

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office APR 24

Date of writing Report 07 19 1941 When handed in at Local Office 19 1941 Port of **HULL**

No. in Survey held at Hull Date, First Survey 5. 6. 40. Last Survey 2. 4. 19 41.
Reg. Book. on the H.M.S. **"JULIET"** (Number of Visits 54)

Built at Beverley By whom built Messrs. Book, Walton & Gemmell, Ltd. Yard No. 669 Tons } Gross
Engines made at Hull By whom made Messrs. C. D. Holmes & Co. Engine No. 1569. When built 1941-3. } Net
Boilers made at Hull By whom made Messrs. C. D. Holmes & Co. Boiler No. 1569. When made 1941-3.
Registered Horse Power 156 Owners The Admiralty Port belonging to
Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes 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" as fitted 7 1/2" Crank pin dia. 7 7/8" Crank webs Mid. length breadth Thickness parallel to axis 4 13/16" Mid. length thickness shrunk Thickness around eye-hole 3 5/16"

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 as fitted Screw Shaft, diameter as per Rule 8.2" as fitted 8 1/4" Is the tube shaft fitted with a continuous liner No

Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted 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 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 Movable No 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 Weirs Pumps connected to the { No. and size One - 6 x 5 1/2 x 15" Weirs } How driven Independent Steam Main Bilge Line How driven Independent Steam Down to

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

Bilge Pumps;—In Engine and Boiler Room Eng. Room 2 @ 2" dia + one @ 3 1/2" dia Stroke 2 @ 2" dia

In Pump Room None In Holds, &c. One @ 2" dia in each of the following, Forepeak, Chain Locker, Bodice Space, Magazine, 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 @ 3 1/2" included above

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 St. 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 tank suction None 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 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

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2650 ft² flat above

Which Boilers are fitted with Forced Draft S.B. 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

Can the donkey boiler be used for domestic purposes only If so, is a report now forwarded? Yes

PLANS. Are approved plans forwarded herewith for Shafting (If not state date of approval) Main Boilers Auxiliary Boilers None Donkey Boilers None

Superheaters None General Pumping Arrangements 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.

Manufacturer.



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Lloyd's Register
Foundation

004621-004629-0411

Dates of Survey while building
 During progress of work in shops - - - 1940. June 5. 6. 21. 28. July. 4. 22. 30. Aug. 2. 21. 22. 28. Sept. 7. 13. 18. 24. 26. 27. 30. Oct. 4. 8. 14. 22. 25. 31. Nov. 11. 20. 21. 26. 28. Dec. 6. 10. 18.
 During erection on board vessel - - - 1941. Jan. 6. 9. 16. 17. 31. Feb. 6. 10. 11. 14. 21. 24. 27. Mar. 5. 10. 13. 17. 20. Apr. 3. 10. 17. 24. 27.

Total No. of visits 54.

Dates of Examination of principal parts—Cylinders 30/9/40. 27/9/40. 20/9/40. Slides 30/9/40. 27/9/40. 20/9/40.
 Pistons 2-8-40. Piston Rods 28-8-40. Connecting rods 28-8-40.
 Crank shaft 8/10/40. Thrust shaft 20-9-40. Intermediate shafts 28/8/40. + 8/10/40.
 Tube shaft ✓ Screw shaft 21-8-40. Propeller 17-1-41. + 30-9-40.
 Stern tube 26-9-40. Engine and boiler seatings 1-10-40. Engines holding down bolts 9-1-41.
 Completion of fitting sea connections 30-9-40. Boilers fixed 9-1-41. Engines tried under steam 20-3-41.
 Completion of pumping arrangements 10-3-41. Thickness of adjusting washers 10 1/2" 13/32" 5 1/32".
 Main boiler safety valves adjusted 10-3-41. Identification Mark 107 ERH. 27-4-40. Thrust shaft material M.S. Identification Mark 102 ERH.
 Crank shaft material M.S. Identification Mark 106 ERH. 27-4-40. Tube shaft, material ✓ Identification Mark 102 ERH.
 Intermediate shafts, material M.S. Identification Mark 106 ERH. 27-4-40. Steam Pipes, material Steel Test pressure 600 lb./sq. in. Date of Test 11/2/41.
 Screw shaft, material M.S. Identification Mark 25-5-40. 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. Bireh. Hull No. 10.

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 specification & the Society's Rules. The workmanship & materials are good & when tried at as near full power as practicable in basin it was found satisfactory in every respect.
 This vessel is eligible, in my opinion, when classed to the records of L.M.C. 3.41 + OG & the notation T. 3C7. 13 1/2, 23 1/2, 156 N.H.P. 200 lb. 1-SB. 3 of. G.S. 63. 14-S. 2650 F.D.

The amount of Entry Fee ... £ :
 Special ... £ 75. 0. :
 Donkey Boiler Fee ... £ :
 Travelling Expenses (if any) £ :
 When applied for, 11. 4. 1941.
 When received, 19.

Committee's Minute
 Assigned
 TUE. 29 APR 1941
 11. 4. 41
 20, 09.

Engineer Surveyor to Lloyd's Register of Shipping.