

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-1 OCT 1925

Date of writing Report 5th Sept: 1925 When handed in at Local Office 24 Sept: 1925 Port of Glasgow  
No. in Survey held at Port Glasgow Date, First Survey 27th June, 1925 Last Survey 26th August, 1925  
Reg. Book. on the SS "ALOE" (Number of Visits 4) Tons Gross  
Built at Port Glasgow By whom built Messrs R. Duncan & Co. Ltd Yard No. 365 When built 1925  
Engines made at Glasgow By whom made H. Rowan & Co. Ltd Engine No. when made  
Boilers made at Glasgow By whom made H. Rowan & Co. Ltd Boiler No. when made  
Registered Horse Power Owners Port belonging to   
Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

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

Dia. of Cylinders Length of Stroke Revs. per minute No. of Cylinders No. of Cranks  
Dia. of Crank shaft journals as per rule Dia. of Crank pin Crank webs Mid. length breadth shrunk Thickness parallel to axis  
as fitted as per rule as fitted Mid. length thickness Thickness around eye-hole  
Diameter of Thrust shaft under collars as per rule Diameter of Tunnel shaft as per rule Diameter of Screw shaft as per rule Is the Screw shaft  
as fitted as fitted as fitted as fitted  
fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made watertight in the 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  
between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive Is an approved appliance fitted at the after end of the shaft to permit  
If two liners are fitted, is the shaft lapped or protected between the liners of it being efficiently lubricated  
Pitch of Propeller No. of Blades State whether Moveable Total Surface square feet.  
No. of Feed Pumps fitted to the Main Engines Diameter of ditto Stroke Can one be overhauled while the other is at work  
No. of Bilge Pumps fitted to the Main Engines Diameter of ditto Stroke Can one be overhauled while the other is at work  
Total number and size of power driven Feed and Bilge Auxiliary Pumps  
No. and size of Pumps connected to the Main Bilge Line  
No. and size of Ballast Pumps No. and size of Lubricating Oil Pumps, including Spare Pump  
Are two independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary  
Bilge Pumps;—In Engine and Boiler Room and in Holds, &c.

No. and size of Main Water Circulating Pump Bilge Suctions No. and size of Donkey Pump Direct Suctions  
to the Engine Room Bilges Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes  
Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges  
Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks  
Are they size 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  
Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record ) Total Heating Surface of Boilers 

Is Forced Draft fitted No. and Description of Boilers Working Pressure

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers  
(If not state date of approval) Oil fuel Burning Piping Arrangements

General Pumping Arrangements SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register  
Foundation

M165 0023



(1925) June 29. Aug. 4. 19. 16.  
During progress of work in shops - -  
Dates of Survey while building  
During erection on board vessel - - -  
Total No. of visits 4

Dates of Examination of principal parts - Cylinders Slides  
Covers Pistons Rods  
Connecting rods Crank shaft Thrust shaft  
Tunnel shafts Screw shaft Propeller  
Stern tube Engine and boiler seatings 19-8-25. Engines holding down bolts  
Completion of pumping arrangements Boilers fixed Engines tried under steam  
Completion of fitting sea connections 19-8-25. Stern tube 4-8-25 Screw shaft and propeller boss. 26-8-25.  
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 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 carrying and burning oil fuel 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.)  
The engine and boiler seatings, sea connections, stern tube, screw shaft and propeller boss have been well fitted on board.  
The vessel has now left for Glasgow for installation of machinery.  
Glasgow Surveyors notified.

4887  
24/9/25

Certificate 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

J. D. Avey  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6-OCT 1925  
Assigned See G. R. No. 45047 W.M.