

REPORT ON MACHINERY.

No. 17513.

Received at London Office

Date of writing Report 22/9 1919 When handed in at Local Office 23rd Aug. 1919 Port of Greenock WED. 3 SEP 1919
 in Survey held at Port - Glasgow Date, First Survey 20th June, 1919 Last Survey 24th June, 1919
 Book. on the Steel Steamship "Luar Diwan" (Number of Visits 3)
 Master J. L. Glover Built at Port - Glasgow By whom built Lithgown's Limited Tons Gross 5542.79
 Lines made at Glasgow By whom made David Rowan & Co. Net 3446.11
 Makers made at _____ When built 1919
 Registered Horse Power _____ Owners The Shipping Controller Port belonging to London
 Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

GINES, &c.—Description of Engines
 No. of Cylinders _____ No. of Cranks _____
 Length of Stroke _____ Revs. per minute _____ Dia. of Screw shaft _____ Material of screw shaft _____
 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 _____
 Is the space charged with a plastic material insoluble in water and non-corrosive _____ If two _____
 Is the shaft lapped or protected between the liners _____ Length of stern bush _____
 Dia. of Crank shaft journals _____ 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 _____
 Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____
 In Holds, &c. _____

Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine room & size _____
 Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
 Are they Valves or Cocks _____
 Are the Discharge Pipes above or below the deep water line _____
 Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 How are they protected _____
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 Is it fitted with a watertight door _____ worked from _____

MANUFACTURERS, &c.—(Letter for record) _____ **Manufacturers of Steel** _____
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** _____
Pressure to which they are adjusted _____ **Are they fitted with easing gear** _____
Mean dia. of boilers _____ **Length** _____ **Material of shell plates** _____
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** _____
Combustion chamber plates: Material _____ **Thickness: Sides** _____ **Back** _____ **Top** _____ **Bottom** _____
If stays are fitted with nuts or riveted heads _____ **Working pressure by rules** _____
Area supported by each stay _____ **Working pressure by rules** _____ **End plates in steam space:** _____
How are stays secured _____ **Working pressure by rules** _____ **Material of stays** _____
Material of Front plates at bottom _____
Greatest pitch of stays _____ **Working pressure of plate by rules** _____
Material of tube plates _____ **Thickness: Front** _____ **Back** _____ **Mean pitch of stays** _____
Girders to Chamber tops: Material _____ **Depth and** _____
Distance apart _____ **Number and pitch of stays in each** _____
% of strength of joint _____
Description of longitudinal joint _____ **Diam. of rivet holes** _____
Working pressure of shell by rules _____ **Crown plates** _____ **Thickness** _____ **How stayed** _____
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** _____

W269-0111

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - (1919) - June 20 - 23 - 24: -
During erection on board vessel - - - 3.
Total No. of visits

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 Steam pipes tested Engine and boiler seatings Engines holding down bolts
Completion of pumping arrangements 20-6-19 Boilers fixed Engines tried under steam
Completion of fitting sea connections 20-6-19 Stern tube 20-6-19 Screw shaft and propeller 20-6-19
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 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.)

Vessel taken to Glasgow for Machining and Boilers.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ : : 19
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19

Committee's Minute GLASGOW -2 SEP.1919

Assigned See accompanying machinery report.

Guarham Robertson.
Engineer Surveyor to Lloyd's Register of Shipping.



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