 13-14-21-25-28 Oct. 2-8-11-16-17-19-22-24-29 Nov. 5-8-14-16 Is the approved plan of boiler forwarded herewith Yes
 work in shops - 19-23-27-30 Dec. 6-10-12-18-20-21-24-26-28-31 Jan. 10-14-23
 During erection on 1-5-6-11-14-21-23-28 Feb. 4-11-13-15-20-22-26-28 Apr. 3-6-9 Total No. of visits 63
 board vessel - 12-16-18-22-25-30 May 4-8 Jun. 24 July 8

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)

The boiler has been built under
 al survey. The workmanship and material is good.
 boiler is being sent to Chester.

Expenses (if any) £ 6 : 2 :

When applied for, 19/7/18

When received, 25/7/18

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

Committee's Minute

GLASGOW. 23 JUL 1918

FRI. 27 OCT. 1922

Assigned

TRANSMIT TO LONDON

Lloyd's Register
Foundation

002690-002700-0430