

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

13 MAR 1926

Received at London Office

Date of writing Report 3-5-1926 When handed in at Local Office 4-5-1926, Port of Greenock.

No. in Survey held at Greenock. Date, First Survey 3rd November 1924. Last Survey 5th May 1926.
 Reg. Book. on the SS "QUERCUS" (Number of Visits 11)

Built at Greenock. By whom built Jurlop Bremner & Co. Ltd Yard No. 350 Tons Gross 2694
Net 2539
 When built 1926

Engines made at Glasgow By whom made J. Rowan & Co. Ltd. Engine No. 496 when made 1926

Boilers made at " By whom made " Boiler No. 496 when made 1926

Registered Horse Power Owners Arbor Shipping Company Ltd. Port belonging to London.

Nom. Horse Power as per Rule 250 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines

Dia. of Cylinders Length of Stroke Revs. per minute 68 No. of Cylinders No. of Cranks

Dia. of Crank shaft journals as per rule Dia. of Crank pin Crank webs Mid. length breadth Thickness parallel to axis
 as fitted Mid. length thickness shrunk 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

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 Yes.
See Glasgow Report No 45430 If the liner does not fit tightly at the part
 If the liner is in more than one length are the joints burned between the bearings in the stern tube, is the space charged with 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 appliance fitted at the after end of the shaft to permit
 of it being efficiently lubricated Length of Stern Bush Diameter of Propeller

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 3 - 8" x 10" x 8. 8" x 5" x 8. 6 1/2" x 4" x 6. ✓
3 - 8" x 10" x 8 8" x 5" x 8 6 1/2" x 4" x 6. ✓

No. and size of Pumps connected to the Main Bilge Line

No. and size of Ballast Pumps 1 - 8" x 10" x 8" ✓ No. and size of Lubricating Oil Pumps, including Spare Pump None ✓

Are two independent means arranged for circulating water through the Oil Cooler ✓ No. and size of suctions connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 3 - 2 1/2" Tunnel Well 1 - 2 1/2" ✓ and in Holds, &c. N^o 1, 2 - 2 1/2" N^o 2, 2 - 3" ✓
N^o 3, 2 - 3 1/4" ✓

No. and size of Main Water Circulating Pump Bilge Suctions One at 4 1/2" ✓ No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges One - 4" ✓ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes ✓

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 Yes ✓

Are all connections with the sea direct on the skin of the ship Yes ✓ Are they Valves or Cocks both.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes ✓ Are the Discharge Pipes 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 ✓

What Pipes are carried through the bunkers None ✓ How are they protected ✓

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.

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 Yes ✓ Is the Screw Shaft Tunnel watertight Yes ✓ Is it fitted with a watertight door Yes ✓ worked from Eng. Loft ✓

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 4062 sq ft

Is Forced Draft fitted No. No. and Description of Boilers 2, S.B. ✓ Working Pressure 180

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes. ✓

IS A DONKEY BOILER FITTED? No ✓ If so, is a report now forwarded? ✓

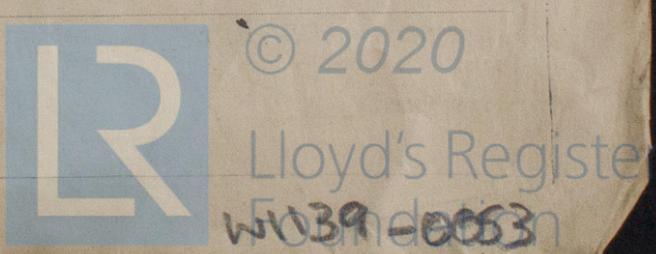
PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers Yes Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)

General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—2 Connecting rod top end bolts and nuts. ✓
2 Connecting rod bottom end bolts and nuts. ✓ 2 Main bearing bolts. ✓
1 set of coupling bolts. ✓ 1 set of feed and bilge pump valves. ✓
1 set of Piston Springs. ✓ A quantity of assorted bolts and nuts. ✓
Iron of various sizes. ✓

The foregoing is a correct description
 For David Rowan & Co Ltd
 Arch. H. Grierson

Manufacturer.



(1924) hours: (1925) Jan 27. Feb 9. (1926) Feb 17. 22. Mar 2. 5. 15. 26. 31. May 5.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel ---
 Total No. of visits 11.

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 9-2-25 Engines holding down bolts 5-3-26.
 Completion of pumping arrangements 26-3-26 Boilers fixed 22-2-26. Engines tried under steam 26-3-26.
 Completion of fitting sea connections 3-11-24. Stern tube 3-11-24. Screw shaft and propeller 24-1-25.
 Main boiler safety valves adjusted 26-3-26. Thickness of adjusting washers P 3/8 S 1/4 B P 3/8 S 3/8
 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 Lapwelded Steel Test pressure 540 lbs. Date of Test 1-3-26.
 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 machinery has been well fitted on board the vessel, and tried under full power with satisfactory results. The vessel is eligible in my opinion to be classed in the Register Book, with record of survey + LMC 5-26. as recommended in Glasgow Report 45430.

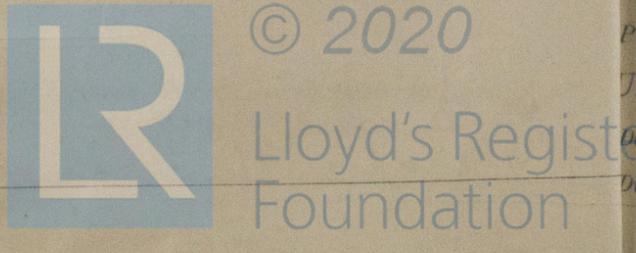
It is submitted that this vessel is eligible for THE RECORD. + LMC 5. 26. CL.

[Signature]
 20/5/26

The amount of Entry Fee ... £ 15 : 10 :
 Special ... £ 12 : 10 :
 Donkey Boiler Fee ... £ 45.430 :
 Travelling Expenses (if any) £ : :
 When applied for, from Feb. 19
 When received, 19

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 11 MAY 1926
 Assigned + LMC 526



5/15/26

Certificate to be sent to

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

CERTIFICATE WRITTEN IN PENCIL