

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

30 JAN 1929

7.9 of writing Report 3<sup>rd</sup> January 1929 When handed in at Local Office 3<sup>rd</sup> January 1929 Port of Greenock  
 in Survey held at Port Glasgow Date, First Survey 7-11-28 Last Survey 29th November 1928  
 Book. (Number of Visits 3)  
 on the SS "VACUOLINE" Tons { Gross 8640  
 Net 5222  
 at Port Glasgow By whom built Lithgows Ltd Yard No. 820 When built 1929  
 Engines made at Glasgow By whom made D. Rowan & Co Ltd Engine No. ✓ when made 1929  
 Boilers made at - By whom made - Boiler No. ✓ when made 1929  
 Registered Horse Power ✓ Owners Vacuum Oil Company Ltd Port belonging to London  
 Horse Power as per Rule ✓ Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted yes  
 Use for which Vessel is intended Foreign

**ENGINES, &c.**—Description of Engines Quadruple Expansion Revs. per minute ✓  
 No. of Cylinders ✓ Length of Stroke ✓ No. of Cranks ✓ No. of Cranks ✓  
 Crank shaft, dia. of journals ✓ as per Rule ✓ Crank pin dia. ✓ Crank webs ✓ Mid. length breadth ✓ Thickness parallel to axis ✓  
 as fitted ✓ Mid. length thickness ✓ shrunk ✓ Thickness around eye-hole ✓  
 Intermediate Shafts, diameter ✓ as per Rule ✓ Thrust shaft, diameter at collars ✓ as per Rule ✓  
 as fitted ✓ as fitted ✓ Is the { tube } shaft fitted with a continuous liner { ✓  
 { screw } ✓  
 Main Shafts, diameter ✓ as per Rule ✓ Screw Shaft, diameter ✓ as per Rule ✓ Is the after end of the liner made watertight in the  
 as fitted ✓ as fitted ✓ Thickness between bushes ✓ as per Rule ✓ as fitted ✓  
 Is the after end of the liner made watertight in the  
 after end of the liner yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓  
 Does the liner do 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 ✓  
 If two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an approved Oil Gland or other appliance fitted at the after  
 end of the tube shaft No Length of Bearing in Stern Bush next to and supporting propeller ✓  
 Propeller, dia. ✓ Pitch ✓ No. of Blades ✓ Material ✓ whether Moveable ✓ Total Developed Surface ✓ sq. feet  
 Main Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓  
 Bilge Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓  
 Main Pumps { No. and size ✓ Pumps connected to the { No. and size ✓  
 { How driven ✓ Main Bilge Line { How driven ✓  
 Main Pumps, No. and size ✓ Lubricating Oil Pumps, including Spare Pump, No. and size ✓  
 Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room ✓  
 Holds, &c. ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size ✓ 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 Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks both  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates ✓ Are the Overboard Discharges above or below the deep water line above  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes  
 Do all Pipes pass through the bunkers ✓ How are they protected ✓  
 Do all pipes pass through the deep tanks ✓ Have they been tested as per Rule ✓  
 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 Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

**MAIN BOILERS, &c.**—(Letter for record ✓) Total Heating Surface of Boilers ✓  
 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? ✓  
 Are approved plans forwarded herewith for Shafting ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓  
 (If not state date of approval)  
 Superheaters ✓ General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓  
 APPROPRIATE GEAR. State the articles supplied:— ✓

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

003534-003540-0137

During progress of work in shops - -  
 (1928) Nov. 4. 26. 29.  
 During erection on board vessel - - -  
 Total No. of visits 3.

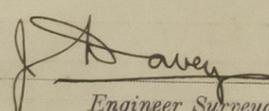
Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓  
 Pistons ✓ Piston Rods ✓ Connecting rods ✓  
 Crank shaft ✓ Thrust shaft ✓ Intermediate shafts ✓  
 Tube shaft ✓ Screw shaft ✓ Propeller ✓  
 Stern tube ✓ Engine and boiler seatings 4/11/28 Engines holding down bolts ✓  
 Completion of fitting sea connections 26/11/28  
 Completion of pumping arrangements ✓ 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 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 sea connections, stern tube, tail shaft and propeller have been satisfactorily fitted on board. The vessel has left for Glasgow for installation of machinery. Glasgow Surveyors notified. ✓

3/1/29

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

  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW** 29 JAN 1929 JMA

Assigned See Gls. Rpt No 48782