

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 3-3-1941 When handed in at Local Office 3-3-1941 Port of Leith
 No. in Survey held at Burntisland Date, First Survey 24-12-40 Last Survey 27-2-1941
 Reg. Book. 90218 on the S.S. "TUJOR QUEEN." (Number of Visits 8)
 Built at Burntisland By whom built Burntisland S. B. Co. Ltd. Yard No. 247 Tons { Gross 1029
 Engines made at Glasgow By whom made David Rowan & Co. Ltd. Engine No. 1062 Net 582
 Boilers made at It. By whom made It. Boiler No. 1062 When built 1941
 Registered Horse Power ✓ Owners British Channel Islands Shipping Co. Ltd. Port belonging to London When made 1941
 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 Revs. per minute 100 (LIGHT VESSEL)

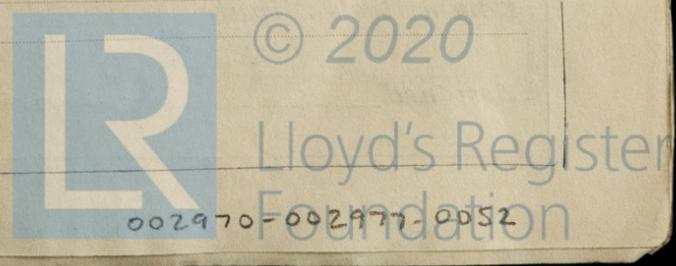
Dia. of Cylinders _____ Length of Stroke _____ No. of Cylinders _____ No. of Cranks _____
 Crank shaft, dia. of journals _____ as per Rule _____ Crank pin dia. _____ Crank webs _____ Mid. length breadth _____ Thickness parallel to axis _____
 as fitted _____ Crank webs _____ Mid. length thickness _____ Thickness around eye-hole _____
 Intermediate Shafts, diameter _____ as per Rule _____ Thrust shaft, diameter at collars _____ as per Rule _____
 as fitted _____ Is the { tube } shaft fitted with a continuous liner { _____
 Tube Shafts, diameter _____ as per Rule _____ Screw Shaft, diameter _____ as fitted _____
 as fitted _____ Is the after end of the liner made watertight in the
 propeller boss _____ If the liner is in more than one length 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 _____ If so, state type _____ 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
 Feed 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
 Feed Pumps { No. and size _____ Pumps connected to the { No. and size 2 on Main Engines Ballast Pump Gen. Service Pump
 { How driven _____ Main Bilge Line { How driven _____ Steam 7" x 8 1/2" Steam 6" x 4 1/2"
 Lubricating Oil Pumps, including Spare Pump, No. and size _____
 Are two independent means arranged for circulating water through the Oil Cooler _____
 Bilge Pumps;—In Engine and Boiler Room 1 at 2 1/2" dia. forward of main engine (centre) Suctions, connected to both Main Bilge Pumps and Auxiliary
 In Pump Room 1 at 2 1/2" dia. forward of main engine (centre) 1 aft. Stan. side 2 1/2" dia. 1 Stan. side 3" dia.
 Main Water Circulating Pump Direct Bilge Suctions, No. and size one at 4" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size one at 3" dia. 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 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 Yes. Are the Overboard Discharges above or below the deep water line MAIN DISCHARGE BELOW, OTHERS 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 pass through the bunkers Bilge Suctions How are they protected Wood ceiling
 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 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 Shaft Tunnel watertight Engine aft Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____
 Which Boilers are fitted with Forced Draft _____ Which Boilers are fitted with Superheaters _____
 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? _____
 Can the donkey boiler be used for domestic purposes only See Glasgow Rpt No. 63390.
 PLANS. 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 _____

SPARE GEAR.
 Has the spare gear required by the Rules been supplied See list.
 State the principal additional spare gear supplied _____

The foregoing is a correct description.

Manufacturer.



During progress of work in shops - -

Dates of Survey while building

During erection on board vessel - - 24/12/40, 26/12/40, 30/12/40, 20/1/41, 3/2/41, 10/2/41, 21/2/41, 27/2/41.

Total No. of visits 8

Dates of Examination of principal parts—Cylinders Slides Covers

Pistons Piston Rods Connecting rods

Crank shaft Thrust shaft Intermediate shafts

Tube shaft Screw shaft in place, 30/12/40 Propeller in place, 30/12/40.

Stern tube in place, 26/12/40 Engine and boiler seatings 30/12/40 Engines holding down bolts 10/2/41.

Completion of fitting sea connections 30/12/40

Completion of pumping arrangements 21/2/41 Boilers fixed 10/2/41. Engines tried under steam 27/2/41.

Main boiler safety valves adjusted 21/2/41 Thickness of adjusting washers P = 1/32" S = 1/32".

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 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 "NORMAN QUEEN" Lth. Rpt. No. 1950

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery - Glasgow Report 63390 has been efficiently fitted on board, the materials and workmanship being sound and good. On completion, the safety valves were adjusted to 200 lbs/sq and the Main and Auxiliary machinery were tried under working conditions at sea and found satisfactory. This machinery in my opinion is in a safe working condition and eligible to be classed in the Register Book with the notation of L.M.C. 2-41 and T.S. (O.G.), F.II.

Certificate to be sent to The Surveyors are requested not to write on or below the space for Committee's Minutes.

The amount of Entry Fee ... £ : :
 Special L.M.C. ... £ 6 : 9 : 0
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ 1 : 1 : 9

To be collected by L.S. & credited to Lth.
 When applied for, 4-3-1941.
 When received, 19...

J. Campbell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 11 MAR 1941
 Assigned + Lamb 2 41
 J.D., Og..

