

# REPORT ON BOILERS.

No. 99141

Received at London Office

JAN 25 1941

ing Report 19 When handed in at Local Office 17.1.1941 Port of **NEWCASTLE-ON-TYNE**

Survey held at **Newcastle on Tyne** Date, First Survey **23 Jan** Last Survey **13/1/1941**

on the **S/S SARKÖY.** (Number of Visits **691**) Gross Tons **265** Net Tons **265**

Newcastle By whom built **Swan, Hunter & Wigham Richardson Ltd** Yard No. **1676** When built **1941-1**

ade at **do** By whom made **do.** Engine No. **1676** When made **1941-1**

de at **do** By whom made **do** Boiler No. **1676** When made **1941-1**

Horse Power Owners **His Majesty represented by The Ministry of Shipping.** Port belonging to **Newcastle**

## TUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

urers of Steel **The Steel Coy of Scotland, Colvilles Ltd, and Appleby & Frodingham Co** (Letter for Record **S.**)

ating Surface of Boilers **2554 sq. ft.** Is forced draught fitted **Yes** Coal or Oil fired **Coal.**

Description of Boilers **Two Single Ended "Scotch"** Working Pressure **180 lbs. □**

hydraulic pressure to **320** Date of test **25/11/40** No. of Certificate **875** Can each boiler be worked separately **Yes**

Firegrate in each Boiler **345 sq. ft.** No. and Description of safety valves to each boiler **Two 2" Cockburn Imp. High Lift.**

each set of valves per boiler (per Rule **4.09 sq. ins.** as fitted **6.28**) Pressure to which they are adjusted **180 lbs.** Are they fitted with easing gear **Yes**

donkey boilers, state whether steam from main boilers can enter the donkey boiler **None.**

distance between boilers or uptakes and bunkers **3'-0"** Is oil fuel carried in the double bottom under boilers **No.**

distance between shell of boiler and tank top plating **No tank under boilers** Is the bottom of the boiler insulated **No.**

internal dia. of boilers **11'-1 1/4"** Length **11'-0"** Shell plates: Material **Steel** Tensile strength **30 to 34 tons**

**7/8"** Are the shell plates welded or flanged **No** Description of riveting: circ. seams (end **D.R. overlap** inter. **None.**)

T.R. Dble butt straps Diameter of rivet holes in (circ. seams **1"** long. seams **15/16"**) Pitch of rivets (plate **3.24"** rivets **6 5/8"** (Rule max **6 7/8"**))

ge of strength of circ. end seams (plate **69.13** rivets **42.47**) Percentage of strength of circ. intermediate seam (plate **None.** rivets)

ge of strength of longitudinal joint (plate **85.84** rivets **85.55** combined **88.8.**)

s of butt straps (outer **21/32"** inner **25/32"**) No. and Description of Furnaces in each Boiler **Two "Deighton" Corrugated.**

**Steel** Tensile strength **26 to 30 tons** Smallest outside diameter **3'-0 15/16"**

f plain part (top **5 1/4"** bottom **2 1/4" at C.C. bottom**) Thickness of plates (crown **15/32"** bottom **CC. bott. 1/16"**) Description of longitudinal joint **Fire welded.**

ms of stiffening rings on furnace or c.c. bottom **None.**

tes in steam space: Material **Steel** Tensile strength **26 to 30 tons** Thickness **29/32"** Pitch of stays **13 3/4" x 14 7/8" max.**

ays secured **Nuts inside and outside.**

ates: Material (front **Steel** back **Steel**) Tensile strength **26 to 30 tons** Thickness (front **29/32"** back **3/4"**)

ch of stay tubes in nests **9 3/8"** Pitch across wide water spaces **13 1/2"**

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

**8 3/8" x 5 1/8" x two** Length as per Rule **30 9/16"** Distance apart **9"** No. and pitch of stays

**Two @ 9 3/4"** Combustion chamber plates: Material **Steel**

strength **26 to 30 tons** Thickness: Sides **1 1/16"** Back **1 1/16"** Top **1 1/16"** Bottom **1 1/16"**

ays to ditto: Sides **9 1/2" x 9 1/2"** Back **9" x 9 3/4"** Top **9" x 9 3/4"** Are stays fitted with nuts or riveted over **with nuts**

plate at bottom: Material **Steel** Tensile strength **26 to 30 tons**

**29/32"** Lower back plate: Material **Steel** Tensile strength **26 to 30 tons** Thickness **29/32"**

ays at wide water space **13 1/2" x 9 3/4"** (max at lower end **14 1/4" x 9 3/4"**) Are stays fitted with nuts or riveted over **with nuts.**

ays: Material **Steel** Tensile strength **28 to 32 tons**

At body of stay **2 3/8"** No. of threads per inch **6.**

Over threads

ays: Material **Steel** Tensile strength **26 to 30 tons**

At turned off part **1 3/4"** No. of threads per inch **9.**

Over threads

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Are the stays drilled at the outer ends No Margin stays: Diameter <sup>At turned off part</sup> 1 3/4 x 7/8  
 No. of threads per inch 9  
 Tubes: Material Steel External diameter <sup>Plain</sup> 2 1/2 Thickness <sup>Stay</sup> 9 W.G. 4 3/16 No. of threads per inch 9  
 Pitch of tubes 3 3/4 x 3 3/4 Manhole compensation: Size of opening in shell plate 16 x 20 Section of compensating ring 19 1/2 x 3 No. of rivets and diameter of rivet holes 32 of 1 5/16 dia  
 Outer row rivet pitch at ends 9 1/2 Depth of flange if manhole flanged 2 1/2 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 <sup>Plate</sup> \_\_\_\_\_  
 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 <sup>Tubes</sup> \_\_\_\_\_  
 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 \_\_\_\_\_  
 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 Yes

FOR SWAN, HUNTER, & WIGHAM RICHARDSON, LTD. The foregoing is a correct description,

G. J. Sheward Manufacturer. 17/12/39

Dates of Survey <sup>During progress of work in shops - -</sup> See Machy Report  
 while building <sup>During erection on board vessel - -</sup>

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) No 15/12/39

Total No. of visits \_\_\_\_\_

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Eccabat Yard no 1662  
Nwc Rpt no 98746.

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

The Boilers of this Vessel have been built under Special Survey in accordance with the Society's Rules and approved plans.

The Boilers have been satisfactorily fitted on board, tested under steam under working conditions, and the materials and workmanship are good

See also machy. Rpt 4.

Survey Fee ... .. £ See Rpt 4

Travelling Expenses (if any) £ : : \_\_\_\_\_

When applied for, \_\_\_\_\_ 19 \_\_\_\_\_

When received, \_\_\_\_\_ 19 \_\_\_\_\_

A. Watt

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute \_\_\_\_\_

Assigned \_\_\_\_\_

See Nwc. F.C. 99144



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