

REPORT ON MACHINERY.

No. 36768

Received at London Office

WED. 21. MAR. 1917

Date of writing Report

19

When handed in at Local Office

19

Port of Glasgow

in Survey held at Green & Ayr
g. Book.
Suffron the Steel SS "NANTES"Date, First Survey 4th March 1915. Last Survey 7th March 1917

(Number of Visits)

Tons { Gross 1580.14
Net 822.69

Master J.D. Paterson 16-17 Built at Ayr

By whom built Aulsa & B. La (No 292) When built 1916

Engines made at Green

By whom made Aulsa & B. La (No 49) when made 1917

Machinery made at Glasgow

By whom made Dunsmin & Jackson La (No 355) when made 1916

Registered Horse Power

Owners European Gas Co. London
(H.A. Brightman) Port belonging to London

m. Horse Power as per Section 28 193

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

GINES, &c.—Description of Engines

Triple Expansion No. of Cylinders 3 No. of Cranks 3

No. of Cylinders 19-31-50 Length of Stroke 36 Revs. per minute 82 Dia. of Screw shaft 10.5 as per rule 10.5 as fitted 10.5 Material of screw shaft Iron

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 Yes If two

ers are fitted, is the shaft lapped or protected between the liners — Length of stern bush 3-7

Dia. of Tunnel shaft 9.53 as per rule 9.53 as fitted 9.53 Dia. of Crank shaft journals 10.04 as per rule 10.04 as fitted 10.04 Dia. of Crank pin 10.8 Size of Crank webs 36 1/2 x 8 1/2 Dia. of thrust shaft under

bars 10 1/2 Dia. of screw 12-6 Pitch of Screw 15-4 No. of Blades 4 State whether moveable No Total surface 48.9

No. of Feed pumps 2 Diameter of ditto 3 Stroke 18 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 18 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 7x4 1/2 x 8, 7x8 x 8 (Duplex) No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room one 2 1/2, one 2 1/4 In Holds, &c. Fore hold two 2 1/2 after hold three 2 1/4

Tunnel well, one 2 1/4

No. of Bilge Injections 1 sizes 4 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes 2 1/2

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 Yes

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 Bilge Suctions (Fore hold) How are they protected Strong wood casings

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 22.10.16 of Stern Tube 22.10.16 Screw shaft and Propeller 22.10.16

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Cylinder Platform

MILERS, &c.—(Letter for record) Manufacturers of Steel See Separate Rpt (Gls No 36364)

Total Heating Surface of Boilers 3412 Is Forced Draft fitted No No. and Description of Boilers 2 Single Endia

Working Pressure 180 lb Tested by hydraulic pressure to Date of test No. of Certificate 13562

Can each boiler be worked separately Yes Area of fire grate in each boiler 52.2 ft No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 4.91 ft Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 3-6 Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

ong. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of stays

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

Diameter at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules

Thickness Material of Lower back plate Thickness Greatest pitch of stays Back Mean pitch of stays

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Depth and

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Number and pitch of stays in each

thickness of girder at centre Length as per rule Distance apart Can the superheater be shut off and the boiler worked

Working pressure by rules Superheater or Steam chest; how connected to boiler Diam. of rivet

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Thickness

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

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

W364-0135

VERTICAL DONKEY BOILER—

Manufacturers of Steel

None

No. Description When made Where fixed
 Made at By whom made No. of Certificate Fire grate area Description of Safety
 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 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 Rivets
 Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint 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:— 2 Top and 2 bottom and bolts & nuts, 2 main bearing bolts & nuts, 1 set of Coupling bolts & nuts, 1 set of feed and helge pump & valves, assorted bolts & nuts and Iron of various sizes

The foregoing is a correct description,
 FOR AILSA SHIPBUILDING CO., LIMITED.
 W. S. Watson Manufacturer.

Dates of Survey while building
 During progress of work in shops: 1915 Feb. 4, 11, 15, 25, 29, Apr. 19, May 13, 19, 1916 May 19, July 14, June 24, Aug. 7, 14, Sept. 8, 21, Oct. 13, 23, 31, Nov. 3, 6, 10, 14, 15, 21, 27, 29
 During erection on board vessel: 29, Dec. 4, 6, 13, 22, 1917 Jan. 8, 15, 17, Feb. 5, 13, 23, 28, March 7
 Total No. of visits
 Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 29.11.16 Slides 29.11.16 Covers 29.11.16 Pistons 29.11.16 Rods 27.11.16
 Connecting rods 27.11.16 Crank shaft 23.10.16 Thrust shaft 23.10.16 Tunnel shafts 31.10.16 Screw shaft 6.11.16 Propeller 22.11.16
 Stern tube 15.11.16 Steam pipes tested 13.2.17, 23.2.17 Engine and boiler seatings 22.12.16 Engines holding down bolts 17.1.17
 Completion of pumping arrangements 23.2.17 Boilers fixed 17.1.17 Engines tried under steam 7.3.17
 Main boiler safety valves adjusted 7.3.17 Thickness of adjusting washers P/Bolts, P/16 Sta 3/8, Sta Bolts, P/8, Sta 3/8
 Material of Crank shaft Steel Identification Mark on Do. 49JE Material of Thrust shaft Steel Identification Mark on Do. 49JE
 Material of Tunnel shafts Iron Identification Marks on Do. 49JE Material of Screw shafts Iron Identification Marks on Do. 49JE
 Material of Steam Pipes Copper (Solid drawn) Test pressure 360 lbs

General Remarks (State quality of workmanship, opinions as to class, &c.) The Machinery has been built under Special Survey in accordance with the Rules, Seaworthily fitted on board, tried under Steam and found to work satisfactorily, and is eligible in my opinion to be Classed with record of + LMC 3-17.
 The Materials & Workmanship are good

It is submitted that
 this vessel is eligible for
 THE RECORD + LMC 3-17.

JWD. JAR
 21/3/17

The amount of Entry Fee .. £ 2 : 0 :
 Special £ 18 : 10 :
 Donkey Boiler Fee £ : :
 Travelling Expenses (if any) £ 3 : 16 :
 When applied for, 15-3-17
 When received, 21-3-17

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

Committee's Minute GLASGOW.

20 MAR. 1917

Assigned + L.M.C. 3, 17.

MACHINERY CERTIFICATE
 WRITTEN 21-3-17



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Lloyd's Register
 Foundation

Date of writing
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