

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

JAN 19 1938

Date of writing Report 19... When handed in at Local Office 15: 1: 10 38 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 28: 6: 37 Last Survey 14-1-1938
 Reg. Book on the new steel S/S "NORMAN QUEEN" (Number of Visits 42)
 Built at Burntisland By whom built Burntisland SBCo Ltd Yard No. 216 When built 1938
 Engines made at Glasgow By whom made David Rowan & Co Ltd Engine No. 1014 When made 1938
 Boilers made at Glasgow By whom made David Rowan & Co Ltd Boiler No. 1014 When made 1938
 Registered Horse Power Owners London & Channel Islands SBCo Ltd Port belonging to London
 Nom. Horse Power as per Rule 129 ✓ Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute
 Dia. of Cylinders 14"-24"-40" ✓ Length of Stroke 27" ✓ No. of Cylinders 3 ✓ No. of Cranks 3 ✓
 Crank shaft, dia. of journals as per Rule 7.707" ✓ as fitted 7 3/4" ✓ Crank pin dia. 7 3/4" ✓ Crank webs Mid. length breadth 11" ✓ Thickness parallel to axis 5" ✓
 Intermediate Shafts, diameter as per Rule 7.34" ✓ as fitted none ✓ Thrust shaft, diameter at collars as per Rule 7.07" ✓ as fitted 8" ✓
 Tube Shafts, diameter as per Rule 8.66" ✓ as fitted 9 1/4" ✓ Is the { tube } shaft fitted with a continuous liner { no liner } ✓
 Screw Shaft, diameter as per Rule 8.66" ✓ as fitted 9 1/4" ✓ Is the { screw } shaft fitted with a continuous liner { no liner } ✓
 Bronze Liners, thickness in way of bushes as per Rule — as fitted — Thickness between bushes as per Rule — as fitted — Is the after end of the liner made watertight in the propeller boss —
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner —
 If the 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 —
 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 yes ✓ If so, state type bedenval ✓ Length of Bearing in Stern Bush next to and supporting propeller 3 1/2" ✓
 Propeller, dia. 10'-8" ✓ Pitch 11'-9" ✓ No. of Blades 4 ✓ Material cast iron whether Moveable no ✓ Total Developed Surface 40.3 ✓ sq. feet
 Feed Pumps worked from the Main Engines, No. 2 ✓ Diameter 2 1/2" ✓ Stroke 14" ✓ Can one be overhauled while the other is at work yes ✓
 Bilge Pumps worked from the Main Engines, No. 2 ✓ Di. meter 2 3/4" ✓ Stroke 14" ✓ Can one be overhauled while the other is at work yes ✓
 Feed Pumps { No. and size one @ 7"-8 1/2" x 21" ✓ How driven steam ✓ } Pumps connected to the Main Bilge Line { No. and size Ballast pump ✓ How driven steam ✓ }
 Ballast Pumps, No. and size one @ 6"-4" x 6" ✓ Lubricating Oil Pumps, including Spare Pump, No. and size none ✓
 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 —
 In Pump Room — In 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 — Are they fitted with Valves or Cocks —
 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 —
 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 pass through the bunkers — How are they protected —
 What 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 (S) ✓) Total Heating Surface of Boilers 1953 sq ft ✓
 Is Forced Draft fitted yes ✓ No. and Description of Boilers 1 S.B. ✓ Working Pressure 200 ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes ✓
 IS A DONKEY BOILER FITTED? no ✓ If so, is a report now forwarded? —
 Is the donkey boiler intended to be used for domestic purposes only —
 PLANS. Are approved plans forwarded herewith for Shafting no ✓ Main Boilers yes ✓ Auxiliary Boilers — Donkey Boilers —
 Superheaters — General Pumping Arrangements no ✓ Oil fuel Burning Piping Arrangements —

SPARE GEAR.

Has the spare gear required by the Rules been supplied —
 State the principal additional spare gear supplied —

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



W/110-0078

1937 June: 28 Aug: 12. 26 Sep: 6. 7. 8. 14. 15. 21. 22. 23. 24. 28. 29. 30 Oct: 5. 6. 7. 8
 During progress of work in shops -- 11. 13. 26 Nov: 1. 2. 4. 9. 11. 12. 15. 16. 18. 24. 29 Dec: 3. 6. 8. 9. 20. 21. 27. 29 (1938) Jan
 Dates of Survey while building }
 During erection on board vessel --- } 14
 Total No. of visits 42

Dates of Examination of principal parts—Cylinders 13-10-37 Slides 8-12-37 Covers 13-10-37
 Pistons 24-11-37 Piston Rods 3-12-37 Connecting rods 30-9-37
 Crank shaft 11-11-37 Thrust shaft 29-11-37 Intermediate shafts none ✓
 Tube shaft none ✓ Screw shaft 21-12-37 Propeller 21-12-37 ✓
 Stern tube 20-12-37 Engine and boiler seatings 14 ✓ Engines holding down bolts 14 ✓
 Completion of fitting sea connections 14 ✓
 Completion of pumping arrangements 14 ✓ Boilers fixed 14 ✓ Engines tried under steam 14 ✓
 Main boiler safety valves adjusted 14 ✓ Thickness of adjusting washers 14 ✓
 Crank shaft material J. steel ✓ Identification Mark * LLOYD'S No 7568 P.F.D. 11-11-37 Thrust shaft material 9. steel ✓ Identification Mark * LLOYD'S No 7568 L.C.D. 29-11-37
 Intermediate shafts, material none ✓ Identification Marks Tube shaft, material none ✓ Identification Mark
 Screw shaft, material 9. steel ✓ Identification Mark * LLOYD'S No 7568 H.C. 21-12-37 Steam Pipes, material copper ✓ Test pressure 400 lb ✓ Date of Test
 Is an installation fitted for burning oil fuel no ✓ 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 no ✓ 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 "Jersey Queen" Esb Rpt. No 57641

General Remarks (State quality of workmanship, opinions as to class, &c.)
 * In addition to these marks the original numbers are stamped on each finished shaft and rod - as per faging Reports hereunto ✓
 The materials and workmanship are good ✓
 The machinery has been constructed under Special Survey and sent to Burntisland to be fitted in the vessel. ✓
 In my opinion it will be eligible for classification and the record + LMC (with date) when satisfactorily fitted in the vessel ✓
 15/1/38

GLASGOW (On Completion)

The amount of Entry Fee ... £ 3 : :
 4/5 Special due for age... £ 25 : 16 :
 1/5 Donkey Boiler Fee ... £ 6 : 9 :
 Travelling Expenses (if any) £ : :
 When applied for, 18 JAN 1938
 When received, 8/2 19 38

S. L. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 18 JAN 1938

FRI. 18 FEB 1938


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Assigned Defered

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