

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

18 AUG 1941

Date of writing Report 19

When handed in at Local Office

10

Port of

No. in Survey held at
Reg. Book.

Date, First Survey 3.2.41

Last Survey 25.7.1941

(Number of Visits 33)

on the Steam Trawler.

INCHCOLM.

Tons Gross 452

Net 1441

Built at BEVERLEY.

By whom built Messrs. Cook, Welton & Gemmell

Yard No. 676.

When built 1941-7

Engines made at HULL

By whom made Messrs. Chas. D. Holmes & Co.

Engine No. 1588.

When made 1941-7

Boilers made at HULL

By whom made Messrs. Chas. D. Holmes & Co.

Boiler No. 1582

When made 1941-7

Registered Horse Power

Owners Admiralty

Port belonging to

Nom. Horse Power as per Rule 156.

Is Refrigerating Machinery fitted for cargo purposes NO

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 13½", 23", 38"

Length of Stroke 27"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals as per Rule 7½"

Crank pin dia. 7½"

Crank webs

Mid. length breadth

shrink

Thickness parallel to axis 4 13/16"

Intermediate Shafts, diameter as per Rule 7.15"

as fitted 7.15"

Thrust shaft, diameter at collars as per Rule 7.5"

as fitted 7 7/8"

Tube Shafts, diameter as per Rule

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

as fitted 8 1/2"

Is the

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

Length of Bearing in Stern Bush next to and supporting propeller 36 1/2"

If so, state type NEWARK

Propeller, dia. 105" Pitch 9'-4" No. of Blades 3 Material C.I. whether Moveable Solid 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 Main Bilge Line No. and size One 6" x 5 1/2" x 15" Weirs

How driven Independent Steam How driven Independent Steam Also Down to R.

Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size None

Are two independent means arranged for circulating water through the Oil Cooler None

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room Eng. room 2 @ 2" dia One @ 3 1/2" dia Strokehold 2 @ 2" dia

In Pump Room None In Holds, &c. One @ 2" dia in each of the following:—Fore peak

Chain locker, Asdic space, Magazine, spirit room, Bunker, 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 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 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 at 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 How are they protected Wood Casings

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 Access worked from flat above

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

Total Heating Surface of Boilers 2650

Which Boilers are fitted with Forced Draft All

Which Boilers are fitted with Superheaters None

No. and Description of Boilers One SB.

Working Pressure 200 lbs.

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 17-7-39 Main Boilers 17-7-39 Auxiliary Boilers None Donkey Boilers None

(If not state date of approval)

Superheaters General Pumping Arrangements 17-10-39 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

014974 - 014983 - 0341

During progress of work in shops - - 1941
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits 33

Dates of Examination of principal parts—Cylinders 26/5/41. Slides 5-6-41 Covers 26/5/41. 2/4/41.
 Pistons 9/5/41. Piston Rods 9/5/41. Connecting rods 30/5/41.
 Crank shaft 28-5-41. Thrust shaft 15-4-41. Intermediate shafts 28-4-41.
 Tube shaft - Screw shaft 19-2-41. Propeller 31-5-41.
 Stern tube 18-2-41. Engine and boiler seatings 18-2-41. Engines holding down bolts 24-6-41.
 Completion of fitting sea connections 18-2-41.
 Completion of pumping arrangements 15-7-41. Boilers fixed 24-6-41. Engines tried under steam 25-7-41.
 Main boiler safety valves adjusted 15-7-41. Thickness of adjusting washers P. $\frac{3}{8}$ " S. $\frac{13}{32}$ ".
 Crank shaft material M.S. Identification Mark 4810 JOURNAL 4811. Thrust shaft material M.S. Identification Mark 4812 AEG 1-4-41.
 Intermediate shafts, material M.S. Identification Mark 4813-4814 AEG. Tube shaft, material - Identification Mark -
 Screw shaft, material M.S. Identification Mark 4509 AEG. Steam Pipes, material Steel. Test pressure 600 lb. Date of Test 2/7/41.
 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. No.
 Is this machinery duplicate of a previous case. Yes. If so, state name of vessel. H M T BIRCH.

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 Specifications & the Society's Rules. The workmanship & material are good and when tried at as near full power as practicable in the basin it was found satisfactory in every respect.

The Vessel is eligible, in our opinion, when classed to have the records of L.M.C. 7.41 + O.G. & the notation of T. 3 Cy 13½-23-38-27 156 186 NHP. 200 H.P. 15.3.3 of G.S. 63 H.S. 2650. F.P.

The amount of Entry Fee ... £ : : When applied for, 14.8.1941
 Special ... £ 75 : 0 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : : When received, 19.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 19 AUG 1941

Assigned

+ L.M.C. 7.41

FD. O.G.



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