

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report

19

When handed in at Local Office

19

Port of

Received at London Office

HULL.

No. in Survey held at
Reg. Book.

HULL.

Date, First Survey

23. 1. 48

Last Survey

13. 3. 1948

(Number of Visits)

Built at Lowestoft By whom built Richard Ironworks Ltd.

Yard No. 377

Tons {
Gross
Net

When built

1949

Engines made at Hull

By whom made Amos & Smith Ltd.

Engine No. 746

When made

Boilers made at Greenock

By whom made Kinkaid & Co. Ltd.

Boiler No. 345

When made

Registered Horse Power

Owners The Boston Deep Sea Fishing & Ice Co. Ltd.

Port belonging to

Name of Vessel as per Rule

MIN 174

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Trade for which Vessel is intended

Ocean-going trawler.

ENGINES, &c.—Description of Engines

Triple expansion (See Hull Report No. 54837)

Revs. per minute

Dia. of Cylinders

Length of Stroke

No. of Cylinders

No. of Cranks

Crank shaft, dia. of journals

as per Rule

Crank pin dia.

Crank webs

Mid. length breadth

shrunk

Thickness parallel to axis

as fitted

approx.

Mid. length thickness

Thickness around eye-hole

Intermediate Shafts, diameter

as per Rule

as fitted

7 3/8"

Thrust shaft, diameter at collars

as per Rule

approx.

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

8 1/4"

Is the { tube } shaft fitted with a continuous liner {

Yes

Bronze Liners, thickness in way of bushes

as per Rule

as fitted

9/16"

Thickness between bushes

as per Rule

as fitted

approx.

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

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 tub

shaft If so, state type

Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia. 10'3" Pitch 10'6"

No. of Blades

4

Material C.I.

whether Moveable

Solid

Total Developed Surface

38

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

How driven

Pumps connected to the

Main Bilge Line

{ No. and size

{ How driven

Ballast Pumps, No. and size

Lubricating Oil Pumps, including Spare Pump, No. and size

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

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 fitted with Valves or Cocks

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

Are the Overboard Discharges above or below the deep water line

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

Are the Blow Off Cocks fitted with a spigot and brass covering plate

What Pipes pass through the bunkers

How are they protected

What pipes pass through the deep tanks

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

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

2179 & 885 (spt).

Which Boilers are fitted with Forced Draft

Yes

Which Boilers are fitted with Superheaters

Yes

No. and Description of Boilers

1 cyl.

Working Pressure 200 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

No—built at Greenock.

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

straight shafting

(If not state date of approval)

14.3.47 Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

Has the spare gear required by the Rules been supplied

Yes

State the principal additional spare gear supplied

SPARE GEAR.

The foregoing is a correct description.

Manufacturer.



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Lloyd's Register
Foundation

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REPORT ON STEAM RECIPROCATING ENGINE

1948. Jan 23. Feb 6. 9. Mar 13.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits 4

Dates of Examination of principal parts—Cylinders - Slides - Covers -

Pistons - Piston Rods - Connecting rods -

Crank shaft - Thrust shaft 11.6.47. Intermediate shafts 18.7.47.

Tube shaft - Screw shaft 11.6.47. Propeller

Stern tube Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers

Crank shaft material Identification Mark Thrust shaft material SM Stl. LLOYD'S CP. 19.5.47

Intermediate shafts, material SM Stl. Identification Marks 9654 WSS 11.6.47. Tube shaft, material - Identification Mark 9310 WSS 11.6.47.

Screw shaft, material -do- Identification Mark LLOYD'S CP 8.4.47. Steam Pipes, material Test pressure Date of Test

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 Yes If so, state name of vessel Richard Ironworks Yard No. 376.

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

The main engine was built in 1945 under the Society's supervision (See Hull Report No. 54837) and when completed was placed in Admiralty stock.

The line shafting, main condenser, attached pumps and boiler fittings have now been supplied by Messrs. Amos & Smith Ltd., and examined by the Society's Surveyors.

When satisfactorily installed the machinery will be eligible for the Notation +L.M.C. as stated in the Secretary's letters of 24.3.47 and 23.4.48.

2/5 at 1944 rate £17: 10: 0d. (Credit Hull)

The amount of Entry Fee £ 10: 10: 0d (Credit Ipswich)

1/5 at 1947 rate

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for, 21 MAY 1948

When received, 19

Committee's Minute

FRI. 20 MAY 1948

Assigned See F.E. Welch. spt.