

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 11<sup>th</sup> Nov. 1933 When handed in at Local Office 23<sup>rd</sup> Nov. 1933 Port of Greenock.  
 No. in Survey held at Port Glasgow. Date, First Survey 5<sup>th</sup> Oct. 1933 Last Survey 10<sup>th</sup> Nov 1933  
 Reg. Book. on the SS "HARGALO" (Number of Visits 2)  
 Built at Port Glasgow. By whom built Lithgown & Co. Yard No. 863 Tons { Gross 5081  
 Engines made at Glasgow By whom made D. Rowan & Co. Ltd Engine No. When made  
 Boilers made at " By whom made " Boiler No. When made  
 Registered Horse Power Owners J & C. Harrison & Co. (Mgns) Port belonging to London.  
 Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted  
 For which Vessel is intended

## MACHINERY, &amp;c.—Description of Engines

Revs. per minute  
 No. of Cylinders No. of Cranks  
 Length of Stroke  
 Crank pin dia. Crank webs Mid. length breadth Mid. length thickness  
 Thickness parallel to axis Thickness around eye-hole  
 Thrust shaft, diameter at collars  
 Is the tube screw shaft fitted with a continuous liner  
 Is the after end of the liner made watertight in the  
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner  
 Is an approved Oil Gland or other appliance fitted at the after end of the tube  
 Length of Bearing in Stern Bush next to and supporting propeller  
 Total Developed Surface sq. feet  
 Can one be overhauled while the other is at work  
 Can one be overhauled while the other is at work  
 Lubricating Oil Pumps, including Spare Pump, No. and size  
 Suctions, connected to both Main Bilge Pumps and Auxiliary  
 In Holds, &c. No. 1 Hold 2-3", No. 2 Hold 2-3 1/2", Cross bunker 2-2",  
 No. 3 Hold 4-2 1/2", No. 4 Hold 2-3".  
 Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes  
 Are they fitted with Valves or Cocks  
 Are the Overboard Discharges above or below the deep water line  
 Are the Blow Off Cocks fitted with a spigot and brass covering plate  
 How are they protected  
 Have they been tested as per Rule  
 Is the Shaft Tunnel watertight  
 Is it fitted with a watertight door  
 worked from

## IN BOILERS, &amp;c.—(Letter for record)

Total Heating Surface of Boilers

Forced Draft fitted

No. and Description of Boilers

Working Pressure

A REPORT ON MAIN BOILERS NOW FORWARDED?

A DONKEY BOILER FITTED?

If so, is a report now forwarded?

The donkey boiler intended to be used for domestic purposes only

Are approved plans forwarded herewith for Shafting  
 (If not state date of approval)

Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

## SPARE GEAR.

Is the spare gear required by the Rules been supplied

Is the principal additional spare gear supplied

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register

Foundation

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

Dates of Examination of principal parts—Cylinders Slides Covers  
Pistons Piston Rods Connecting rods  
Crank shaft Thrust shaft Intermediate shafts  
Tube shaft Screw shaft Propeller  
Stern tube Engine and boiler seatings 5-10-33. Engines holding down bolts  
Completion of fitting sea connections 5-10-33.  
Completion of pumping arrangements 10-11-33. Boilers fixed Engines tried under steam  
Main boiler safety valves adjusted Thickness of adjusting washers  
Crank shaft material Identification Mark Thrust shaft material Identification Mark  
Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark  
Screw shaft, material Identification Mark Steam Pipes, material Test pressure Date of Test  
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 the Rules for the use of oil as fuel been complied with  
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with  
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with  
Is this machinery duplicate of a previous case Yes If so, state name of vessel SS "HARBURY".

General Remarks (State quality of workmanship, opinions as to class, &c. The propeller, tail shaft, stern tube & sea connections & fastenings have been satisfactorily fitted on board. The bilge pumping arrangements in the holds have been fitted in accordance with the Rules & approved plans, tried & found satisfactory.

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Vertical to be sent to  
The Surveyors are requested not to write on or below the space for Committee's Minute.

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

Committee's Minute GLASGOW 28 NOV 1933

Assigned See Gls. Rpt. No. 54023

J. D. Avey

Engineer Surveyor to Lloyd's Register of Shipping



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