

# REPORT ON MACHINERY.

No. 8256

REC'D - JAN 1920

Writing Report *28 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* Tons *1919*  
 made at *Belfast* By whom made *W. H. Baxter* when made  
 made at *Belfast* By whom made *Belfast* 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*

VES, &c.—Description of Engines  
 No. of Cylinders No. of Cranks  
 Length of Stroke Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft  
 as fitted Is the after end of the liner made water tight  
 screw shaft fitted with a continuous liner the whole length of the stern tube  
 propeller boss 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  
 Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under  
 as fitted  
 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  
 Engine Room *4-3* In Holds, &c. *8-3 1-3 3-2*

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  
 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 *Both*  
 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*  
 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*

ERS, &c.—(Letter for record) Manufacturers of Steel  
 Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers  
 Tested by hydraulic pressure to Date of test No. of Certificate  
 Area of fire grate in each boiler No. and Description of Safety Valves to  
 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear  
 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  
 Working pressure of shell by rules Size of manhole in shell  
 No. and Description of Furnaces in each boiler Material Outside diameter  
 Description of longitudinal joint No. of strengthening rings  
 Thickness of plates Description of longitudinal joint No. of strengthening rings  
 Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
 If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:  
 Area at smallest part Area supported by each stay Working pressure by rules Material of stays  
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom  
 Area supported by each stay Working pressure by rules Working pressure of plate by rules  
 Material of Lower back plate Thickness Greatest pitch of stays Mean pitch of stays  
 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  
 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



If so, is a report now forwarded?

*The foregoing is a correct description,*

McKie & 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 approval of the Committee?

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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	<del>Engine and</del> 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 5-10-19		
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		Test pressure	

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.)

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This vessel has left London dunnage in tow for Glasgow where the main engines are to be fitted on board. The boilers (stated to have been made by Craig & Co. Paisley to British Corporation rules, and stamped N<sup>o</sup> 2834, 360 lbs. S.L.B. 27-11-18) have been securely fitted on board, also the auxiliaries and fuel and ballast pumping arrangements.

A copy of the Secretary's Letter of instructions, dated 19<sup>th</sup> Aug<sup>r</sup> 1919 is appended.

Proper two & he credits

The amount of Entry Fee	£	:	:	When applied for,
<i>to Postage Office</i>				
Special	£	:	:	19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	9	18	19

Travelling Expenses (if any) £ 9 : 18 : 11/10  
(Rendell from Belfast)  
Committee's Minute (S. Cox) GLASGOW 6-JAN-1920

*Assigned*

LHC 1, 20

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

FRI FEB 6 - 1920