

Rpt. 4.

No. 51820.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

2 DEC 1942

Date of writing Report

22-10-42

When handed in at Local Office

30 NOV 1942

Port of HULL

No. in Survey held at

HULL

Date, First Survey

20. 4. 42

Last Survey

14. 11. 1942

Reg. Book

(Number of Visits)

38

Tons

Gross 387

Net 127

on the A.M.T.

MULLET

Built at SELBY

By whom built

Cochrane and Co. Ltd.

Yard No. 1253

When built 1942

Engines made at HULL

By whom made

Amos & Smith Ltd

Engine No. 712

When made

Boilers made at HULL

By whom made

Amos & Smith Ltd

Boiler No. 712

When made

Registered Horse Power

Owners THE ADMIRALTY

Port belonging to

Nom. 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

Government Service

ENGINES, &c.—Description of Engines

Triple Expansion

Revs. per minute 115

Dia. of Cylinders

13 1/2", 24", 39"

Length of Stroke

27"

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule 7.65"

Crank pin dia.

8"

Crank webs

Mid. length breadth

shrunk

Thickness parallel to axis

5"

Intermediate Shafts, diameter

as per Rule 7.3"

as fitted 7 3/4"

Thrust shaft, diameter at collars

as per Rule 7.65"

as fitted 8"

Tube Shafts, diameter

as per Rule

None

Screw Shaft, diameter

as per Rule 8.15"

as fitted 8 1/2"

Is the ~~tube~~ screw shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule 9/16"

Thickness between bushes

as per Rule 19/32"

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

As 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

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

If so, state type

Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia.

10'-3"

Pitch

10'-9"

No. of Blades

4

Material

Steel

whether Moveable

Feed Pumps worked from the Main Engines, No.

Diameter

3"

Stroke

15"

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No.

Diameter

3"

Stroke

15"

Can one be overhauled while the other is at work

Feed Pumps No. and size

Pumps connected to the

Main Bilge Line

No. and size

6" x 4 1/4" x 6"

Duplex 3 Effect M.E.

Pumps How driven

Independent Steam

How driven

Independent Steam

Mean

Mean

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

Bilge Pumps:—In Engine and Boiler Room

In Pump Room

In Holds, &c.

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

No. and size

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

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

Are all Sea Connections fitted direct on the skin of the ship

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What Pipes pass through the bunkers

What pipes pass through the deep tanks

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

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

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

MAIN BOILERS, &c.—(Letter for record

Total Heating Surface of Boilers

Which Boilers are fitted with Forced Draft

Which Boilers are fitted with Superheaters

No. and Description of Boilers

Working Pressure

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

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

(If not state date of approval)

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description.

per pro AMOS & SMITH LTD.

ASST. SECRETARY

Manufacturer.



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During progress of work in shops - - { 1942. Apr. 20, 28. June 3, 16, 19, 30. July 2, 8, 3, 9, 13, 17, 24, Aug 6, 7, 9, 18, 22.
 During erection on board vessel - - { Sept. 14, 18, 19, 23, 30. Oct 6, 14, 16, 19, 21, 22, 23, 26, 28. Nov. 2, 6, 9, 10, 11, 12, 17.
 Total No. of visits 38.

Dates of Examination of principal parts—Cylinders 9/7/42 13/7/42 6/8/42 Slides 14/9/42 Covers 9/7/42 13/7/42 6/8/42
 Pistons 20/6/42 Piston Rods 20/6/42 Connecting rods 20/6/42
 Crank shaft 20/6/42 Thrust shaft 28/4/42 Intermediate shafts 20/4/42
 Tube shaft — Screw shaft 13/7/42 Propeller 13/7/42
 Stern tube 13/7/42 Engine and boiler seatings 13/7/42 Engines holding down bolts 14/10/42
 Completion of fitting sea connections 7/8/42
 Completion of pumping arrangements 28/10/42 Boilers fixed 23/9/42 Engines tried under steam 28/10/42 11/11/42
 Main boiler safety valves adjusted 28/10/42 Thickness of adjusting washers F 3/8 A 7/16
 Crank shaft material M.S. Identification Mark 620 J.H. 7/2/42 770 J.H. 22/4/42 654, J.H. 29/3/42. 1620
 Intermediate shafts, material M.S. Identification Marks J.S. 20.4.42 Tube shaft, material NONE. Identification Mark —
 Screw shaft, material M.S. Identification Mark 791. 5/4/42 Steam Pipes, material Steel Test pressure 620 lb./sq. in. Date of Test 22/10/42
 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 H.M.T. GRAYLING.

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

The Machinery of this Vessel has been constructed under Special Survey in accordance with approved plans, The Rules, the 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, viz. LMC OL ~~OL~~ and the notation of T. 3C, 13 1/2, 24, 39. - 27. 210 lb./sq. in. NHP 125. G.S. 50. H.S. 1873. F.D. 15B, 3cf.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 62 - : : 60 NOV 1942
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 19

FRI. 4 DEC 1942

Committee's Minute ...
 Assigned ...

W. L. Shields &

Engineer Surveyor to Lloyd's Register of Shipping.



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