

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office
 Date of writing Report 14-7-42 5. When handed in at Local Office 19 Port of HULL
 No. in Survey held at Reg. Book. Date, First Survey Last Survey 17 JAN 1943 19 42
 on the H.M.C. ~~MACKEREEL~~ NOW CORNCRANE (Number of Visits 51.)
 Built at SELBY. By whom built Cochrane & Sons, Ltd. Yard No. 1246. Tons Gross 389. Net 1133. When built 1942
 Engines made at HULL. By whom made Amos & Smith. Engine No. 708. When made
 ilers made at HULL. By whom made Amos & Smith. Boiler No. 708. When made
 gistered Horse Power Owners THE ADMIRALTY. Port belonging to J
 n. Horse Power as per Rule 125. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 ade for which Vessel is intended for Government Service.

GINES, &c.—Description of Engines Triple Expansion. Revs. per minute 115.
 No. of Cylinders 13 1/2, 24, 39. Length of Stroke 27". No. of Cylinders 3. No. of Cranks 3.
 ank shaft, dia. of journals as per Rule 7.65". Crank pin dia. 8". Crank webs Mid. length breadth 5". Thickness parallel to axis 3 9/16".
 as fitted 8". Mid. length thickness 7.65". Thrust shaft, diameter at collars as per Rule 8". as fitted 8".

Intermediate Shafts, diameter as per Rule 7 3/4". as fitted 7 3/4". Screw Shaft, diameter as per Rule 8.15". as fitted 8 1/2". Is the {tube} shaft fitted with a continuous liner {Yes} screw
 be Shafts, diameter as per Rule 9.16". as fitted 9 1/2". Thickness between bushes as per Rule 19 1/2". Is the after end of the liner made watertight in the
 onze Liners, thickness in way of bushes as fitted 9 1/2". If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner One length.

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
 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
 ft No. If so, state type Length of Bearing in Stern Bush next to and supporting propeller 35 9/16".

opeller, dia. 10-3". Pitch 10-9". No. of Blades 4. Material C.I. whether Movable Solid. Total Developed Surface 39 1/2 sq. feet
 ed Pumps worked from the Main Engines, No. ONE Diameter 3. Stroke 15". Can one be overhauled while the other is at work One only.
 ge Pumps worked from the Main Engines, No. ONE Diameter 3. Stroke 15". Can one be overhauled while the other is at work One only.

ed {No. and size One 6" x 4 1/2" x 6" Duplex. Pumps connected to the {No. and size 6" x 4 1/2" x 6" Duplex. 3 Ejector, M.E.
 ps {How driven Independent Steam Main Bilge Line How driven Independent Steam Stream pump.
 last Pumps, No. and size NONE Lubricating Oil Pumps, including Spare Pump, No. and size NONE.

two independent means arranged for circulating water through the Oil Cooler NONE Suctions, connected to both Main Bilge Pumps and Auxiliary
 ge Pumps;—In Engine and Boiler Room 2 @ 2" Dia. and One Ejector (see below). In Holds, &c. One @ 2" Dia. in each of the following:—
 Pump Room and Ballast Space ASDIC Room. After Ballast Space Magazine Magazine Lbh. Spirit Room

in Water Circulating Pump Direct Bilge Suctions, No. and size One 6". Independent Power Pump Direct Suctions to the Engine Room Bilges,
 and size One 3" Steam Ejector. Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes.
 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.

all Sea Connections fitted direct on the skin of the ship Yes. Are they fitted with Valves or Cocks Yes and Bilge Ejector with 8mm
 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
 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.
 at Pipes pass through the bunkers NONE. How are they protected —
 at pipes pass through the deep tanks NONE. Have they been tested as per Rule —

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.
 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
 apartment to another Yes. Is the Shaft Tunnel watertight NONE. Is it fitted with a watertight door — worked from —

IN BOILERS, &c.—(Letter for record 5.) Total Heating Surface of Boilers 1873 sq. ft.
 Which Boilers are fitted with Forced Draft Yes. All Which Boilers are fitted with Superheaters None
 and Description of Boilers One S.B. Working Pressure 210 lb. 10".

A REPORT ON MAIN BOILERS NOW FORWARDED? —
 A DONKEY BOILER FITTED? NONE. If so, is a report now forwarded? —
 the donkey boiler be used for domestic purposes only —

ANS. Are approved plans forwarded herewith for Shafting 13-8-41 Main Boilers 13-8-41 Auxiliary Boilers None Donkey Boilers None.
 (If not state date of approval) Superheaters NONE General Pumping Arrangements 16-6-41 Oil fuel Burning Piping Arrangements NONE.

SPARE GEAR.
 Has the spare gear required by the Rules been supplied Yes. See Attached List.
 State the principal additional spare gear supplied

RETAIN

The foregoing is a correct description.
 For AMOS & SMITH LTD.

A.C. Stewley
 DIRECTOR.

Manufacturer.

W376-0226



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Lloyd's Register
 Foundation

"CORNCRAKE"

During progress of work in shops -- 1942 Jan. 7. 23. 31. Feb. 5. 24. Mar. 4. 6. 16. 20. 30. Apr. 14. 24. 28. May. 4. 4. 8. 16. 20. 29. June 3. 4. 11. 16. 23. 24. 29.
 During erection on board vessel -- July 1. 3. 7. 8. 10. 13. 14. 15. 23. Aug 5. 10. 13. 14. 25. Sept 3. 12. 13. 14. 16. 21. 23. Nov. 9. Dec. 3. 9. 1942
 Total No. of visits 52.

Dates of Examination of principal parts—Cylinders 24/4/42 28/4/42 4/5/42 Slides 16/5/42. Covers 24/4/42 28/4/42 4/5/42
 Pistons 7/4/42 Piston Rods 7/4/42 Connecting rods 7/4/42
 Crank shaft 14/4/42 Thrust shaft 5/2/42 Intermediate shafts 5/2/42
 Tube shaft — Screw shaft 23-1-42 Propeller 23/1/42
 Stern tube 24/2/42 Engine and boiler seatings 4/6/42 Engines holding down bolts 1/7/42
 Completion of fitting sea connections 6/3/42
 Completion of pumping arrangements 12/9/42 Boilers fixed 1/7/42 Engines tried under steam 12/9/42
 Main boiler safety valves adjusted 12/9/42 Thickness of adjusting washers Both 3/8
 Crank shaft material M.S. Identification Mark 439.W.K. 13-1-42. Thrust shaft material M.S. 708. 390. 13 5/2/42
 Intermediate shafts, material M.S. Identification Mark 290. 18 5/2/42. Tube shaft, material NONE. Identification Mark —
 Screw shaft, material M.S. Identification Mark 293-17. Steam Pipes, material Steel Test pressure 630lb Date of Test 6/7/42
 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. GRAYLING.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery of the Vessel has been constructed under Special Survey in accordance with approved Plans, the Rules, Specification and Admiralty Requirements of good materials and workmanship.

The Machinery has been fitted aboard under Special Survey and when tried under working conditions was found satisfactory in every respect.

It is eligible, in our opinion, to have the records L.M.C. 1242. C.L. and the Notation of T. 3cy. 13 1/2. 24. 39. - 27. 210 lbs/ft.
 MHP 125. GS. 50. H.S. 1873. F.D.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 62 : - : 8. 1. 1943.
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 19

Committee's Minute 22 JAN 1943
 Assigned 12-42
 22, CL,

J. P. P. W. S. Shields
 Engineer Surveyor to Lloyd's Register of Shipping.