

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 17 JUN 1942

15 JUN 1942

Port of HULL.

Date of writing Report

When handed in at Local Office

6-4-42

Date in Survey held at HULL.

Date, First Survey 22.9.1941

Last Survey 13.5.1942

Reg. Book.

(Number of Visits 41)

on the H.M.T. LA/HITING.

Gross 387  
Net 127

built at SELBY.

By whom built Cochrane & Sons Ltd

Yard No. 1240. When built 1942-5

Engines made at HULL.

By whom made Chas. D. Holmes & Co

Engine No. 1609. When made 1 do

Boilers made at HULL.

By whom made Chas. D. Holmes & Co

Boiler No. 1609. When made do

Registered Horse Power

Owners THE ADMIRALTY.

Port belonging to

om. Horse Power as per Rule 125

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

Trade for which Vessel is intended

GINES, &c.—Description of Engines Triple Expansion

Revs. per minute 115.

No. of Cylinders 3. Length of Stroke 27".

No. of Cranks 3.

Thickness parallel to axis 5"

Crank shaft, dia. of journals as per Rule 8"

Crank pin dia. 8"

Crank webs

Thickness around eye-hole 3 9/16"

Intermediate Shafts, diameter as per Rule 7 3/4"

as fitted 7 3/4"

Thrust shaft, diameter at collars

as per Rule 8"

Tube Shafts, diameter as per Rule

Screw Shaft, diameter as per Rule 8 1/2"

8.152.

Is the shaft fitted with a continuous liner Yes

Ironze Liners, thickness in way of bushes as per Rule 1 9/32"

as fitted 1 9/32"

Thickness between bushes as per Rule 1 3/32"

as fitted 1 3/32"

Is the after end of the liner made watertight in the

Propeller boss Yes.

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner One length.

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

Is an approved Oil Gland or other appliance fitted at the after end of the tube

If two liners are fitted, is the shaft lapped or protected between the liners

Length of Bearing in Stern Bush next to and supporting propeller 35 9/16"

Propeller, dia. 10-3"

Pitch 10-9"

No. of Blades 4.

Material C.I.

whether Moveable Solid

Total Developed Surface 39 1/2 sq. feet

Feed Pumps worked from the Main Engines, No. One

Diameter 3"

Stroke 15"

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. One

Diameter 3"

Stroke 15"

Can one be overhauled while the other is at work

Feed Pumps No. and size One 6" x 4 1/4" x 6" Duplex

Pumps connected to the Main Bilge Line

No. and size 6" x 4 1/4" x 6" Duplex 3" Ejector 3" Ejector M.E. Pumps.

How driven Independent Steam

None

How driven Independent Steam

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

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room 2 @ 2" Dia. - one 3" Ejector (see below).

In Holds, &c. One @ 2" Dia in each of the following:—

Forward Ballast Space: ASDIC Room: After Ballast Space: Magazine, Magazine Ldly. Spirit Room.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 6"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size One 3" Steam Ejector. 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 & Cocks Yes. Bilge Ejector with Pin

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 Above.

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 Yes.

What Pipes pass through the bunkers For hull suction

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 Tunnel watertight None

Is it fitted with a watertight door

worked from

MAIN BOILERS, &c.—(Letter for record 5)

Total Heating Surface of Boilers 1873 sq. ft.

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 210 lb/sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

IS A DONKEY BOILER FITTED? No.

If so, is a report now forwarded? Yes.

Can the donkey boiler be used for domestic purposes only

PLANS. 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.

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.



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Lloyd's Register  
Foundation

002536-002542-0121



WHITING.

1941. Sept 22. Oct 2. Nov 21. <sup>1942</sup> Jan 10. 20. Feb 6. 9. 18. 19. 20. 23. 26. 27. Mar. 6. 12. 13. 17. 18. 19.  
During progress of work in shops - - - Mar. 21. 26. 27. 30. Apr. 3. 4. 8.  
Dates of Survey while building { During erection on board vessel - - -  
1941 Oct 4. 17. 1942 Apr 14. 16. 17. 18. 20. 24. 28 May. 1. 5. 6. 11. 13  
Total No. of visits 41.

Dates of Examination of principal parts—Cylinders 17/3/42 18/3/42 20/3/42 Slides 3/4/42. Covers 17/3/42 18/3/42 20/3/42.  
Pistons 3/4/42. 13/3/42. 27/3/42. Piston Rods 6/2/42 Connecting rods 20/3/42.  
Crank shaft 19/2/42 Thrust shaft 14.4.42. Intermediate shafts 14.4.42.  
Tube shaft ✓ Screw shaft 4.10.41 Propeller 17.10.41  
Stern tube 4.10.41 Engine and boiler seatings 4.10.41. Engines holding down bolts 14.4.42  
Completion of fitting sea connections 17.10.41  
Completion of pumping arrangements 28.4.42 Boilers fixed 14.4.42. Engines tried under steam 6.5.42.  
Main boiler safety valves adjusted 28.4.42 Thickness of adjusting washers Both 7/16  
Crank shaft material M.S. Identification Mark 6078 AEG 16/9/41. P.M. 6335. 1624. 21/11/41 JS. 6076, 16.9.41  
Intermediate shafts, material M.S. Identification Marks 6082 AEG 16/9/41 1624 JS. Thrust shaft material MS Identification Mark AEG.  
Screw shaft, material M.S. Identification Mark 6080 AEG 16.9.41. 2.10.41 } Tube shaft, material None. Identification Mark ✓  
Is an installation fitted for burning oil fuel ☒ No Is the flash point of the oil to be used over 150°F. ☒ Yes

Have the requirements of the Rules for the use of oil as fuel been complied with ☒ Yes  
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 ☒ Yes  
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 ☒ No If so, state name of vessel BONITO.

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 plan, the Rules, Specification, and Admiralty requirements of good materials & workmanship.

The Machinery has been fitted aboard under Special Survey and when tried under steam at as near full power as practicable was found satisfactory in every respect.

It is eligible, in our opinion to have the records LMC 50. 42. C.L. and the notation of T. 3 Cy. 13 1/2, 24, 39—27. 210 lb 10. NP 125. G.S. 50. H.S. 1873. F.D.

The amount of Entry Fee ... £ : :  
Special ... £ 62 : 0 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 45 JUN 1942  
When received, 19

Committee's Minute FRI. 19 JUN 1942

Assigned T. L. M. 6. 542  
J. 22, C.

*W. S. Shields*  
Engine Surveyor to Lloyd's Register of Shipping.