

REPORT ON MACHINERY.

No. 26066

Received at London Office THUR. APR. - 9. 1914

Date of writing Report

When handed in at Local Office

Port of

SUNDERLAND

SUNDERLAND

No. in Survey held at Reg. Book.

Date, First Survey 4th March 1913 Last Survey 4th April 1914

355 on the new steel S/S "SIMOOM"

(Number of Visits 29)

Gross 2222 Tons

Net 1365

Master J. Jones Built at Sunderland By whom built Priestman & Co S/S N° 245 When built 1914

Engines made at Sunderland By whom made G. Black Ltd (N° 991) when made 1914

Boilers made at Sunderland By whom made G. Black Ltd (N° 991) when made 1914

Registered Horse Power Owners Parove Thomas & Co Ltd Port belonging to Newport, Mon.

Nom. Horse Power as per Section 28 222 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 21.35.37 Length of Stroke 39 Revs. per minute 65 Dia. of Screw shaft as per rule 12" Material of (screw shaft) 9. 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

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 4'-0"

Dia. of Tunnel shaft as per rule 10.56" Dia. of Crank shaft journals as per rule 11.1" Dia. of Crank pin 11 1/8" Size of Crank webs 16 1/2 x 7 1/2" Dia. of thrust shaft under

rollers 11 3/4" Dia. of screw 15'-0" Pitch of Screw 15'-6" No. of Blades 4 State whether moveable no Total surface 73 sq ft

No. of Feed pumps 2 Diameter of ditto 27 1/4" Stroke 24" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work yes

No. of Donkey Engines 2 Sizes of Pumps BALLAST FEED 9x10x10 6x4x6 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Three @ 3" In Holds, &c. Forward hold - 2 @ 3" after

hold - 2 @ 3" & 2 @ 2 1/2" Tunnel Well - 1 @ 2 1/2"

No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump B.P. Is a separate Donkey Suction fitted in Engine room & size yes 4"

Are 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

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

That pipes are carried through the bunkers Forward hold suction How are they protected under wood ceiling!

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 6-2-14 of Stern Tube 6-2-14 Screw shaft and Propeller 25-2-14

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Top platform

VALVES, &c.—(Letter for record (S)) Manufacturers of Steel John Spencer & Sons Limited

Total Heating Surface of Boilers 3463 sq ft Is Forced Draft fitted no No. and Description of Boilers Two single ended main

Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 29-9-13 No. of Certificate 3153

Can each boiler be worked separately yes Area of fire grate in each boiler 52 sq ft No. and Description of Safety Valves to

each boiler two direct spring Area of each valve 7.068 sq in Pressure to which they are adjusted 183 Are they fitted with easing gear yes

Smallest distance between boiler or uptakes and bunkers or woodwork 19" Mean dia. of boilers 13'-6" Length 10'-6" Material of shell plates steel

Thickness 1 1/8" 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.T.R Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 16"

Percentage of strength of longitudinal joint rivets 84.5 Working pressure of shell by rules 181 Size of manhole in shell 16" x 13"

Type of compensating ring flanged No. and Description of Furnaces in each boiler 3 plain Material steel Outside diameter 3'-3 3/4"

Length of plain part top 6'-4 3/16" Thickness of plates crown 4 7/16" Description of longitudinal joint welded No. of strengthening rings none

Working pressure of furnace by the rules 180 Combustion chamber plates: Material steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 1/16"

Pitch of stays to ditto: Sides 8 3/4 x 10 1/8 Back 9 1/4 x 9 7/8 Top 8 7/8 x 10 1/2 If stays are fitted with nuts or riveted heads nuts in ends Working pressure by rules 181

Material of stays steel Diameter at smallest part 2.032 x 2.36 Area supported by each stay 89.5 & 110 Working pressure by rules 206 & 186 End plates in steam space:

Material steel Thickness 19/32 Pitch of stays 18 x 22 How are stays secured W.N. Working pressure by rules 182 Material of stays steel

Diameter at smallest part 6.49 Area supported by each stay 351 Working pressure by rules 192 Material of Front plates at bottom steel

Thickness 1 3/16 Material of Lower back plate steel Thickness 39/32 Greatest pitch of stays 15 x 9 1/4 Working pressure of plate by rules 182

