

REPORT ON MACHINERY.

No. 36768

Received at London Office

WED. 21. MAR. 1917

Date of writing Report

When handed in at Local Office

Port of Glasgow

in Survey held at Groon & Ayr

Date, First Survey 4th March 1915 Last Survey 7th March 1917

Book. Suppl on the Steel SS "NANTES"

(Number of Visits)

Tons } Gross 1580.14
Net 822.69

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

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

Engines made at Groon

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

Motors made at Glasgow

By whom made Dunsmuir & Jackson La (No 555) when made 1916

Registered Horse Power

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

Net 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 5/8 Material of screw shaft Iron

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 Yes If two

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

Dia. of Tunnel shaft 9.53 Dia. of Crank shaft journals 10.04 Dia. of Crank pin 10 1/8 Size of Crank webs 36 1/2 x 18 1/2 Dia. of thrust shaft under

bars 10 1/8 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, 7x8x8 (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

MANUFACTURERS, &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 No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 4.91 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: circ. seams

Long. 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 - 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 - Thickness of plates - Description of longitudinal joint - No. of strengthening rings -

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 -

Material of stays - Diameter at smallest part - Area supported by each stay - Working pressure by rules - End plates in steam space: -

Material - Thickness - Pitch of stays - How are stays secured - Working pressure by rules - Material of stays -

Diameter at smallest part - Area supported by each stay - Working pressure by rules - Material of Front plates at bottom -

Thickness - Material of Lower back plate - Thickness - Greatest pitch of stays - Working pressure of plate by rules -

Diameter of tubes - Pitch of tubes - Material of tube plates - Thickness: Front - Back - Mean pitch of stays -

Pitch across wide water spaces - Working pressures by rules - Girders to Chamber tops: Material - Depth and

thickness of girder at centre - Length as per rule - Distance apart - Number and pitch of stays in each -

Working pressure by rules - Superheater or Steam chest; how connected to boiler - 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 -

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