

REPORT ON BOILERS.

No. 50772

Received at London Office

420 AUG 1930

8 1/8"
0 & 2

inch

Size of

Survey held at

one

in the

Boiler Power

No. and

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When handed in at Local Office

257/8/10

Port of

Glasgow

Date, First Survey

30/12/29

Last Survey

25-8-1930

(Number of Visits

44)

Gross

3911.05

Tons

Net

2425.31

Built at

Burntisland

By whom built

Burntisland SBC

Yard No.

162

When built

1930

By whom made

Davie Rowan & Co Ltd

Engine No.

933

When made

1930

By whom made

Davie Rowan & Co Ltd

Boiler No.

933

When made

1930

Owners

Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Boilers of Steel Gas Dampers & Co Ltd. W. K. Wirtzgen und Eisenhütten Gesellschaft. W. K. Wirtzgen Letter for Record (S) ✓

Pressing Surface of Boilers 4356 sq ft Is forced draught fitted yes Coal or Oil fired coal

Description of Boilers Two single ended Working Pressure 200

Hydraulic pressure to 350 Date of test 8-7-30 No. of Certificate 18770 Can each boiler be worked separately yes

Regulate in each Boiler 57 1/2 sq ft No. and Description of safety valves to each boiler Two direct spring

Set of valves per boiler per Rule 12.660 Pressure to which they are adjusted 205 lbs Are they fitted with easing gear yes

Donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Distance between boilers or uptakes and bunkers or woodwork 1'-6" Is oil fuel carried in the double bottom under boilers No

Distance between shell of boiler and tank top plating 2'-6" Is the bottom of the boiler insulated yes

Internal dia. of boilers 14'-6" Length 11'-0" Shell plates: Material steel Tensile strength 29-33 tons

Are the shell plates welded or flanged no Description of riveting: circ. seams end DR

UBS TR ✓ Diameter of rivet holes in circ. seams F 13/16 B 19/16 Pitch of rivets F 3.19 B 3.57

of strength of circ. end seams plate F 62.7 B 63.2 long. seams 19/16 9 7/8"

of strength of longitudinal joint plate 85.6 rivets F 44 B 48.2 Percentage of strength of circ. intermediate seam plate

of strength of longitudinal joint combined 88.8 Working pressure of shell by Rules 200

of butt straps outer 15" inner 1 1/2" No. and Description of Furnaces in each Boiler Three Deighton 30"

Steel Tensile strength 26-30 tons Smallest outside diameter 42.94"

plain part top Thickness of plates crown 19/32 Description of longitudinal joint welded

of stiffening rings on furnace or c.c. bottom — Working pressure of furnace by Rules 201

in steam space: Material steel Tensile strength 26-30 tons Thickness 1 3/4" Pitch of stays 17" x 20"

stays secured WN Working pressure by Rules 201

es: Material front steel Tensile strength 26-30 tons Thickness 27/32 23/32

h of stay tubes in nests 9 1/4" Pitch across wide water spaces 13 1/2" Working pressure front 204

combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder back 215

2 @ 7 3/4" x 7/8" Length as per Rule 31.625 Distance apart 8 7/8" No. and pitch of stays

2 @ 10" Working pressure by Rules 206 Combustion chamber plates: Material steel

length 26-30 tons Thickness: Sides 23/32 Back 21/32 Top 23/32 Bottom 23/32

stays to ditto: Sides 10" x 8 7/8" Back 8" x 9 1/4" Top 10" x 8 7/8" Are stays fitted with nuts or riveted over nuts

pressure by Rules 200 Front plate at bottom: Material steel Tensile strength 26-30 tons

27/32 Lower back plate: Material steel Tensile strength 26-30 tons Thickness 25/32

stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over nuts

Pressure 200 Main stays: Material steel Tensile strength 28-32 tons

At body of stay, 3" x 2 3/4" No. of threads per inch 6" Area supported by each stay 3.55 & 3.24 sq ft

Over threads — Screw stays: Material steel Tensile strength 26-30 tons

pressure by Rules 222 & 201 No. of threads per inch 9 Area supported by each stay 74.87 & 106 sq ft

At turned off part, 1 5/8" 1 3/4" 1 7/8"

W210-0036

Working pressure by Rules 206.208.201 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads 13/16 Working pressure by Rules 200

No. of threads per inch 9 Area supported by each stay 917 Thickness { 9/16 7/8 No. of threads per inch 9

Tubes: Material 2in External diameter { Plain 2 1/2 Stay 2 1/2 Working pressure by Rules 230 Manhole compensation: Size of opening in shell plate 19 1/2 x 15 1/2 Section of compensating ring 9 1/2 x 1 1/2 No. of rivets and diameter of rivet holes 34 @ 1 5/16

Pitch of tubes 3 7/8 x 3 3/4 Working pressure by Rules 230 Depth of flange if manhole flanged 3 Steam Dome: Material none

Outer row rivet pitch at ends 9 1/8 Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes 11/16 Pitch of rivets Percentage of strength of joint { Plate Rivets

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

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 186

Type of Superheater none Manufacturers of { Tubes Steel castings Internal diameter and thickness of tubes

Number of elements Material of tubes Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

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

Rules Pressure to which the safety valves are adjusted Working pressure as per 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 yes

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

Dates of Survey { During progress of work in shops - - } See accompanying
while building { During erection on board vessel - - } Recommending
Moody Report

Are the approved plans of boiler and superheater forwarded herewith yes
(If not state date of approval.)
Total No. of visits 444

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The materials and workmanship are good.
The boilers have been constructed under special survey in accordance with the Rules
they have been sent to Burntisland to be fitted in the vessel.

These boilers have been efficiently fitted on board & their safety valves have been adjusted under steam.
John Houston.
Leith 3/10/30.

Survey Fee ... £ See Moody Rpt When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

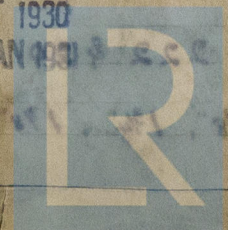
S. Davis.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 26 AUG 1930

Assigned Deferred

TUE. 7 OCT 1930

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Foundation