

REPORT ON BOILERS.

No. 26449

Received at London Office 15 MAR 1951

of writing Report 14th Feb 51 When handed in at Local Office 8-3-51 Port of Glasgow

in Survey held at Glasgow Date, First Survey 18th Sept 1950 Last Survey 6 Feb 51

on the J. P. WEBB (Number of Visits 9)

at P. Glasgow By whom built Ferguson Bros Yard No. 397 When built 1951

nes made at do By whom made do Engine No. 397 When made 1951

rs made at Glasgow By whom made D. Rowan + Co. Ltd Boiler No. 551 When made 1951

nal Horse Power 230 Owners MELBOURNE HARBOUR TRUST COY. LTD Port belonging to MELBOURNE

LTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

facturers of Steel Colvilles Ltd (Letter for Record S)

Heating Surface of Boilers 2765 ϕ Of Superheaters

for Register Book 2765 ϕ Is forced draught fitted yes

nd Description of Boilers 1-S.E. multitubular Coal or Oil fired oil

l by hydraulic pressure to 350psi Date of test 6.2.51 No. of Certificate 23352 Working Pressure 200psi

of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 open spring 111L

of each set of valves per boiler per rule 8.14 as fitted 9.182 Pressure to which they are adjusted 183 Are they fitted with easing gear

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

st distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers No

st distance between shell of boiler and tank top plating Is the bottom of the boiler insulated No

st internal dia. of boilers 16'-3" Length 11'-9" Shell plates: Material Steel Tensile strength 29/33/100

ion welded, state name of welding Firm Have all the requirements of the Rules for Class I vessels

omplied with Thickness 17/16 Are the shell plates welded or flanged No Description of riveting: circ. seams end D.R. lap

ams T.R.O.B.S Diameter of rivet holes in circ. seams Back 1 1/2" front 1 5/16" inter Back 4.06 front 3.3907"

stage of strength of circ. end seams plate 63.1 rivets 48.0 44.0 Percentage of strength of circ. intermediate seam plate 85.0 rivets 91.4

stage of strength of longitudinal joint combined 88.3

ess of butt straps outer 13/32 inner 17/32 No. and Description of Furnaces in each Boiler 3-Deighton

al Steel Tensile strength 26/30 Smallest outside diameter 4'-13/8"

of plain part top Thickness of plates 11/16 Description of longitudinal joint weld

sions of stiffening rings on furnace or c.c. bottom

lates in steam space: Material Steel Tensile strength 26/30 Thickness 1 15/32 Pitch of stays 24 1/4" x 20 1/2"

re stays secured D. Nuts

plates: Material front Steel Tensile strength 26/30 Thickness 29/32 back 13/16

pitch of stay tubes in nests 10 1/2" Pitch across wide water spaces 14"

s to combustion chamber tops: Material Steel Tensile strength 28/32 Depth and thickness of girder

re 2 @ 8 3/8 x 7/8 Length as per Rule 2'-10 1/2" Distance apart 8" No. and pitch of stays

3 @ 8 1/4" strength 26/30 Thickness: Sides 2 1/32 Back 1 1/16 Top 2 1/32 Bottom 13/16

f stays to ditto: Sides 8" x 8 1/4" Back 9 1/2" x 8" Top 8" x 8 1/4" Are stays fitted with nuts or riveted over Nuts

plate at bottom: Material Steel Tensile strength 26/30

ss 29/32 Lower back plate: Material Steel Tensile strength 26/30 Thickness 25/32

Ship stays at wide water space 13 1/2" x 8" Are stays fitted with nuts or riveted over Nuts

tays: Material Steel Tensile strength 28/32

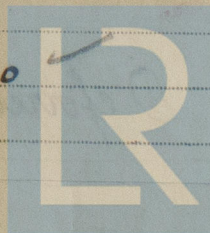
At body of stay 3 1/2" x 3 1/4" No. of threads per inch 6

Over threads 3 3/4" x 3 1/2"

tays: Material Steel Tensile strength 26/30

At turned off part 1 5/8" x 1 7/8" x 2" No. of threads per inch 9

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Are the stays drilled at the outer ends No ✓

Margin stays: Diameter { At turned off part 1 7/8" ✓
or
Over threads 2" ✓

No. of threads per inch 9

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

Pitch of tubes 4 1/4" x 4 1/8" ✓

Manhole compensation: Size of opening 32 1/2" ✓

shell plate 15 1/2" x 19 1/2" Section of compensating ring 1'-5" x 17 1/16" ✓ No. of rivets and diameter of rivet holes 32 2 1/2" ✓

Outer row rivet pitch at ends 10" ✓ Depth of flange if manhole flanged 3" ✓

Steam Dome: Material Nick ✓

Tensile strength 776 Thickness of shell no measurement Description of longitudinal joint no measurement

Diameter of rivet holes 12 1/2" Pitch of rivets 122 Percentage of strength of joint { Plate no measurement
Rivets no measurement

Internal diameter 12 1/2" Thickness of crown no measurement No. and diameter of stays 122 Inner radius of crown no measurement

How connected to shell no measurement Size of doubling plate under dome no measurement Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell no measurement

Type of Superheater Nick Manufacturers of { Tubes no measurement
Steel forgings no measurement
Steel castings no measurement

Number of elements no measurement Material of tubes no measurement Internal diameter and thickness of tubes no measurement

Material of headers no measurement Tensile strength no measurement Thickness no measurement Can the superheater be shut off from the boiler no measurement

the boiler be worked separately no measurement Is a safety valve fitted to every part of the superheater which can be shut off from the boiler no measurement

Area of each safety valve no measurement Are the safety valves fitted with easing gear no measurement

Pressure to which the safety valves are adjusted no measurement Hydraulic test pressure no measurement

tubes no measurement forgings and castings no measurement and after assembly in place no measurement Are drain cocks no measurement

valves fitted to free the superheater from water where necessary no measurement

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



Dates of Survey { During progress of work in shops - 1950 Sep 18-29 Oct 26 Nov 7-30 Dec 21 1951 Are the approved plans of boiler and superheater forwarded herewith yes
(If not state date of approval.)
while building { During erection on board vessel - 9 Total No. of visits no measurement

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) The boiler has been constructed in accordance with the Rules and approved plan. Materials and workmanship good.

This boiler has been shipped to Port Glasgow for installation in the vessel.

The boiler is eligible in my opinion to be classed with the Machinery.

This boiler has been effectually installed in the vessel & its safety valves adjusted under steam for a working pressure of 180 lbs / sq. in. at the burner request; 20 is the designed pressure. For recommendations please see Machinery of 'GRX'.

Charles J. Hunter
Glasgow

Survey Fee ... £ 46 : 0 : 0 When applied for 14 MAR 1951 19.....

Travelling Expenses (if any) £ : : When received 19.....

G. H. Macdonald
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 14 MAR 1951

Assigned Deferred for comp.