

REPORT ON MACHINERY.

No. 8256

REC'D - JAN 1920

Received at London Office

Writing Report *22 Nov 1919* When handed in at Local Office *10* Port of *Belfast*
Survey held at *Londonderry* Date, First Survey *Sept 12* Last Survey *Nov 26 1919*
on the *P.S. Omega* (Number of Visits *10*)
Built at *Londonderry* By whom built *North of Ireland S. Co. Ltd* when made *1919*
made at *Belfast* By whom made *W. & A. Baxter* when made
made at *Belfast* By whom made *W. & A. Baxter* when made
red Horse Power *W. Thomson & Co* Port belonging to *Leith*
Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted *Yes*

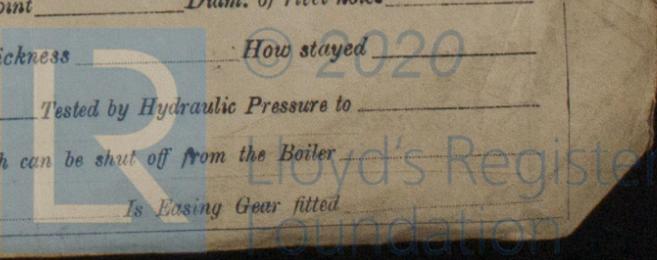
PROPELLERS, &c.—Description of Engines
No. of Cylinders No. of Cranks
Material of screw shaft
Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted
Is the after end of the liner made water tight
If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part
the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
are fitted, is the shaft lapped or protected between the liners Length of stern bush
Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under
Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Holds, &c. *8-3 1-3 1/2 3-2 1/2*

Bilge Injections / sizes *8"* Connected to condenser, or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size *Yes - 3 1/2"*
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
connections with the sea direct on the skin of the ship *Yes - Except Main Tank Injections* Are they Valves or Cocks *Both*
Do. *Yes* Are the Discharge Pipes above or below the deep water line *Both*
Do. *Yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*
pipes are carried through the bunkers *Fore hold suction* How are they protected *With casing*
Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*
Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Upper deck level*

BOILERS, &c.—(Letter for record) Manufacturers of Steel
Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate
Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Advantages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
plate
No. and Description of Furnaces in each boiler Material Outside diameter
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
of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Working pressures by rules Girders to Chamber tops: Material Depth and
Length as per rule Distance apart Number and pitch of stays in each
Steam dome: description of joint to shell % of strength of joint
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Pressure to which each is adjusted Is Easing Gear fitted

W1238-0027



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Mackie & Baxter

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1919, Sep 12, 23, 24, Oct 3, 4, 15, Nov 4, 14, 25, 26. During erection on board vessel --- Total No. of visits Ten.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts: Cylinders, Slides, Covers, Pistons, Rods, Connecting rods, Crank shaft, Thrust shaft, Tunnel shafts, Screw shaft, Propeller. Stern tube 12-9-19, Steam pipes tested, Engines and boiler seatings 26-11-19, Engines holding down bolts, Completion of pumping arrangements 26-11-19, Boilers fixed 26-11-19, Engines tried under steam, Completion of fitting sea connections 12-9-19, Stern tube 3-10-19, Screw shaft and propeller 5-13-19, Main boiler safety valves adjusted, Thickness of adjusting washers.

Material of Crank shaft, Identification Mark on Do., Material of Thrust shaft, Identification Mark on Do., Material of Tunnel shafts, Identification Marks on Do., Material of Screw shafts, Identification Marks on Do., Material of Steam Pipes W. Iron, Test pressure 540 lbs., Stamped J.S. Lloyd's Test 540 lbs.

Is an installation fitted for burning oil fuel No, Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case, If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) This vessel has left London down in tow for Glasgow where the main engines are to be fitted on board. The boilers (stated to have been made by Gray & Co., Paisley to British Corporation rules, and stamped No 2834, 540 lbs. S.L.B 27-11-18) have been securely fitted on board, also the auxiliaries and Tugs and ballast pumping arrangements. A copy of the Secretary's Letter of instructions, dated 19th Aug 1919 is appended.

Proprietors & the credits: The amount of Entry Fee £, Special £, Donkey Boiler Fee £, Travelling Expenses (if any) £ 9 : 18. (Returned from Belfast Committee of Min. (S. Coy) GLASGOW 6 - JAN 1920 LMC 1, 20

R. F. Beveridge, Engineer Surveyor to Lloyd's Register of Shipping.

FRI. FEB. 6 - 1920



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Certificate (if required) to be sent to... The Surrogates are requested not to write on or below the space for Committee's Minutes.