Diameter of tubes 3 1/2 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates steel Thickness: Front 1 3/16 Back 3/4 Mean pitch of stays 10"

Pitch across wide water spaces 14 1/4 Working pressures by rules F. with DP-262 Girders to Chamber tops: Material steel Depth and

Thickness of girder at centre 20 1/2 x 7 1/8 Length as per rule 2-4 3/2 Distance apart 10 1/2 Number and pitch of stays in each 2 @ 8 3/8"

Working pressure by rules 181 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

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

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		When made	Where fixed
Made at	By whom made			
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 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
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 and bottom end bolts and nuts two main bearing bolts, one set of coupling bolts, one set of feed, bilge, air and circulating pump valves, iron and bolts of various sizes, one propeller.

The foregoing is a correct description, W. G. M. M. M.
FOR GEORGE CLARK, LIMITED
 Manufacturer of the Main Engines & Boilers

Dates of Survey while building: During progress of work in shops --- 1913 March 4, 12, Apr. 17, Jul. 11, 22, 28, Aug. 12, 13, 14, 18, 21, Sep. 2
 During erection on board vessel --- 9, 12, 15, 18, 24, 25, 27, Oct. 1, 9, 10, 13, 27, Nov. 4, 10, Dec. 10, 19, Jan. 22, 28, Feb. 6, 25, 27, Mar. 2, 4, 5, 12, Apr. 4
 Total No. of visits (39) Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 12-8-13 Slides 13-10-13 Covers 21-8-13 Pistons 18-8-13 Rods 29-9-13
 Connecting rods 9-10-13 Crank shaft 18-9-13 Thrust shaft 24-9-13 Tunnel shafts 1-10-13 Screw shaft 28-1-14 Propeller 19-12-1
 Stern tube 23-1-14 Steam pipes tested 2-3-14 Engine and boiler seatings 6-2-14 Engines holding down bolts 4-3-14
 Completion of pumping arrangements 12-3-14 Boilers fixed 4-3-14 Engines tried under steam 5-3-14
 Main boiler safety valves adjusted 5-3-14 Thickness of adjusting washers Port BLR. P 3/8" S 7/16" Star BLR. P 3/8" Full S 3/8"
 Material of Crank shaft J. Steel Identification Mark on Do. 8434 K.H. Material of Thrust shaft J. Steel Identification Mark on Do. 7555 J.M.
 Material of Tunnel shafts J. Steel Identification Marks on Do. 5493-4 PA Material of Screw shafts J. Steel Identification Marks on Do. 2587 M
 Material of Steam Pipes Solid drawn copper 2 @ 4" x 6 W 3 Test pressure 400 lbs per sq"

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The materials and workmanship are good.
 The machinery has been made under special survey and is eligible in my opinion for classification and the record + LMC 4.14

It is submitted that this vessel is eligible for THE RECORD, + LMC 4.14.

J.W.D.
 9/4/14

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

The amount of Entry Fee .. £ 2 : : : When applied for, 6/4/14
 Special .. £ 31 : 2 : : :
 Donkey Boiler Fee .. £ : : : : When received, 11/4/14
 Travelling Expenses (if any) £ : : : : 14/4

Committee's Minute WED. APR. 15. 1914
 Assigned + L.M.C. 4.14

These papers

Signal Letter

Official No.

135

No., Date, and

Whether British Foreign Built

British

Number of Dec

Number of Mas

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and vessel ...

Number of Bull

Number of water and their cap

Total to quarter the depth to bottom of keel

No. of sets of Engines.

Description

one Turf

No. of Shafts.

Particular Description Number Iron or Steel Loaded Pres

one

Under Tonnage, I

Space or spaces

Turret or Trunk

Forecastle ...

Bridge space

Propeller Break

Side Houses Po

Deck Houses

Chart House

Spaces for machinery Section 78 (2) of 1894 ...

Excess of Hatchway

Gross Tonnage

Deductions, as per Register

NOTE 1.—The tonnage Deck for p

NOTE 2.—The underm

Name of

No. of Owners

Name, Residence, Ident

at 116

Dated

(830) (69862) Wt. 2895

