

REPORT ON OIL ENGINE MACHINERY.

No. 17874

Writing Report 15th August 1921 When handed in at Local Office

Received at London Office WED. 12 OCT. 1921

Survey held at Port - Glasgow.

15/9/1921. Port of Glasgow.

Date, First Survey 30th Dec 1920. Last Survey 8th Aug. 1921.

Number of Visits 14.

on the Single } Screw vessels, Motor Ship "MALIA"

Tons { Gross 3872
Net 2337

Built at Port - Glasgow. By whom built Wm. Hamilton & Co. Ltd. Yard No. 377. When built 1921.

Boilers made at _____ By whom made _____ Engine No. _____ When made _____

Boilers made at _____ By whom made _____ Boiler No. _____ When made _____

Horse Power _____ Owners _____ Port belonging to _____

Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Type of Engines _____ 2 or 4 stroke cycle _____ Single or double acting _____

Pressure in cylinders _____ No. of cylinders _____ No. of cranks _____ Diameter of cylinders _____

Stroke _____ Revolutions per minute _____ Means of ignition _____ Kind of fuel used _____

Bearing between each crank _____ Span of bearings (Page 92, Section 2, par. 7 of Rules) _____

Distance between centres of main bearings _____ Is a flywheel fitted _____ Diameter of crank shaft journals _____ as per Rule as fitted

Distance of crank pins _____ Breadth of crank webs _____ as per Rule as fitted Thickness of ditto _____ as per Rule as fitted

Distance of flywheel shaft _____ as per Rule as fitted Diameter of tunnel shaft _____ as per Rule as fitted Diameter of thrust shaft _____ as per Rule as fitted

Distance of screw shaft _____ as per Rule as fitted Is the screw shaft fitted with a continuous liner the whole length of the stern tube _____

End of the liner made watertight in the propeller boss _____ If the liner is in more than one length are the joints burned _____

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 _____

Are liners fitted, is the shaft lapped or protected between the liners _____ If without liners, is the shaft arranged to run in oil _____

Water gland fitted to stern tube _____ Length of stern bush _____ Diameter of propeller _____

Propeller _____ No. of blades _____ state whether moveable _____ Total surface _____ square feet

Reversing _____ Is a governor or other arrangement fitted to prevent racing of the engine when declutched _____ Thickness of cylinder liners _____

Cylinders fitted with safety valves _____ Means of lubrication _____ Are the exhaust pipes and silencers water cooled or lagged with _____

Insulating material _____ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine _____

No. of cooling water pumps _____ Is the sea suction provided with an efficient strainer which can be cleared _____

essel _____ No. of bilge pumps fitted to the main engines _____ Diameter of ditto _____ Stroke _____

Overhauled while the other is at work _____ No. of auxiliary pumps connected to the main bilge lines _____ How driven _____

os _____ No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps:—In engine room _____

etc. _____ No. of ballast pumps _____ How driven _____ Sizes of pumps _____

ump fitted with a direct suction from the engine room bilges _____ State size _____ Is a separate auxiliary pump suction fitted in _____

and size _____ Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine Room always accessible _____

ns on Engine Room bulkheads always accessible _____ Are all connections with the sea direct on the skin of the ship Yes.

ves or cocks Both. Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates _____

arge pipes above or below the deep water line _____ Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes.

cocks, valves and pumps in connection with the machinery accessible at all times _____ Are the bilge suction pipes, cocks and valves arranged so as to prevent any _____

n between the sea and the bilges _____ Is the screw shaft tunnel watertight _____ Is it fitted with a watertight door _____

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork _____

air compressors _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

ry air compressors _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

auxiliary air compressors _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

ing air pumps _____ Diameter _____ Stroke _____ Driven by _____

iliary Diesel Engine crank shafts _____ as per Rule as fitted Are the air compressors and their coolers made so as to be easy of access _____

EIVERS:—No of high pressure air receivers _____ Internal diameter _____ Cubic capacity of each _____

Seamless, lap welded or riveted longitudinal joint _____ Range of tensile strength _____

working pressure by Rules _____ No. of starting air receivers _____ Internal diameter _____

city _____ Material _____ Seamless, lap welded or riveted longitudinal joint _____

strength _____ thickness _____ Working pressure by rules _____ Is each receiver, which can be isolated, _____

ty valve as per Rule _____ Can the internal surfaces of the receivers be examined _____ What means are provided for cleaning their _____

Is there a drain arrangement fitted at the lowest part of each receiver _____

007620 - 007625 - 0116



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

HYDRAULIC TESTS:—

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS					
" " COVERS					
" " JACKETS.....					
" PISTON WATER PASSAGES.....					
MAIN COMPRESSORS—1st STAGE.....					
" 2nd "					
" 3rd "					
AIR RECEIVERS—STARTING					
" INJECTION					
AIR PIPES					
FUEL PIPES					
FUEL PUMPS					
SILENCER					
" WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for shafting
(If not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits 14.

1920. Dec. 20. 1921. Jan. 13. Feb. 18. Mar. 7. Apr. 1. 20. 28. May. 4. June 3. 6. 23. July 19. Aug. 2. 8.

Dates of Examination of principal parts—Cylinders Covers Pistons Rods Connecting rods
 Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller Stern tube Engine seatings
 Engines holding down bolts P 4-5-21 S 2-8-21 Completion of pumping arrangements Engines tried under working conditions
 Completion of fitting sea connections 7-3-21. Stern tube 7-3-21. Screw shaft and propeller 7-3-21
 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.

Is the flash point of the oil to be used over 150° F.

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 completion of Machinery installation.
 The port main engine, the auxiliary machinery, and bed. starboard main engine, are efficiently fitted. See letter dated Greenock 11th August 1921.

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

Graham Robertson
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

GLASGOW

11 OCT 1921

Assigned See G.L. Rpt. 41414



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