

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 24.11.1945 When handed in at Local Office 24.11.1945 Port of Spaunich
 No. in Survey held at Rowledge Date, First Survey 3 JANUARY Last Survey 17 NOVEMBER 1945
 Reg. Book. on the S.S. Coastal Light "VIC 78" (Number of Visits 13)
 Built at Rowledge By whom built The Rowledge Ironworks Co. Ltd. Yard No. 657 When built 1945
 Engines made at Rowledge By whom made The Rowledge Ironworks Co. Ltd. Engine No. 671 when made 1945
 Boilers made at Colchester By whom made Dawson Payman & Co. Ltd. Boiler No. 20085 when made 1945
 Registered Horse Power _____ Owners Ministry of War Transport Port belonging to London
 Nom. Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted to
 Trade for which Vessel is intended Coasting

ENGINES, &c.—Description of Engines Compound Reciprocating Revs. per minute 150
 Dia. of Cylinders 10 1/2" - 22" Length of Stroke 14" No. of Cylinders Two No. of Cranks Two
 Crank shaft, dia. of journals as per rule 4 3/8" Crank pin dia. 4 3/8" Crank webs shrunk Thickness parallel to axis 2 7/8"
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule 4 26"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per rule 4 7/8" Is the tube shaft fitted with a continuous liner no
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted Is the after end of the liner made watertight in the
 propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner yes
 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 yes
 If two liners are fitted, is the shaft lapped or protected between the liners yes Is an approved Oil Gland or other appliance fitted at the after
 end of the tube shaft yes (Crabtree) Length of Bearing in Stern Bush next to and supporting propeller 20"
 Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C.I. whether Moveable no Total Developed Surface 11.6 sq. feet
 Feed Pumps worked from the Main Engines, No. one Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. one Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work yes
 Feed Pumps { No. and size one 2 1/8" x 6" 5 1/4" x 4 3/4" x 5" Pumps connected to the { No. and size one 2 1/8" x 6" 5 1/4" x 4 3/4" x 5"
 How driven Main Engine Steam Driven Main Bilge Line { How driven Main Engine Small Service Pumps
 Ballast Pumps, No. and size 5 1/4" x 4 3/4" x 5" Lubricating Oil Pumps, including Spare Pump, No. and size _____
 Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room one - 2" connected to main & S.S.P. one - 2" connected to S.S.P. only.
 In Holds, &c. 2 - 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size one - 2" **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
 No. and size none 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
 Are all Sea Connections fitted direct on the skin of the ship yes & stools 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 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 none 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 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 _____ Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 504 sq ft
 Is Forced Draft fitted no No. and Description of Boilers one vertical Working Pressure 120 lbs sq in
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 28-10-41 Main Boilers 6-4-45 Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval)
 Superheaters _____ General Pumping Arrangements 20-1-44 Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description
 FOR THE ROWLEDGE IRONWORKS CO. LTD

D. J. O. Wilson
 DIRECTOR

Manufacturer.



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Lloyd's Register

005756-005778-0278

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship? NOTE.—The words which do not apply should be deleted.

1945: Jan 3 Apr 19 May 25 July 16.
 During progress of work in shops - -
 Dates of Survey while building }
 During erection on board vessel - - - } 1945 Aug 10 26-31 Sep 11 19 Oct 3 11 17 Nov 17
 Total No. of visits 13

Dates of Examination of principal parts—Cylinders 25-5-45 Slides 16-7-45 Covers 25-5-45
 Pistons 16-7-45 Piston Rods 19-4-45 Connecting rods 19-4-45
 Crank shaft 25-5-45 Thrust shaft 25-5-45 Intermediate shafts ✓
 Tube shaft 26-8-45 ✓ Screw shaft 26-8-45 Propeller 26-8-45
 Stern tube 26-8-45 Engine and boiler seatings 26-8-45 Engines holding down bolts 3-10-45
 Completion of fitting sea connections 10-8-45
 Completion of pumping arrangements 7-11-45 Boilers fixed 3-10-45 Engines tried under steam 17-11-45
 Main boiler safety valves adjusted 120 lbs. 0" 7-11-45 Thickness of adjusting washers P. 7/16" S. 1/2"
 Crank shaft material Steel Identification Mark ✓ Thrust shaft material Steel Identification Mark ✓
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark ✓ Steam Pipes, material Copper Test pressure 300 lbs 0" Date of Test 7-10-45
 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 ✓
 Is this machinery duplicate of a previous case Yes ✓ If so, state name of vessel "VIC 77"

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The engine has not been constructed in accordance with the requirements of the Society's Rules but has been constructed under the supervision of the Society.
 The scantlings are in accordance with the Society's Rules.
 The Engine & Boiler (Report attached) have now been efficiently fitted on board a Classed vessel, examined under working conditions during a basin & sea trial, the pumping arrangements examined under working conditions and in my opinion is eligible for notation L.M.C. 11-45.

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 ...	£ 2 1 : 0	When applied for,
Special ...	£ 8 : 0 : 0	27 NOV 1945
Donkey Boiler Fee ...	£ 6 : 16 : 0	When received,
Travelling Expenses (if any) £	See above	19

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

Committee's Minute
 Assigned LMC 11,45
 O.G.
 FRI. 14 DEC 1945

