

REPORT ON BOILERS.

25 FEB 1955

No. 112900

Date of writing Report

When handed in at Local Office 28.2.1955

Received at London Office 27 APR 1955

Port of NEWCASTLE-ON-TYNE

No. in Reg. Book. Survey held at

Date, First Survey 19.11.53

Last Survey 8.2.1955

On the M.V. 'SCOTTISH HAWK'

(Number of Visits 44)

Gross 11250

Net 6420

Built at Greenock By whom built The Greenock Dockyard Ltd

Yard No. 483

When built 1955

Engines made at Walkend-on-Tyne By whom made The Walkend Slipway & Eng. Co. Ltd

Engine No. 1058

When made 1955

Boilers made at Walkend-on-Tyne By whom made The Walkend Slipway & Eng. Co. Ltd

Boiler No. 1058

When made 1955

M.N. as per Rule

Owners Scottish Tanker Co. Ltd.

Port belonging to Glasgow

MULTITUBULAR BOILERS — MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd & The Weldless Steel Tube Co. Ltd.

Total Heating Surface of Boilers 2554 sq. ft. each boiler

Total for Register Book 2554 sq. ft. each boiler

Is forced draught fitted Yes

No. and Description of Boilers Two single-ended

Tested by hydraulic pressure to 275 lb/sq. in. Date of test 9/11/54

No. of Certificate 1614/5

Area of Firegrate in each Boiler 9.67 sq. ft.

Area of each set of valves per boiler 11.88 sq. ft.

Pressure to which they are adjusted 150 lb/sq. in.

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

Smallest distance between shell of boiler and tank top plating

Largest internal dia. of boilers 14'-3" Length 12'-0"

If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class vessels

Have complied with Thickness 3 1/32"

Are the shell plates welded or flanged No

Description of riveting: circ. seams

Pitch of rivets 7 7/16"

Percentage of strength of circ. end seams

Percentage of strength of longitudinal joint

Thickness of butt straps

Material Steel

Length of plain part

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

And plates in steam space: Material Steel

How are stays secured Electric welded

Tube plates: Material Steel

Pitch of stay tubes in nests 11 1/4" x 10 7/8"

Girders to combustion chamber tops: Material Steel

Centre 9 1/4" x 3 1/32"

Length as per Rule

Distance apart 8"

Combustion chamber plates: Material Steel

Tensile strength 26/30 Tons/sq. in.

Thickness 1 3/32"

Pitch of stays 19" x 19"

Tensile strength 26/30 Tons/sq. in.

Thickness 7/8"

Pitch across wide water spaces 13 1/2"

Girders to combustion chamber tops: Material Steel

Tensile strength 29/33 Tons/sq. in.

Depth and thickness of girder

Distance apart 8"

No. and pitch of stays

Tensile strength 26/30 Tons/sq. in.

Thickness 3/4"

Pitch of stays to ditto: Sides 11" x 1 3/4"

Back 1 1/8" x 9 1/2"

Top 3/4"

Bottom 3/4"

Front plate at bottom: Material Steel

Tensile strength 26/30 Tons/sq. in.

Thickness 7/8"

Lower back plate: Material Steel

Tensile strength 26/30 Tons/sq. in.

Thickness 7/8"

Pitch of stays at wide water space 14" x 10"

Are stays fitted with nuts or riveted over

Main stays: Material Steel

Tensile strength 28/32 Tons/sq. in.

Pitch of stays: Material Steel

Tensile strength 26/30 Tons/sq. in.

Pitch of stays: Material Steel

Tensile strength 26/30 Tons/sq. in.

Pitch of stays: Material Steel

Tensile strength 26/30 Tons/sq. in.

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Are the stays drilled at the outer ends. *No* Margin stays: Diameter { At turned off part, *1 3/4"* or *1 7/8"* Over threads. *1 3/4" + 1 7/8"*

No. of threads per inch. *Elect. welded.*

Tubes: Material *Steel* External diameter { Plain *2 1/2"* Stay *2 1/2"* Thickness { *10 u.g.* *5/16"* No. of threads per inch. *9.*

Pitch of tubes *4" x 3 5/8"* Manhole compensation: Size of opening in shell plate *17 15/16" x 13 15/16"* Section of compensating ring *✓* No. of rivets and diameter of rivet holes *Elect. welded*

Outer row rivet pitch at ends *✓* Depth of flange if manhole flanged *3 3/32"* 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 *✓* Thickness of crown *✓* No. and diameter of stays *✓* Inner radius of crown *✓*

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 *✓*

Type of Superheater *None* Manufacturers of { Tubes *✓* Steel forgings *✓* 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 *✓*

Pressure to which the safety valves are adjusted *✓* Hydraulic test pressure: tubes *✓* forgings and 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 Rules* *Yes.*

The foregoing is a correct description
FOR THE WALLSEND SLIPWAY & ENGINEERING CO., LIMITED

W. H. K. MANUFACTURER
MANAGING DIRECTOR

Dates of Survey while building { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith. (If not state date of approval.)
{ During erection on board vessel - - } *Visits included on Rules* Total No. of visits *✓*

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.) *These donkey boilers have been constructed under Special Survey in accordance with the requirements of the Rules and the approved plans.*

The materials and workmanship are good.

The boilers have been detached to Greenock for installation on board.

The boilers have been efficiently installed on board the vessel and the safety valves were adjusted under steam to 150 lbs./sq. in. A satisfactory accumulation test was carried out.

Compression Rings:-

	Port Boiler	Starboard Boiler
End Valve	<i>1/2"</i>	<i>7/16"</i>
Stiff Valve	<i>1/2"</i>	<i>7/16"</i>

G. Manson.
19-4-55.

Survey Fee £ *78* : - : - } When applied for. *24 FEB 1955*
Travelling Expenses (if any) £ - : - : - } When received *19*

W. H. K.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 26 APR 1955

Assigned

ACCOMPANYING MACHINERY REPORT



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