

Rpt. 4.

No. 52120.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

Date of writing Report 30-8-43. When handed in at Local Office 6 SEP 1943. 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 83.) Tons { Gross 276
Net Nil.
Built at SELBY By whom built Ashmore & Sons Ltd. Yard No. 1268. When built 1943.
Engines made at HULL By whom made Ashmore & Sons Ltd. Engine No. 728. When made .
Boilers made at HULL By whom made Ashmore & Sons Ltd. 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. Crankshaft 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". Crank pin dia. 8 1/4". Mid. length breadth 15 1/2". Thickness parallel to axis 5 1/4".
as fitted 8 1/4". Crank webs Mid. length thickness 5 1/4". shrunk Thickness around eye-hole 3 5/8".
Intermediate Shafts, diameter as per Rule 7.66". Thrust shaft, diameter at collars as per Rule 8.05".
as fitted 8". as fitted 8 1/4".
Tube Shafts, diameter as per Rule — Screw Shaft, diameter as per Rule 8.865". Is the { tube } shaft fitted with a continuous liner { No }
as fitted None as fitted 9 1/4". as fitted { screw }
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
as fitted — as fitted — 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
If so, state type "NEWARK". Length of Bearing in Stern Bush next to and supporting propeller 3'-2 1/2".
Propeller, dia. 10'-0" Pitch 11'-9" No. of Blades 4. Material C.I. whether Moveable Solid 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 { No. and size One 6" x 4 1/4" x 6". Pumps connected to the { No. and size One 7 1/2" x 5" x 6".
Pumps How driven Independent Steam Main Bilge Line 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 20" dia 20" dia 20" dia 20" dia 20" dia 20" dia
In Pump Room One 2" dia in each of the following 20" dia 20" dia 20" dia 20" dia 20" dia 20" dia
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 in each of the following 20" dia 20" dia 20" dia 20" dia 20" dia 20" 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 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 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? —
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.

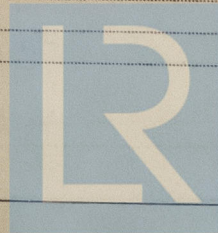
Has the spare gear required by the Rules been supplied Yes.
State the principal additional spare gear supplied As per Specification.

The foregoing is a correct description.

For AMOS & SMITH LTD.

W. C. Brown.

Manufacturer.



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EMPIRE SYBIL.

During progress of work in shops - - - *Feb. 27. Jan 4. 14. 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. Jul 12, 15, 22. 29. Aug 4, 5, 13, 19, 23, 24, 25.*
 During erection on board vessel - - - *1943 Apr 15, 29 Jul 17. Jul 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. 21/5/43.* 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 & S 5/16"*
 Crank shaft material *F.I. Steel* Identification Mark *388 F.W. 11/1/42.* Journals *388 F.W. 18/2/43.* Thrust shaft material *F.I. Steel* Identification Mark *386 F.W. 29/1/42.*
 Intermediate shafts, material *F.I. Steel* Identification Marks *388 F.W. 21/1/42.* 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 *F. 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 as sea full power 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 Cy. 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* : *0* When applied for,
 Special ... £ *33* : *5* : *0* *6 SEP 1943*
 Donkey Boiler Fee ... £ *8* : *5* : *0* When received,
 Travelling Expenses (if any) £ *10* : *0* : *0*

Committee's Minute ... *FRI. 17 SEP 1943*
 Assigned ... *+ LMC 8,43 OG*

W. S. Shields.

J. Preece

Engineer Surveyor to Lloyd's Register of Shipping.



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