

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 SEP 1942 When handed in at Local Office Hull Received at London Office 14 SEP 1942
 No. in Survey held at Hull Date, First Survey 25-6-42 Last Survey 26-8-1942
 Reg. Book Hull (Number of Visits 9)
 on the single screw "EMPIRE TOBY"
 Built at Thorn By whom built Richard Dunston Ltd. Yard No. T 376 Tons { Gross 129 Net 71 }
 Engines made at Wigan By whom made Worsley Meanes Engine No. 9951 When made .
 Boilers made at Stockton By whom made Stockton Chemical Engineers - Boiler No. 6584 When made .
 Registered Horse Power 85 Owners Ministry of War Transport Port belonging to .
 Nom. Horse Power as per Rule 85 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which vessel is intended Towing Service

ENGINES, &c.—Description of Engines

Dia. of Cylinders as per Rule Length of Stroke as per Rule No. of Cylinders as per Rule No. of Cranks as per Rule Revs. per minute as per Rule
 Crank shaft, dia. of journals as per Rule Crank pin dia. as per Rule Crank webs as per Rule Mid. length breadth as per Rule Thickness parallel to axis as per Rule
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule Mid. length thickness as per Rule Thickness around eye-hole as per Rule
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule Is the { tube / screw } shaft fitted with a continuous liner { no / yes }
 Bronze 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 propeller boss as per Rule
 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 no
 If two liners are fitted, is the shaft lapped or protected between the liners no Is an approved Oil Gland or other appliance fitted at the after end of the tube no
 at YES If so, state type NEWARK Length of Bearing in Stern Bush next to and supporting propeller 29"
 Propeller, dia. as per Rule Pitch as per Rule No. of Blades as per Rule Material as per Rule whether Moveable as per Rule Total Developed Surface as per Rule sq. feet
 Feed Pumps worked from the Main Engines, No. as per Rule Stroke as per Rule Can one be overhauled while the other is at work as per Rule
 Bilge Pumps worked from the Main Engines, No. as per Rule Diameter as per Rule Stroke as per Rule Can one be overhauled while the other is at work as per Rule
 Feed Pumps { No. and size One 6" x 4 1/2" x 10" Pumps connected to the Main Bilge Line { No. and size One 5" x 3 1/2" x 6" How driven Ind. Stm. }
 Ballast Pumps, No. and size None Lubricating Oil Pumps, including Spare Pump, No. and size as per Rule
 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 each of 2" dia. also direct suction - see below
 In Pump Room Bunker tunnel One of 2" dia. In Holds, &c. Fore cast compartment, one each of 2" dia. Leak fitted with drain valve, controlled from upper deck.
 Main Water Circulating Pump Direct Bilge Suctions, No. and size One of 3 1/2" dia Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size E. & B. Spaces, one each of 2 1/2" 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 None
 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 as per Rule
 What pipes pass through the deep tanks as per Rule Have they been tested as per Rule Yes
 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 Yes Is it fitted with a watertight door above worked from as per Rule

MAIN BOILERS, &c.—(Letter for record S)

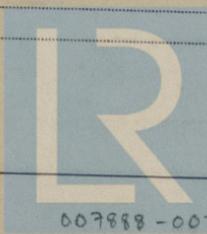
Total Heating Surface of Boilers 1367 sq. ft.
 Which Boilers are fitted with Forced Draft main only boiler Which Boilers are fitted with Superheaters None
 No. and Description of Boilers 1SB Working Pressure 200 lb.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes
 Can the donkey boiler be used for domestic purposes only Yes
 PLANS. Are approved plans forwarded herewith for Shafting 29.11.39 Main Boilers 16.7.41 Auxiliary Boilers as per Rule Donkey Boilers as per Rule
 Superheaters as per Rule General Pumping Arrangements 17.3.41 Oil fuel Burning Piping Arrangements as per Rule

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied See attached list.

The foregoing is a correct description.

Manufacturer.



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007888-007894-0069

EMPIRE TOBY

During progress of work in shops - - Sailed Rpt. No. 118131

Dates of Survey while building 1942. June 25. July 4. 7.9.20. Aug 11. 14. 25. 26.

During erection on board vessel - - - 9

Total No. of visits 9

Dates of Examination of principal parts - Cylinders 4.7.42 Slides 4.7.42 Covers 4.7.42

Pistons 4.7.42 Piston Rods 4.7.42 Connecting rods 4.7.42

Crank shaft 4.7.42 Thrust shaft 4.7.42 Intermediate shafts 4.7.42

Tube shaft 4.7.42 Screw shaft 4.7.42 Propeller 4.7.42

Stern tube 4.7.42 Engine and boiler seatings 9.7.42 Engines holding down bolts 20.7.42

Completion of fitting sea connections 4.7.42

Completion of pumping arrangements 25.8.42 Boilers fixed 20.7.42 Engines tried under steam 26.8.42

Main boiler safety valves adjusted 25.8.42 Thickness of adjusting washers P 11/32 S 3/8

Crank shaft material Identification Mark Thrust shaft material Identification Mark

Intermediate shafts, material Identification Mark Tube shaft, material Identification Mark

Screw shaft, material Identification Mark Steam Pipes, material Steel Test pressure 600 Date of Test 11.8.42

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 Empire Imp

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed and fitted on board under Special Survey in accordance with the approved plans, the Society's Rules and the Specification. The workmanship and materials are good and when tried under steam the installation was found satisfactory in every respect and is eligible in my opinion to have the record of * LMC 8.42. OG. and the notation T. 3 cy. 12", 20", 32" - 22 200 lb, 85 NHP, 15B. 2 cy. G.S. 3605. HS 1367. F.D.

Certificate to be sent to _____

The amount of Entry Fee ... £ : : When applied for, _____

Special Com. F.E. ... £ 6-16-9 7 SEP 1942 When received, _____

Donkey Boiler Fee ... £ : : _____

Travelling Expenses (if any) £ : : _____

Committee's Minute + dmb 8.42

Assigned JD, O.

W.S. Shields
 Engineer Surveyor to Lloyd's Register of Shipping.

FRL 18 SEP 1942



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