

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

15 AUG 1941

Date of writing Report 19 When handed in at Local Office 21 AUG 1941 Port of HULL
 No. in Survey held at HULL Date, First Survey 7.9.40 Last Survey 21.5.1941
 Reg. Book. on the Steam Trawler BALTA (Number of Visits 45)
 Built at BEVERLEY By whom built Messrs. Cook, Welton & Gemmell Ltd Yard No. 672 Tons { Gross 452 Net 144
 Engines made at HULL By whom made C. D. Holmes & Co. Engine No. 1572 When made 1941-5
 Boilers made at HULL By whom made C. D. Holmes & Co. Boiler No. 1574 When made 1941-5
 Registered Horse Power _____ Owners The Admiralty Port belonging to _____
 Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes
 Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines Triple Expansion CONTRACT. Revs. per minute 160
 Dia. of Cylinders 13 1/2" 23" 38" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 7.5 Crank pin dia. 7 7/8 Crank webs Mid. length breadth _____ Thickness parallel to axis 4 13/16"
 as fitted 7 7/8 Mid. length thickness _____ shrunk Thickness around eye-hole 3 15/16"
 Intermediate Shafts, diameter as per Rule 7.15 Thrust shaft, diameter at collars as per Rule 7.5
 as fitted 7 1/4 as fitted 7 7/8
 Tube Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 8.2 Is the { screw } shaft fitted with a continuous liner { No }
 as fitted _____ as fitted 8 1/4
 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 Yes
 as fitted _____ as fitted _____ 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 Yes
 If so, state type NEWARK Length of Bearing in Stern Bush next to and supporting propeller 36 1/2"
 Propeller, dia. 105" Pitch 9'-4" No. of Blades 3 Material C.I. whether Moveable Solid 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 Yes
 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 Yes
 Feed Pumps { No. and size One 4" x 6" x 12" Weir Pumps connected to the { No. and size One 6" x 5 1/2" x 15" Weir
 How driven Independent Steam Main Bilge Line How driven Independent Steam Also Donkey
 Ballast Pumps, No. and size NONE Lubricating Oil Pumps, including Spare Pump, No. and size NONE
 Are two independent means arranged for circulating water through the Oil Cooler NONE Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Eng. Rm. 2 @ 2" dia one at 3 1/2" dia After End 2 @ 2" dia
 In Pump Room NONE In Holds, &c. One @ 2" dia in each of the following:—Fore Peak, Chain Lockers, Aft Peak, Magazine, Spit Rm., Plunkers, 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 @ 3 1/2" (includes one) 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 Yes
 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 H.W.L.
 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 No
 What Pipes pass through the bunkers Feed Vault Suctions How are they protected Wood Casings
 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 SPACE watertight Yes Is it fitted with a watertight door No Access Flat above worked from _____

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2650
 Which Boilers are fitted with Forced Draft All Which Boilers are fitted with Superheaters NONE
 No. and Description of Boilers One S.B. 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? _____
 Can the donkey boiler be used for domestic purposes only _____
 PLANS. Are approved plans forwarded herewith for Shafting 17.7.39 Main Boilers 17.7.39 Auxiliary Boilers NONE Donkey Boilers NONE
 (If not state date of approval)
 Superheaters NONE General Pumping Arrangements 17.10.39 Oil fuel Burning Piping Arrangements NONE

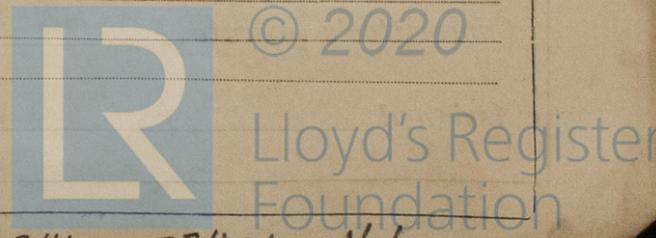
SPARE GEAR.

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.
 FOR CHARLES D. HOLMES & CO., LTD.

W.R. Evans

Manufacturer.



007412 - 007421 - 0166

1940
 During progress of work in shops - - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

1941
 Sep 7, 30, Oct 9, 23, 25, 31, Nov 4, 7, 8, 11, 12, 14, 18, 23, 29, Dec 6, 27, 30, 31 - Jan 3, 4, 6, 8, 11, 25, 28, 31.
 Dec 3, 7, 12, 20, Apr 27, 11, 17, 25, 29, 30, May 5, 7, 12, 13, 15, 16, 21
 - ATJAE
 25045
 Dates of Examination of principal parts - Cylinders 4/11, 27/12/40, 29/12/40 Slides 11-1-41. Covers 4/11, 27/12/40, 29/12/40
 Pistons 11-1-41. Piston Rods 8/1/41. Connecting rods 8/1/41.
 Crank shaft 3/1/41. Thrust shaft 23-11-40. Intermediate shafts 8/11/40, 6/12/40.
 Tube shaft ✓. Screw shaft 4/11/40. Propeller 18/11/40
 Stern tube 14-11-40. Engine and boiler seatings 29-11-40. Engines holding down bolts 2-4-41
 Completion of fitting sea connections 18/11/40
 Completion of pumping arrangements 29-4-41. Boilers fixed 2-4-41. Engines tried under steam 16-5-41.
 Main boiler safety valves adjusted 29-4-41. Thickness of adjusting washers 3/8" both.
 Crank shaft material M.S. compling 264 W.M. 26/7/40. Identification Mark 404.E.H.7-9-40. Thrust shaft material M.S. Identification Mark 403.E.H.8-4-40
 Intermediate shafts, material M.S. 403.E.H.6-9-40. 471 E.H. 8-10-40. Tube shaft, material ✓. Identification Mark ✓
 Screw shaft, material M.S. Identification Mark 264 W.M. 26/7/40. Steam Pipes, material Steel. Test pressure 600 lb. Date of Test 17/4/41.
 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 No.
 Is this machinery duplicate of a previous case Yes. If so, state name of vessel H.M.T. BIRCH.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery of this vessel has been constructed & fitted on board in accordance with the approved Admiralty plans, the Specifications of the Society's Rules. The workman ship & material are good & when tried at as near full power as practicable in the basin it was found satisfactory in every respect.
 The vessel is eligible, in our opinion, when classed to have the notations of L.M.C 5.41 + A.G. & the notations T. 3. Cy. 12 1/2, 23, 38 - 27 1/2
 156 N.P. 200 lbs. 1.8B 3 of G.S 63 H.S 2650 F.P.

Certificate to be sent to
 The amount of Entry Fee ... £ : :
 Special ... £ 75 : :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 14.8.41
 When received, 19.8.41
 J. Freeman Dip. Eng. Surveyor to Lloyd's Register of Shipping.
 Committee's Minute TUE. 19 AUG 1941
 Assigned + L.M.C 5.41
 F.D. O.G.

