

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

Date of writing Report 30-8-43 19 When handed in at Local Office 6 SEP 1943 19 Port of HULL
 No. in Survey held at HULL Date, First Survey 4.1.43 Last Survey 25.8.1943
 Reg. Book on the Steam Tug **EMPIRE SYBIL** (Number of Visits 33) Tons Gross 276 Net Nil
 Built at SELBY By whom built Ashmore & Co Ltd Yard No. 1268 When built 1943
 Engines made at HULL By whom made Amos Smith Engine No. 728 When made
 Boilers made at HULL By whom made Amos Smith Boiler No. 728 When made
 Registered Horse Power Owners Ministry of War Transport Port belonging to Hull
 Nom. Horse Power as per Rule 132 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which vessel is intended Towing Services

ENGINES, &c.—Description of Engines **TRIPLE EXPANSION** Central Revs. per minute 122
 Dia. of Cylinders 15", 25", 42" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 8.05" as fitted 8 1/4" Crank pin dia. 8 1/4" Mid. length breadth 15 1/2" Thickness parallel to axis 5 1/4"
 Crank webs Mid. length thickness 5 1/4" shrunken Thickness around eye-hole 3 5/8"
 Intermediate Shafts, diameter as per Rule 7.66" as fitted 8" Thrust shaft, diameter at collars as per Rule 8.05" as fitted 8 1/4"
 Tube Shafts, diameter as fitted NONE Screw Shaft, diameter as per Rule 8.865" as fitted 9 1/4" 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 fitted Is the after end of the liner made watertight in the propeller boss
 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
 Propeller, dia. 10'-0" Pitch 11'-9" No. of Blades 4 Material C.I. whether Moveable Solid Length of Bearing in Stern Bush next to and supporting propeller 2'-2 1/2" Total Developed Surface 38 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" Can one be overhauled while the other is at work Yes
 Feed Pumps No. and size One 6" x 4 1/4" x 6" Pumps connected to the Main Bilge Line No. and size One 7 1/2" x 5" x 6" How driven Independent Steam
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
 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 One 2" dia in each of the following 2 @ 2 1/2" dia 2 @ 3" dia Bl. Ru 2 @ 2 1/2" dia In Pump Room One 2" dia in each of the following Holds, &c. For Peak Tank For Hld. For Hld. For Peak Tank
 Main Water Circulating Pump Direct Bilge Suctions, No. and size One @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size Two @ 3" dia included above 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 Bolt
 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 None 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 No Is it fitted with a watertight door worked from Yes

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2390 sq ft
 Which Boilers are fitted with Forced Draft None Which Boilers are fitted with Superheaters None
 No. and Description of Boilers One S.B. Working Pressure 200 lb/sq in
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?
 Can the donkey boiler be used for domestic purposes only
 PLANS. Are approved plans forwarded herewith for Shafting 28-7-41 Main Boilers 3/7/41 Auxiliary Boilers None Donkey Boilers None
 (If not state date of approval)
 Superheaters General Pumping Arrangements 3-9-41 Oil fuel Burning Piping Arrangements

SPARE GEAR.

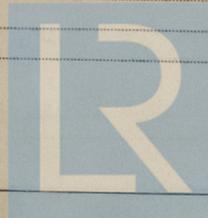
Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied As per Specification.

The foregoing is a correct description.

For AMOS & SMITH LTD.

W. C. Brown

Manufacturer.



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

EMPIRE SYBIL

During progress of work in shops - - { Jan 4. 14. Feb. 24. Mar. 14. 20. May 25. 27. 29. 31. June 1. 2. 4. 17. 18. 28. Aug. 16. 19.
 Dates of Survey while building { 1943 Apr 15, 29 Jul 17. July 12, 15, 22, 29. Aug 4, 5, 13, 19, 23, 24, 25.
 Total No. of visits 33

Dates of Examination of principal parts - Cylinders 1/6/43, 27/5/43, 29/5/43 Slides 27-2-43 Covers 1/6/43, 27/5/43, 29/5/43
 Pistons 1/5/43, 21/7/43 Piston Rods 21/5/43 Connecting rods 20/3/43
 Crank shaft 4-6-43 Thrust shaft 14/1/43 Intermediate shafts 7/1/43
 Tube shaft None Screw shaft 17/3/43 Propeller 29/4/43
 Stern tube 29/8/43 Engine and boiler seatings 17/6/43, 15/7/43 Engines holding down bolts 5/8/43
 Completion of fitting sea connections 29/4/43
 Completion of pumping arrangements 19/8/43 Boilers fixed 5/8/43 Engines tried under steam 19/8/43
 Main boiler safety valves adjusted 19/8/43 Thickness of adjusting washers P.V.S. 5/16"
 Crank shaft material F.I. Steel Coupling 388 F.W. 1 1/4" Journals 18/2/43 Identification Mark 638 F.W. 18/2/43 Thrust shaft material F.I. Steel Identification Mark 386 F.W. 29/11/42
 Intermediate shafts, material F.I. Steel Identification Marks 388 F.W. 24/11/42 Tube shaft, material None Identification Mark -
 Screw shaft, material F.I. Steel Identification Mark 396 F.W. 20/1/42 Steam Pipes, material STEEL Test pressure 600 lb Date of Test 16/8/43
 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 'E. SARA'

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The Machinery of this vessel, has been constructed in accordance with the approved plans, the Rules, and the Specification of tested material made by firms accredited by the Society.
 The Workmanship and Material are good.
 The Machinery and auxiliaries have been fitted on board, and when tried under steam at sea fell pure as practicable in the basin were found satisfactory in every respect.
 The vessel is eligible in our opinion when classed to have the records of * LMC 8.43. and O.G. and the Notations T. 3 C₁ 15", 25", 42" - 27".
 132 NHP. 200 lbs. 1 S.B. 3 cf. G.S. 63. H.S. 2390.

The original arrangement for boiler to be oil-burning now amended to coal-burning when vessel was about ready to receive its machinery.

The amount of Entry Fee	£ 3 : 0	When applied for, 6 SEP 1943 When received, 19
Special	£ 33 : 5	
Donkey Boiler Fee	£ :	
Travelling Expenses (if any)	£ :	

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

Committee's Minute ... FRI. 17 SEP 1943
 Assigned ... + LMC 8.43 09

Certificate to be signed by the Engineer Surveyor to Lloyd's Register of Shipping (The Surveyors are requested not to write on or below the space for Committee's Minute.)

