

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 15-1-41 When handed in at Local Office 23 JAN 1941 Port of HULL Received at London Office JAN 25 1941

No. in Survey held at Hull & Goole. Date, First Survey 7.6.40 Last Survey 14.1.1941
 Reg. Book. on the H.M.T. MACBETH. (Number of Visits 51)

Gross Tons 452
 Net Tons 142

Built at Goole By whom built Goole S.B. & Repg Co. Ltd. Yard No. 355 When built 1941-1

Engines made at Hull. By whom made Amos & Smiths Ltd. Engine No. 681 When made do.

Boilers made at do. By whom made do. Boiler No. do. When made do.

Registered Horse Power 156 Owners The Admiralty Port belonging to do.

Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Trade for which Vessel is intended J

ENGINES, &c.—Description of Engines Triple Expansion CONTRACT Revs. per minute 160

Dia. of Cylinders 19 1/2 - 23 - 28 Length of Stroke 27 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals 7.5 as per Rule 7.5 as fitted 7.75 Crank pin dia. 7.75 Crank webs Mid. length breadth shrunken Thickness parallel to axis 4.13/16
 Mid. length thickness shrunken Thickness around eye-hole 3.15/16

Intermediate Shafts, diameter as per Rule 7.15 as fitted 7.1/4 Thrust shaft, diameter at collars as per Rule 7.5 as fitted 7.7/8

Tube Shafts, diameter as per Rule 8.2 as fitted 8.1/4 Screw Shaft, diameter as per Rule 8.2 as fitted 8.1/4 Is the tube shaft fitted with a continuous liner

Bronze Liners, thickness in way of bushes as per Rule do. as fitted do. Thickness between bushes as per Rule do. as fitted do. Is the after end of the liner made watertight in the 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 shaft Length of Bearing in Stern Bush next to and supporting propeller 36

Propeller, dia. 105 Pitch 9'-4" No. of Blades 3 Material C.I. whether Moveable Total Developed Surface 30 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/2 Stroke 15 Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/2 Stroke 15 Can one be overhauled while the other is at work

Feed Pumps { No. and size One 4 x 6 x 12 Weirs do. Pumps connected to the { No. and size One 6 x 5 1/2 x 15 Weirs do.
 How driven Independent Steam Main Bilge Line How driven Independent Steam Downton

Ballast Pumps, No. and size None Lubricating Oil Pumps, including Spare Pump, No. and size do.

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 Eng Room 2 @ 2" dia + one @ 2 3/4" dia Stokehold 2 @ 2" dia
 In Pump Room None In Holds, &c. One @ 2" dia in each of the following, Forepeak, Main Tank, Sordic Space, Bagazine, Spirit Room, Bunkers, Shaft space & aft peak.

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 One @ 2 3/4" included above Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

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 Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line At W.L.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

What Pipes pass through the bunkers Feed Tank Suctions How are they protected Wood casing

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

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 Is the Shaft Space watertight Is it fitted with a watertight door worked from Access from flat above

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2650

Which Boilers are fitted with Forced Draft do. Which Boilers are fitted with Superheaters None

No. and Description of Boilers One - S.B. Working Pressure 200 lbs/sq

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 17.10.39 Main Boilers 17.10.39 Auxiliary Boilers do. Donkey Boilers do.
 (If not state date of approval)

Superheaters None General Pumping Arrangements 17.10.39 Oil fuel Burning Piping Arrangements None

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.

A. G. Crawley

Manufacturer.



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1940. June 4, 18, July. 18, 22, 24, Aug. 2, 5, 6, 9, 14, 30, Sept. 6, 7, 11, 12, 13, 15, 17, 20, 26, 30,
 Oct. 2, 5, 9, 10, 11, 13, 14, 15, 16, 22, 25, 30. Nov. 4, 6, 11, 12, 12¹³, 14, 27. Dec. 2, 3, 13,
 21, 24, 1941. Jan 3, 8, 9, 10, 14.

Dates of Survey while building }
 During erection on board vessel --- }
 Total No. of visits 51.

Dates of Examination of principal parts—Cylinders 22.7.40 6.9.40 Slides 2/8/40 Covers 22/7/40 6.9.40.
 Pistons 2/8/40 Piston Rods 2/8/40 Connecting rods 2/8/40.
 Crank shaft 20.9.40 Thrust shaft 30.9.40 Intermediate shafts 4.26.9.40.
 Tube shaft ✓ Screw shaft 18.7.40 Propeller 17.9.40.
 Stern tube 15.9.40 Engine and boiler seatings 17.9.40 Engines holding down bolts 11.11.40.
 Completion of fitting sea connections 17.9.40
 Completion of pumping arrangements 24.12.40 Boilers fixed 25.10.40 Engines tried under steam 19.1.41.
 Main boiler safety valves adjusted 24.12.40 Thickness of adjusting washers 3/8" both.
 Crank shaft material Steel Identification Mark 343 W.K. 22.8.40 Thrust shaft material Steel Identification Mark W.N. 307. 14.10.
 Intermediate shafts, material Steel Identification Marks 343 W.K. 22.8.40 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark 47. RE 9 23.4.40 Steam Pipes, material Steel Test pressure 600 lbs/sq Date of Test 14.10.40
 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 H.M.T. BIRCH. Rpt. No. 50672.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The Machinery of this vessel has been constructed and fitted on board in accordance with the approved Admiralty Plans. The specification & the Society's Rules. The workmanship & materials are good & when tried at as near full power as practicable in the basin it was found satisfactory in every respect.

This vessel is eligible, in my opinion, when classed to have the records of L.M.C.1-41 & O.G. & the notation T. 2. Cy. 1 3/4, 23 & 38. 156 NHP.
 2001b. 1. 53. 3cf. G. 9. 63. H. 3. 2650. F. D.

The amount of Entry Fee ... £ : : :
 Special ... £ 75 : 0 : :
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : : 19

When applied for, 23 JAN 1941
 When received, 19

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 28 JAN 1941
 Assigned f.dumb. 1.41
 22. 09.

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