

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

15 AUG 1941

Date of writing Report

19

When handed in at Local Office

Port of HULL.

No. in Survey held at HULL.

Date, First Survey

7.9.40

Last Survey

21.5.1941

Reg. Book.

on the Steam Trawler

BALTA.

(Number of Visits 45)

Gross 452

Net 144

Built at BEVERLEY.

By whom built Messrs. Cook, Welby & Gemmell & Co. Yard No. 672.

When built 1941-5

Engines made at HULL.

By whom made C. D. Holmes & Co.

Engine No. 1572.

When made

1941-5

Boilers made at HULL.

By whom made C. D. Holmes & Co.

Boiler No. 1574.

When made

1941-5

Registered Horse Power

Owners

The 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 13 1/2" 23" 38"

Length of Stroke 27"

No. of Cylinders 3.

No. of Cranks 3.

Crank shaft, dia. of journals

as per Rule 7 1/2"

Crank pin dia. 7 3/8"

Crank webs

Mid. length breadth

shrunk

Thickness parallel to axis 4 13/16"

Intermediate Shafts, diameter

as per Rule 7.15"

as fitted 7 1/4"

Thrust shaft, diameter at collars

as per Rule 7.5"

as fitted 7 3/8"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 8.2"

as fitted 8 1/4"

Is the

screw

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

If so, state type

NEWARK

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

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" Weir.

Pumps connected to the

No. and size One 6" x 5 1/2" x 15" Weir.

How driven Independent Steam

Main Bilge Line

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

None

Bilge Pumps;—In Engine and Boiler Room Eng. Rm. 2 @ 2" dia one at 3 1/2" dia

In Pump Room

None

In Holds, &c. One @ 2" dia in each of the following:—Fore Peak, Main Deck

Asdic Space Magazine, Spirit Rm. Blunder, Shaft Space, 4 ft Peak.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One @ 3 1/2" (includes one)

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size One @ 3 1/2" (includes one) 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

H.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 Vark Suctions

How are they protected Wood Casings

What pipes pass through the deep tanks

None

Have they been tested as per Rule

Yes.

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 SPARE watertight

Yes.

Is it fitted with a watertight door

No. Access from 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 S.B.

Working Pressure 200 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

IS A DONKEY BOILER FITTED? No.

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 17.7.39.

Main Boilers 17.7.39.

Auxiliary Boilers

None

Donkey Boilers

None

Superheaters

None

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.

W.R. Evans

Manufacturer.



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Lloyd's Register
Foundation

007412 - 007421 - 0166

1940
During progress of work in shops - -
Dates of Survey while building
During erection on board vessel - - -
Total No. of visits

1941
Sep 7. 30. Oct 9. 23. 25. 31. Nov. 4. 7. 8. 11. 12. 14. 18. 23. 29. Dec 6. 27. 30. 31. - Jan. 3. 4. 6. 8. 11. 25. 28. 31.
Feb. 3. 7. 12. 20. Apr. 2. 7. 11. 17. 25. 29. 30. May. 5. 7. 12. 13. 15. 16. 21
ATJAE
Dates of Examination of principal parts - Cylinders 4/11/41 27/12/40 29/12/40 Slides 11-1-41. Covers 4/11/41 27/12/40 29/12/40
Pistons 11-1-41. Piston Rods 8/1/41. Connecting rods 8/1/41.
Crank shaft 3/1/41. Thrust shaft 23-11-40. Intermediate shafts 8/11/40. 6/12/40.
Tube shaft ✓ Screw shaft 4/11/40. Propeller 18/11/40
Stern tube 14-11-40. Engine and boiler seatings 29-11-40. Engines holding down bolts 2-4-41
Completion of fitting sea connections 18/11/40
Completion of pumping arrangements 29-4-41. Boilers fixed 2-4-41. Engines tried under steam 16-5-41.
Main boiler safety valves adjusted 29-4-41. Thickness of adjusting washers 3/8" both.
Crank shaft material M.S. 264 W.M. 26/7/40. Identification Mark 403. E.H. 6.9.40. 471 E.H. 8.10.40. Thrust shaft material M.S. Identification Mark 403. E.H. 6.9.40.
Intermediate shafts, material M.S. Identification Mark 264 W.M. 26/7/40. Steam Pipes, material Steel Test pressure 600 lb Date of Test 17/4/41.
Screw shaft, material M.S. Identification Mark 264 W.M. 26/7/40. 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 workman ship & material are good & when tried at as near full power as practicable with the boiler it was found satisfactory in every respect.
The vessel is eligible, in our opinion, when classed to have the records of L.M.C 5.41 + A.G. & the notations T. 3. Cy. 12 1/2, 23, 38 - 27 1/2 NHP. 200 lbs. 1.80 3 of G.S 63 H.S 2650 F.P.

The amount of Entry Fee ... £ :
Special ... £ 75 :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, 14.8.41
When received, 19.

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

Committee's Minute TUE. 19 AUG 1941
Assigned + LMC 5.41
FD OG.