

## REPORT ON MACHINERY.

No. 25895

THU. OCT. 30. 1913

Received at London Office

Date of writing Report 21-10-1913 When handed in at Local Office 21-10-1913 Port of SUNDERLAND

No. in Survey held at SUNDERLAND

Date, First Survey Aug 28th 1912 Last Survey 21-10-1913

Reg. Book.

(Number of Vessels 39)

Supp 50 on the new steel S/S "SHABONEE".

Master J. J. Reed Built at Sunderland By whom built Sing & Sons Ltd (N° 643) Tons { Gross 5167  
Net 3230  
Engines made at Sunderland By whom made George Blake Ltd (N° 984) when made 1913  
Boilers made at Sunderland By whom made George Blake Ltd (N° 984) when made 1913  
Registered Horse Power Owners Tank Storage & Barrage Co Ltd Port belonging to Sunderland  
Nom. Horse Power as per Section 28 475 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 26" 44" 72" Length of Stroke 48 Revs. per minute 70 Dia. of Screw shaft as per rule 14.65" Material of J. steel  
Is 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  
in the propeller boss yes If the liner is in more than one length are the joints burned — 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 — If two  
liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 5'-1"  
Dia. of Tunnel shaft as per rule 13.1" Dia. of Crank shaft journals as per rule 13.75" Dia. of Crank pin 14 1/4" Size of Crank webs 2 1/4" x 9" Dia. of thrust shaft under  
collars 14 3/8" Dia. of screw 17.9" Pitch of Screw 16'-3" No. of Blades 4 State whether moveable no Total surface 95 ft<sup>2</sup>  
No. of Feed pumps 2 (Weirs) Diameter of ditto 7" Stroke 18" Can one be overhauled while the other is at work yes  
No. of Bilge pumps 2 Diameter of ditto 4 1/2" Stroke 26" Can one be overhauled while the other is at work yes  
No. of Donkey Engines 3 Sizes of Pumps 9x10x10 7 1/2 x 8 x 7 6 1/4 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room Three @ 8 1/2" and four @ 2" in oil well, (fuel pump) Holds, &c. fore peak flat-2 @ 2 1/2" cargo hold 2 @ 2 1/2"  
connected to ballast pump in cargo hold only. 2 @ 2 1/2" in pump room connected to cargo pumps only.  
No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room size yes 4"  
all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible yes Are the sluices in Engine room bulkheads always accessible none  
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both  
Are 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 above  
Are 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  
What pipes are carried through the bunkers none How are they protected —  
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes  
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes  
Dates of examination of completion of fitting of Sea Connections 18-9-13 of Stern Tube 26-9-13 Screw shaft and Propeller 26-9-13  
Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door machinery worked from

BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel John Spencer & Sons Limited  
Total Heating Surface of Boilers 6805 ft<sup>2</sup> Is Forced Draft fitted yes No. and Description of Boilers two single ended marine  
Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 6-9-13 No. of Certificate 3143  
Can each boiler be worked separately yes Area of fire grate in each boiler 80 ft<sup>2</sup> No. and Description of Safety Valves to  
each boiler two direct spring Area of each valve 14.180" Pressure to which they are adjusted 185 Are they fitted with easing gear yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 1'-11" Mean dia. of boilers 14'-3" Length 12'-0" Material of shell plates steel  
Thickness 1 1/2" Range of tensile strength 29 1/2 - 33 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams W.R.  
long. seams W.B.S. & R Diameter of rivet holes in long. seams 13/8" Pitch of rivets 9 1/2" Lap of plates or width of butt straps 20 5/8"  
Per centages of strength of longitudinal joint rivets 94 plate 84.78 Working pressure of shell by rules 181 Size of manhole in shell 16" x 13"  
Size of compensating ring flanged No. and Description of Furnaces in each boiler 4 Weighton bon Material steel Outside diameter 3'-10"  
Length of plain part top 39" bottom 64" Thickness of plates crown 39" bottom 64" Description of longitudinal joint welded No. of strengthening rings  
Working pressure of furnace by the rules 212 Combustion chamber plates: Material steel Thickness: Sides 13/16" Back 3/4" Top 3/4" Bottom 13/16"  
Pitch of stays to ditto: Sides 10 3/4" x 11" Back 10 3/4" x 10" Top 10 1/2" x 10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180  
Material of stays steel Diameter at smallest part 2.360" Area supported by each stay 107.50" Working pressure by rules 197 End plates in steam space:  
Material steel Thickness 1 1/2" Pitch of stays 24" x 24" How are stays secured W.N. Working pressure by rules 180 Material of stays steel  
Diameter at smallest part 8.950" Area supported by each stay 4600" Working pressure by rules 202 Material of Front plates at bottom steel  
Thickness 15/16" Material of Lower back plate steel Thickness 31/32" Greatest pitch of stays 16 1/4" x 9 1/2" Working pressure of plate by rules 183  
Diameter of tubes 2 1/2" Pitch of tubes 3 3/4" x 3 5/8" Material of tube plates steel Thickness: Front 15/16" Back 3/4" Mean pitch of stays 9 3/8"  
Pitch across wide water spaces 13 1/2" Working pressures by rules 185 Girders to Chamber tops: Material steel Depth and  
thickness of girder at centre 20 9/4" x 7 1/8" Length as per rule 36" Distance apart 10" Number and pitch of stays in each 2 @ 10 1/2"  
Working pressure by rules 183 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked  
separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



