

REPORT ON MACHINERY.

No. 36426

Received at London Office

WED

8.10.17

of writing Report

19

When handed in at Local Office

10

Port of Glasgow

Survey held at
Book.
on the

Glasgow

Date, First Survey 10-12-13

Last Survey 16.2.1917

(Number of Visits 141)

T.S.S. "Boxleaf"

ster

Built at Glasgow

By whom built

Barclay Curle & Co. Ltd.

Tons } Gross
Net
When built

1917

ines made at

Glasgow

By whom made

Barclay Curle & Co. Ltd.

when made

1917

lers made at

Glasgow

By whom made

Barclay Curle & Co. Ltd.

when made

1917

istered Horse Power

Owners

Port belonging to

Horse Power as per Section 28

900

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

GINES, &c.—Description of Engines

Levin screw triple expansion

of Cylinders

6

No. of Cranks

6

of Cylinders

21" 35 1/2" 61"

Length of Stroke

45"

Revs. per minute

85

Dia. of Screw shaft

as per rule 13.29

as fitted 13 3/4

Material of

steel

the screw shaft fitted with a continuous liner the whole length of the stern tube

yes

Is the after end of the liner made water tight

the propeller boss

yes

If the liner is in more than one length are the joints burned

length If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

are fitted, is the shaft lapped or protected between the liners

Length of stern bush 4' 8"

of Tunnel shaft

as per rule 11.87

Dia. of Crank shaft journals

as per rule 12.06

as fitted 12 5/8

Dia. of Crank pin

12 7/8

Size of Crank webs 8 1/2 x 18"

of Feed pumps

4

Dia. of screw

16-3

Pitch of Screw

18-9"

No. of Blades

3

State whether moveable

yes

Total surface 68 1/2"

of Bilge pumps

4

Diameter of ditto

4 1/4"

Stroke

22 1/2"

Can one be overhauled while the other is at work

yes

of Donkey Engines

4

Sizes of Pumps

9" x 11" x 12", 9" x 6 1/2" x 10", 7" x 8" x 12"

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room (2) 3 1/2" in boiler room (2) 3 1/2"

of Bilge Suctions (1) 4" Stem (1) 2 1/2" Cargo space (2) 3 1/2" Chain locker (1) 2 1/2" in each tunnel (1) 2 1/2" in tunnel room (1) 3 1/2"

Connected to condenser, or to circulating pump pump a separate Donkey Suction fitted in Engine room & size 4" x 4"

all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none

all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both

they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line below

they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes

at pipes are carried through the bunkers none How are they protected

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

of examination of completion of fitting of Sea Connections 14/9/16 of Stern Tube 21/11/16 Screw shaft and Propeller 21/11/16

the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door no worked from

MANUFACTURERS, &c.—(Letter for record (S) Manufacturers of Steel Steel Coy of Scotland & D. & C. & Sons

al Heating Surface of Boilers 12628 Is Forced Draft fitted yes No. and Description of Boilers 4 Single ended

orking Pressure 215 Tested by hydraulic pressure to 430 Date of test 10/3/16 27/3/16 13377 13388 No. of Certificate 13380 13411

each boiler be worked separately yes Area of fire grate in each boiler 75.16 1/2 No. and Description of Safety Valves to

boiler 1 pair direct spring Area of each valve 9.62 Pressure to which they are adjusted 220 Are they fitted with easing gear yes

allest distance between boilers or uptakes and bunkers or woodwork 15 Mean dia. of boilers 16.6 Length 12.0 Material of shell plates steel

ckness 1 1/4 Range of tensile strength 31.5-35 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams treble lap

1. seams treble butt Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 10 1/2 Lap of plates or width of butt straps 23 1/2

centages of strength of longitudinal joint rivets 92.8 Working pressure of shell by rules 207 Size of manhole in shell 16 x 12

of compensating ring McRae 10 1/2 No. and Description of Furnaces in each boiler 4 Morrison Material steel Outside diameter 3-9 1/4

length of plain part top Thickness of plates crown 2 1/2 Description of longitudinal joint weld No. of strengthening rings

orking pressure of furnace by the rules 236 Combustion chamber plates: Material steel Thickness: Sides 4 1/2 Back 2 1/2 Top 4 1/2 Bottom 1

ch of stays to ditto: Sides 7 3/4 x 8 1/2 Back 9 x 7 3/4 Top 8 x 9 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 225

aterial of stays steel at smallest part 2.03 Area supported by stay 75 Working pressure by rules 253 End plates in steam space:

aterial steel Thickness 1 1/4 Pitch of stays 20 x 16 How are stays secured 2 nuts Working pressure by rules 249 Material of stays steel

at smallest part 7.86 Area supported by each stay 320 Working pressure by rules 256 Material of Front plates at bottom steel

ickness 3/32 Material of Lower back plate steel Thickness 29 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 246

imeter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates steel Thickness: Front 3/32 Back 1/16 Mean pitch of stays 7 1/2

ch across wide water spaces 13 1/2 Working pressures by rules 224 Girders to Chamber tops: Material steel Depth and

ickness of girder at centre 10 25/32 Length as per rule 2.10 Distance apart 9 Number and pitch of stays in each (3) 8"

orking pressure by rules 215 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

es Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

orking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

009004-009007-0109

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. <i>None</i>	Description			
Made at	By whom made	When made	Where fixed	
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment
If fitted with easing gear	If steam from main boilers can enter the donkey boiler		Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams	
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by	
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey	

SPARE GEAR. State the articles supplied:— *2 top end bolts + nuts 2 bottom end bolts + nuts 2 main bearing bolts + nuts feed + bilge pump valves, iron bolts + nuts assorted, and in addition all articles specified.*

The foregoing is a correct description,

FOR BARCLAY, CURLE & CO., LTD.

Manufacturer.

Director.

Dates of Survey while building	During progress of work in shops --	<i>1913 Dec. 10/12, 1914 July 16/19, 14. 6. 15/15, 21. 10/14, 14. 22 Nov. 4. 5. 6/16, 25. 30 Dec. 2/26, 14/15 Jan. 5. 6. 17. 20. 21. 22 Feb. 8 Mar. 12 June 1 Aug. 3</i>
	During erection on board vessel --	<i>Dec. 9. 20. 14/16 Jan. 12. 14. 15. 26. 26. 27 Feb. 2. 3. 4. 8. 9. 15/14. 15. 20. 21. 22. 23. 24. 25. 28. 29 Mar. 2. 3. 6. 9. 10. 13. 14. 15. 16. 20. 21. 24. 29. 30 Apr. 5. 7. 10. 11/14</i>
	Total No. of visits	<i>141</i>
	Is the approved plan of main boiler forwarded herewith	<i>yes</i>

Dates of Examination of principal parts—Cylinders <i>8/2/15, 24/1/15</i> Slides <i>9/3/16</i> Covers <i>24/2/16</i> Pistons <i>24/2/16</i> Rods <i>22/2/16</i>	
Connecting rods <i>22/2/16</i> Crank shaft <i>7/4/16</i> Thrust shaft	Tunnel shafts <i>29/2/16</i> Screw shaft
Stern tube <i>31/7/16</i> Steam pipes tested <i>24/1/17</i> Engine and boiler seatings <i>24/1/16</i> Engines holding down bolts <i>22/1/17</i>	
Completion of pumping arrangements <i>29/1/17</i> Boilers fixed <i>29/1/17</i> Engines tried under steam <i>15-16/2/17</i>	
Main boiler safety valves adjusted <i>29/1/17</i> Thickness of adjusting washers <i>PA 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 1/4, 33 1/2, 33 3/4, 34, 34 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