

No. 51732

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

17 SEP 1942

Survey held at HULL on the N.C.P. 18  
 Date, First Survey 6. 10. 41 Last Survey 30. 5. 1942  
 (Number of Visits 31)  
 By whom built Chas. D. Holmes & Co. Yard No. 1599 When built 1942  
 By whom made Chas. D. Holmes & Co. Engine No. 1599 When made 1942  
 Boiler No. 1614 When made 1942  
 Owners Royal Indian Navy Port belonging to   
 Indicated Horse Power 156 Is Refrigerating Machinery fitted for cargo purposes  Is Electric Light fitted

**ES, &c.—Description of Engines** Triple Expansion  
 Cylinder: 13 1/2" 23" 38" Length of Stroke 27" No. of Cylinders 3 Contract Revs. per minute 160  
 as per Rule 7.5 Crank pin dia. 7 7/8" Crank webs Mid. length breadth  Thickness parallel to axis 4 1/16"  
 dia. of journals as fitted 7 7/8" Crank webs Mid. length thickness  shrunk Thickness around eye-hole 3 5/16"  
 Thrust shaft, diameter as per Rule 7.5 as fitted 7 7/8"  
 Thrust shaft, diameter at collars as per Rule 8.2" as fitted 8 1/4" Is the tube shaft fitted with a continuous liner No  
 as fitted  Is the after end of the liner made watertight in the   
 Liners, thickness in way of bushes as per Rule  as fitted  Thickness between bushes as per Rule  as fitted   
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of 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 so, state type NEWARK Is an approved Oil Gland or other appliance fitted at the after end of the tube   
 Length of Bearing in Stern Bush next to and supporting propeller 36 1/2"  
 No. of Blades 3 Material C.I. whether Moveable Solid Total Developed Surface 30 sq. feet  
 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes  
 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes  
 No. and size One 4" x 6" x 12" Weirs Pumps connected to the Main Bilge Line No. and size One 6" x 5 1/2" x 15" Weirs How driven Independent Area Also Donkey  
 How driven Independent Area  
 Lubricating Oil Pumps, including Spare Pump, No. and size   
 independent means arranged for circulating water through the Oil Cooler   
 Suctions, connected to both Main Bilge Pumps and Auxiliary   
 In Engine and Boiler Room 2" valves for engine in bilge hold & other space despatched separately  
 In Holds, &c.

**Direct Bilge Suctions, No. and size** One 5" Dia  
**Independent Power Pump Direct Suctions to the Engine Room Bilges,**  
1/2" Dia  
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes   
 the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges   
**Sea Connections fitted direct in the skin of the ship** Are they fitted with Valves or Cocks   
 fitted sufficiently high on the ship's side to be seen without lifting the stakehold plates  Are the Overboard Discharges above or below the deep water line   
 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   
 pipes pass through the bunkers  How are they protected   
 pipes pass through the deep tanks  Have they been tested as per Rule   
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times   
 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   
 ment to another  Is the Shaft Tunnel watertight  Is it fitted with a watertight door  worked from

**BOILERS, &c.—(Letter for record** 5) Total Heating Surface of Boilers 2650 sq. ft.  
 Boilers are fitted with Forced Draft MAIN BOILER Which Boilers are fitted with Superheaters NONE  
 Description of Boilers One Single ended Working Pressure 200 lbs. sq. in.  
**REPORT ON MAIN BOILERS NOW FORWARDED?** Yes  
**DONKEY BOILER FITTED?** No If so, is a report now forwarded?   
 Donkey boiler be used for domestic purposes only   
 Are approved plans forwarded herewith for Shafting 17-7-39 Main Boilers 17-7-39 Auxiliary Boilers  Donkey Boilers   
 (If not state date of approval)  
 General Pumping Arrangements  Oil fuel Burning Piping Arrangements   
**SPARE GEAR.**  
 Spare gear required by the Rules been supplied Yes  
 principal additional spare gear supplied See attached list

Manufactured by HOLMES & CO., LTD.  
H.P. Evans  
 Manufacturer.



Rocky 1051782

Dates of Survey while building

During progress of work in shops - - { 1941. Oct 6, 10, 14, 24, 31. Nov. 18. 1942. Feb. 27. Mar. 6, 13, 19, 20, 24, 25, 27  
Apr. 3, 13, 16, 17, 24, 29, 30. May 1, 8, 11, 12, 15, 20, 22, 23, 29, 30.

During erection on board vessel - - - {

Total No. of visits 31.

Date of Examination of principal parts - Cylinders 30/4/42 17/4/42 29/4/42 Slides 24/4/42 15/5/42 Covers 30/4/42 17/6/42 24/4/42

Pistons 6/3/42 4/5/42 Piston Rods 13/3/42 Connecting rods 8/5/42

Crank shaft 16/4/42 Thrust shaft 20/3/42 Intermediate shafts 24/3/42 25/3/42

Tube shaft NONE Screw shaft 14/10/41 Propeller 14/10/41

Stern tube 10/10/41 Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Complying 6349. AEG. 4/11/41. Pms. 6872. AEG. 2/1/42. Thickness of adjusting washers Journal 262 LT. 24/1/41.

Crank shaft material M.S. Identification Mark 6352, 6353 Thrust shaft material M.S. Identification Mark 6351

Intermediate shafts, material M.S. Identification Marks 6352, 6353 Tube shaft, material NONE. Identification Mark

Screw shaft, material T.S. Identification Mark 6164 AEG. Steam Pipes, material 1/10/41. Test pressure Date of Test

Is an installation fitted for burning oil fuel 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. 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. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, etc.) Workmanship good

The Main Engines have been constructed under special survey in accordance with the approved Admiralty plans, the Specifications and the Society's Rules.

The Materials used have been made at works approved by the Committee & tested as required by Surveyors to the Society.

They are now being dispatched to INDIA for fitting and will merit the record of  $\approx$  LMC in the Register Book when fitting is completed and is satisfactorily rated

The amount of Entry Fee ... £ : : When applied for,

Special ... £ 60 : : 16 SEP 1942

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 19

J. Anteman  
Engineer Surveyor to Lloyd's Register of Shipping

Certificate to be sent to  
(The Surveyors are requested not to act on or before the space for Committee's Minute.)

Committee's Minute

Assigned