# VERTICAL DONKEY BOILER— Manufacturers of Steel

No. 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 Description of Safety

Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment

If fitted with casing 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 Rivets Plates

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:—Two connecting rod top & bottom end bolts and nuts. Two main bearing bolts one set of coupling bolts one set of feed bridge, air & circulating pump valves iron and bolts of various sizes one tail shaft, one propeller one eccentric strap, one valve spindle one pair of top and bottom end bearings one air pump bucket & rod one fire & pump bucket & rod

The foregoing is a correct description,

FOR GEORGE CLARK, LIMITED

Manufacturer.

W. S. Preece

27th March 1913

Dates of Survey while building

During progress of work in shops -- 1912 Aug 28 Nov 7 19 Dec 10 Mar 4 28 Apr 1 23 24 May 6 20 28 30

During erection on board vessel -- June 7 18 19 July 1 9 11 18 22 28 31 Aug 1 12 21 Sep 2 5 6 9 12 15 17 18 26 29

Total No. of visits 39

Is the approved plan of main boiler forwarded herewith

Yes

Dates of Examination of principal parts—Cylinders 7-6-13 Slides 21-8-13 Covers 20-5-13 Pistons 27-5-13 Rods 22-7-13

Connecting rods 28-7-13 Crank shaft 1-4-13 Thrust shaft 10-12-12 Tunnel shafts None 2 Screw shafts 15-9-13 Propellers 28-5-13

Stern tube 5-9-13 Steam pipes tested 7-10-13 Engine and boiler seatings 19-6-13 Engines holding down bolts 29-9-13

Completion of pumping arrangements 17-10-13 Boilers fixed 17-10-13 Engines tried under steam 9-10-13

Main boiler safety valves adjusted 9-10-13 Thickness of adjusting washers Pist. 1 1/2", 5 5/16", 5 17/32"

Material of Crank shaft 9. Steel Identification Mark on Do. 2051 MB. Material of Thrust shaft 9. Steel Identification Mark on Do. 75 J.D.

Material of Tunnel shafts None Identification Marks on Do. ✓ Material of Screw shafts 9. Steel Identification Marks on Do. 45 J.D. & 88 J.D.

Material of Steam Pipes lapwelded steel 10 1/2" x 7/16" & 10 1/8" x 7/16" Test pressure 540 lbs per square inch.

General Remarks (State quality of workmanship, opinions as to class, &c. The materials and workmanship are good. The machinery has been made under special and is eligible in my opinion for classification and the Record + LMC 10.13 "Fitted for liquid fuel" — FP above 150°F. "Wireless".

It is submitted that this vessel is eligible for THE RECORD + LMC 10.13. F.D. Fitted for oil fuel 10.13. F.P. above 150°F.

The amount of Entry Fee .. £ 3 : : When applied for, Special .. £ 43 15 : : 27 10 1913

Donkey Boiler Fee .. £ : : When received, Travelling Expenses (if any) £ : : 29 10 1913

Lewis & Davis

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

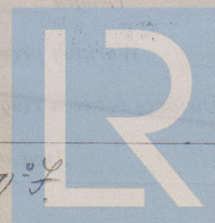
FRI OCT 31 1913

Assigned

+ LMC 10.13

MACHINERY CERTIFICATE WRITTEN

Fitted for oil fuel 10.13 F.P. above 150°F



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