

REPORT ON BOILERS.

No. 50023

Received at London Office 15 JAN 1930

Date of writing Report

When handed in at Local Office

11. 1. 1930 Port of Glasgow

No. in Reg. Book

Glasgow

Date, First Survey

21. 5. 29

Last Survey

26. 12. 1929

(Number of Visits

9)

Gross

827

Net

410

SS NEW PARK

Master

Built at

Bowling

By whom built

Scott & Son

Yard No. 309

When built 1929

Engines made at

Colchester

By whom made

Davey Laxman & Co

Engine No. 13752

When made 1920

Boilers made at

Glasgow

By whom made

Davis Rowan & Co Ltd

Boiler No. 372

When made 1929

Nominal Horse Power

Owners

John Stewart & Co

Port belonging to

Glasgow

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The steel company of Scotland Ltd. The Scottish Iron & Steel Co. Ltd. (Letter for Record 5)

Total Heating Surface of Boilers 2102 sq ft Is forced draught fitted no Coal or Oil fired coal Working Pressure 180

No. and Description of Boilers one single ended

Tested by hydraulic pressure to 320 Date of test 26-12-29 No. of Certificate 18569 Can each boiler be worked separately -

Area of Firegrate in each Boiler 59 sq ft No. and Description of safety valves to each boiler Two direct spring

Area of each set of valves per boiler (per Rule 13.47 sq ft as fitted 14.12 sq ft) Pressure to which they are adjusted - 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 - Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated -

Largest internal dia. of boilers 15'-0" Length 10'-6" Shell plates: Material steel Tensile strength 28-32 tons

Thickness 1 1/32" Are the shell plates welded or flanged no Description of riveting: circ. seams end WR inter. -

long. seams WBS TR Diameter of rivet holes in circ. seams F 1 3/16" B 1 1/2" Pitch of rivets F 3.2" B 3.41" 8 1/16"

Percentage of strength of circ. end seams (plate F 62.9 B 64 rivets F 46.7 B 47.7) Percentage of strength of circ. intermediate seam (plate rivets)

Percentage of strength of longitudinal joint (plate 86.01 rivets 86.8 combined 89.4) Working pressure of shell by Rules 180

Thickness of butt straps (outer 29" inner 1 1/32") No. and Description of Furnaces in each Boiler Three Weighton

Material steel Tensile strength 26-30 tons Smallest outside diameter 43.84"

Length of plain part (top bottom) Thickness of plates (top bottom) 35/64" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c/c, bottom Working pressure of furnace by Rules 180

End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 1/2" Pitch of stays 20 1/2" x 18 1/2"

How are stays secured WN steel Working pressure by Rules 188

Tube plates: Material (front back) steel Tensile strength (front back) 26-30 tons Thickness (front back) 27/32 47/64 Working pressure (front back) 181 183

Mean pitch of stay tubes in nests 10.25 Pitch across wide water spaces 13 7/8 Working pressure 182

Girders to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder

at centre 2 @ 7 5/8" x 7/8" Length as per Rule 32.6" Distance apart 9 1/8" No. and pitch of stays

in each 2 @ 10 3/8" Working pressure by Rules 182 Combustion chamber plates: Material steel

Tensile strength 26-30 tons Thickness: Sides 45/64" Back 21/32" Top 45/64" Bottom 45/64"

Pitch of stays to ditto: Sides 10 3/8" x 9 1/8" Back 9 1/2" x 8 3/4" Top 10 3/8" x 9 1/8" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 181 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 27/32 Lower back plate: Material steel Tensile strength 26-30 tons Thickness 3/4"

Pitch of stays at wide water space 13 1/8" Are stays fitted with nuts or riveted over nuts

Working Pressure 182 Main stays: Material steel Tensile strength 28-32 tons

Diameter (At body of stay, or Over threads) 3" & 2 3/4" No. of threads per inch 6 Area supported by each stay 3948 354 sq in

Working pressure by Rules 184 Screw stays: Material steel Tensile strength 26-30 tons

Diameter (At turned off part, or Over threads) 1 5/8" No. of threads per inch 9 Area supported by each stay 810 sq in

22002

Working pressure by Rules 188 Are the stays drilled at the outer ends Margin stays: Diameter At turned off part. Over threads 1 3/4 & 1 7/8

No. of threads per inch 9 Area supported by each stay 99.6 & 109.0" Working pressure by Rules 182 & 195

Tubes: Material Iron External diameter Plain 3 1/4" Thickness 9 W.S. No. of threads per inch 9
Stay 3 1/4" 1/4" 5/16" 3/8"

Pitch of tubes 4 1/2 x 4 3/8 Working pressure by Rules 180 Manhole compensation: Size of opening in end

Shell plate 16 x 12 Section of compensating ring - No. of rivets and diameter of rivet holes -

Outer row rivet pitch at ends - Depth of flange if manhole flanged 4" Steam Dome: Material none

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint Plate Rivets

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

How connected to shell Inner radius of crown Working pressure by Rules

Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater none Manufacturers of Tubes Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
For David Rowan & Co. Ltd. Manufacturer.
Arch. W. Emerson

Dates of Survey: During progress of work in shops - 1929 May 31, June 3, Nov 25
While building: During erection on board vessel - Dec 3, 5, 17, 19, 24, 26

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits 9

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. "Yewvalley" G.R. No. 48429

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

The materials and workmanship are good.

The boiler has been constructed under special survey in accordance with the Rules.

The boiler will be fitted on board at this port.

A.S.
9/11/30

Survey Fee £ 14 : - : When applied for, 11-1-1930

Travelling Expenses (if any) £ : : When received, 14 JAN 1930

L.S. Duns
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 JAN 1930

Assigned TRANSMIT TO LONDON

