

REPORT ON MACHINERY.

No. 34953.

Received at London Office

WED. JUL 10. 1918

to of writing Report

When handed in at Local Office

Port of Glasgow

Date, First Survey 25/4/17

Last Survey 27/6/1918

(Number of Visits 100)

o. in Survey held at Glasgow

on the standard vessel

Engines made at Glasgow By whom made Harland & Wolff Ltd No 527 when made 1913
Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 27 44 73 Length of Strokes 48 Revs. per minute Dia. of Screw shaft as per rule 14 1/2 as fitted 15 1/2 Material of screw shaft 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
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 60 1/2
Dia. of Tunnel shaft as per rule 13 3/4 as fitted 13 1/2 Dia. of Crank shaft journals as per rule 14 1/2 as fitted 14 1/2 Dia. of Crank pin 14 1/2 Size of Crank webs 28 x 9 Dia. of thrust shaft under
collars 14 3/4 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
No. of Feed pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work
No. of Bilge pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work
No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
What pipes are carried through the bunkers How are they protected
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller
Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel
Total 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
each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Smallest distance between boilers or uptakes and bunkers or woodwork 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
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 rivets Working pressure of shell by rules Size of manhole in shell
plate
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
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

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied :-

The foregoing is a correct description,

F. E. Rebeck

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1911. Apr 125 May 5 7 9 12 16 24 25 30 31 June 7 12 19 23 25 27 July 2 7 10 12 26 Aug 2 8 9 20 29 30
During erection on board vessel -- 31. Sept 6 10 12 18 21 27 Oct 1 6 10 11 14 26 31 Nov 3 12 13 14 20 23 27 Dec 3 4 8 8 11 13 18 21 24 26 29 1918 Jan 6 10 16 17
Total No. of visits 100
Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts - Cylinders 27 9 17 Slides 17 1 18 Covers 12 9 17 Pistons 17 1 18 Rods 27 9 17
Connecting rods 5 2 18 Crank shaft 5 2 18 Thrust shaft 5 1 18 Tunnel shafts 8 1 18 Screw shaft 8 1 18 Propeller
Stern tube 17 1 18 Steam pipes tested Engine and boiler settings Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Main boiler safety valves adjusted Thickness of adjusting washers
Material of Crank shaft Steel Identification Mark on Do. 527 DE Material of Thrust shaft Steel Identification Mark on Do. 1255 JP.
Material of Tunnel shafts Steel Identification Marks on Do. 1245 1236 1942 18 69 J.P. 7th REM Identification Marks on Do. 1731 JP.
Material of Steam Pipes Test pressure
Is an installation fitted for burning oil fuel 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 Standard Class A

General Remarks (State quality of workmanship, opinion as to class, &c. The Engines have been built under Special Survey the materials and workmanship are good - The Engines have been forwarded to Messrs. Polaris & Co. Stockton on Tees.

Certificate (if required) to be sent to

The amount of Entry Fee ... £
Special ... £ 58 11 6
Donkey Boiler Fee ... £
Travelling Expenses (if any) £

When applied for, 19
When received, 9 11 18

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

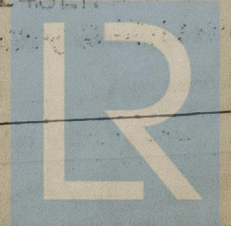
Committee's Minute

Assigned Deferred

GLASGOW

9 JUL 1918

TUE 24 SEP 1918



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