

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

30 JAN 1929

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" Gross 8640 Tons Net 5222  
at Port Glasgow By whom built Lithgows Ltd Yard No. 820 When built 1929  
ines made at Glasgow By whom made D. Rowan & Co Ltd Engine No. ✓ when made 1929  
8 lers made at " By whom made " Boiler No. ✓ when made 1929  
istered Horse Power ✓ Owners Vacuum Oil Company Ltd Port belonging to London  
a. Horse Power as per Rule ✓ Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted yes  
de for which Vessel is intended Foreign

GINES, &c.—Description of Engines Quadruple Expansion Revs. per minute ✓  
of Cylinders ✓ Length of Stroke ✓ No. of Cylinders ✓ No. of Cranks ✓  
ank 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 ✓  
e Shafts, diameter as per Rule ✓ Screw Shaft, diameter as per Rule ✓ Is the { tube } shaft fitted with a continuous liner { ✓  
as fitted ✓ as fitted ✓ { screw } ✓  
2 onze Liners, thickness in way of bushes as per Rule ✓ Thickness between bushes as per Rule ✓ Is the after end of the liner made watertight in the  
as fitted ✓ as fitted ✓ ✓  
eller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓  
he liner 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 ✓  
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  
of the tube shaft No Length of Bearing in Stern Bush next to and supporting propeller ✓  
ppeller, dia. ✓ Pitch ✓ No. of Blades ✓ Material ✓ whether Moveable ✓ Total Developed Surface ✓ sq. feet  
d Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓  
ge Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓  
ed { No. and size ✓ Pumps connected to the { No. and size ✓  
mps { How driven ✓ Main Bilge Line { How driven ✓  
last Pumps, No. and size ✓ Lubricating Oil Pumps, including Spare Pump, No. and size ✓  
two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary  
ge Pumps;—In Engine and Boiler Room ✓  
9 Holds, &c. ✓

in Water Circulating Pump Direct Bilge Suctions, No. and size ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges,  
and size ✓ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes ✓  
e 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 ✓  
e all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks both  
e 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  
e 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  
at Pipes pass through the bunkers ✓ How are they protected ✓  
at pipes pass through the deep tanks ✓ Have they been tested as per Rule ✓  
e all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ✓  
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  
partment 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 ✓  
S A REPORT ON MAIN BOILERS NOW FORWARDED? ✓  
S A DONKEY BOILER FITTED? ✓ If so, is a report now forwarded? ✓  
LANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓  
(If not state date of approval)  
perheaters ✓ General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓  
PARE GEAR. State the articles supplied:— ✓

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building  
 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.

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 29 JAN 1929 JMA

Assigned See Gls. Rpt No 48782

