

# REPORT ON BOILERS.

1912 No. 34750.

Received at London Office

of writing Report

191 When handed in at Local Office

16.8. 1912 Port of Glasgow

Survey held at Glasgow

Date, First Survey 8.1.12 Last Survey 1.8.1912

on the Boiler No. 3226

S.S. "FERRIC"

(Number of Visits 17) Gross Tons Net

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at Glasgow

By whom made James Neilson & Son Ltd

When made 1912

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Mait & Co of Scotland

Number for record (5) Total Heating Surface of Boilers 926 Is forced draft fitted No. and Description of

Boilers One single ended Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 1/8/12

Number of Certificate 11706 Can each boiler be worked separately Area of fire grate in each boiler 31 1/2 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 Mean dia. of boilers 10' 3" Length 9' 6"

Material of shell plates Steel Thickness 11/16 Range of tensile strength 28 to 32 Are the shell plates welded or flanged No

Description of riveting: cir. seams D. R. L. long. seams D. B. S. Diameter of rivet holes in long. seams 7/16 Pitch of rivets 5 1/4

Width of plates or width of butt straps 10 Per centages of strength of longitudinal joint rivets 85.3 Working pressure of shell by plate 82.14

No. 132 Size of manhole in shell 16 x 12 Size of compensating ring 7 x 11/16 No. and Description of Furnaces in each

Boiler 2 plain Material Steel Outside diameter 37 Length of plain part top 72 Thickness of plates crown 9/16 bottom

Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 130 Combustion chamber

Material: Material Steel Thickness: Sides 9/16 Back 9/16 Top 1/2 Bottom 9/16 Pitch of stays to ditto: Sides 7 1/2 x 10 Back 9 1/2 x 8 3/4

7 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 131 Material of stays Steel Diameter at

Smallest part 1.5 Area supported by each stay 83 Working pressure by rules 145 End plates in steam space: Material Steel Thickness 3/4

Area of stays 13 3/4 x 12 How are stays secured D. nuts Working pressure by rules 130 Material of stays Steel Diameter at smallest part 2.36

Area supported by each stay 170 Working pressure by rules 144 Material of Front plates at bottom Steel Thickness 3/4 Material of

Over back plate Steel Thickness 3/4 Greatest pitch of stays 12 x 8 3/4 Working pressure of plate by rules 150 Diameter of tubes 3 1/2

Area of tubes 4 1/2 x 4 9/16 Material of tube plates Steel Thickness: Front 3/4 Back 11/16 Mean pitch of stays 11.35 Pitch across wide

Inter spaces 13 1/2 Working pressures by rules 130 Girders to Chamber tops: Material Steel Depth and thickness of

Boiler at centre 6 x 1 1/8 Length as per rule 2.2 Distance apart 7 Number and pitch of Stays in each 2 - 8 1/4

Working pressure by rules 130 Superheater or Steam chest: how connected to boiler none 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

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

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

The foregoing is a correct description,

For JAMES NEILSON & SON, LTD.

Arch. Tollock

Manufacturer.

Dates During progress of work in shops: 1912 Jan. 8. 20. Feb. 1. 2. 10. 20. Mar. 4. 18. Is the approved plan of boiler forwarded herewith Yes

while During erection on board vessel: 27. April 12. 16. 20. May 31. June 10. Total No. of visits 17.

July 6. Aug. 1.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey & is of good materials & workmanship. It is to the order of Messrs. Plenty & Co., Newbury.

Survey Fee ... £ 3 : 2 : When applied for, 13/8/1912.

Travelling Expenses (if any) £ : : When received, 15/8/1912.

Committee's Minute

GLASGOW

20 AUG. 1912

Assigned Transmit to London.

H. Gardner-Smith  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.  
FRI. DEC. 20. 1912

Lloyd's Register  
Foundation

002385-002400-0078