

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report

10

When handed in at Local Office

5: 6: 1945 Port of

Aberdeen.

No. in Survey held at
Reg. Book.

Aberdeen.

Date, First Survey 26: 2: 45 Last Survey 29: 5: 1945.

(Number of Visits 10.)

on the SS FIRE BEAM

Tons { Gross 1553.43
Net 892.58

Built at Aberdeen

By whom built Hall Russell & Co. P.

Yard No. 485

When built 1945

Engines made at Glasgow

By whom made D. Rowan & Co. P.

Engine No. 1133

When made "

Boilers made at "

By whom made "

Boiler No. 1133

When made "

Registered Horse Power

Owners Geo. Light & Co. P.

Port belonging to London

Nom. Horse Power as per Rule 184.

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes.

Trade for which Vessel is intended COAL TRADE.

ENGINES, &c.—Description of Engines

Triple expansion

Revs. per minute 90.

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

Mid. length thickness

Thickness around eye-hole

Intermediate Shafts, diameter

as per Rule

as fitted

Thrust shaft, diameter at collars

as per Rule

as fitted

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

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

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 dipped or protected between the liners

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

shaft If so, state type

Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia.

Pitch

No. of Blades

Material

whether Moveable

Total Developed Surface

sq. feet

Feed Pumps worked from the Main Engines, No.

Diameter

Stroke

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No.

Diameter

Stroke

Can one be overhauled while the other is at work

Feed Pumps { No. and size 1-4" x 2 1/2" x 5"

Pumps { How driven Steam Duplex

Pumps connected to the { No. and size 1-6" x 4" x 6" 1-9" x 11" x 10"

Main Bilge Line { How driven Steam Duplex

Ballast Pumps, No. and size 1-9" x 11" x 10"

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 ER 1-2 1/2, BR 1-2 1/2

In Pump Room None

In Holds, &c. N° 1 Hold 1-3 1/2. N° 2 Hold 2-3

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-5"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size 1-3 1/2"

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 both.

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 both.

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 None

How are they protected

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 S)

Total Heating Surface of Boilers 2450 square feet

Which Boilers are fitted with Forced Draft Yes

Which Boilers are fitted with Superheaters Yes

No. and Description of Boilers One single ended

Working Pressure 200 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

If so, is a report now forwarded? Yes. No. 69438

IS A DONKEY BOILER FITTED? Yes

If so, is a report now forwarded? Yes. No. 69436

Can the donkey boiler be used for domestic purposes only No

PLANS. Are approved plans forwarded herewith for Shafting

Main Boilers

Auxiliary Boilers

Donkey Boilers

(If not state date of approval)

Superheaters

General Pumping Arrangements Yes

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes.

State the principal additional spare gear supplied

The foregoing is a correct description. FOR INSTALLATION ONLY.

For HALL RUSSELL & Co., Ltd.

Manufacturer.

Director & General Manager.



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Lloyd's Register
Foundation

009839-009847-0130

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

1945
Feb. 26. Mar. 7. Apr. 20. 27. 28. May 24. 25. 26. 28. 29.
10.

Dates of Examination of principal parts—Cylinders
Pistons
Crank shaft
Tube shaft
Stern tube
Completion of fitting sea connections
Completion of pumping arrangements
Main boiler safety valves adjusted
Crank shaft material
Intermediate shafts, material
Screw shaft, material
Is an installation fitted for burning oil fuel
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 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
General Remarks
Piston Rods
Thrust shaft
Screw shaft
Engine and boiler seatings
Engines holding down bolts
Boilers fixed
Engines tried under steam
Thickness of adjusting washers
Identification Mark
Thrust shaft material
Identification Mark
Tube shaft, material
Identification Mark
Steam Pipes, material
Test pressure
Date of Test
Is the flash point of the oil to be used over 150°F.
If so, have the requirements of the Rules been complied with
If so, state name of vessel
The machinery of this vessel has been constructed under special survey in accordance with the Rules and approved plans (see Gls Rpt N° 9438) The engine & boiler have been securely fitted on board the vessel and tried under power with satisfactory results. The materials and workmanship are good. The machinery of this vessel is eligible in my opinion to be classed in the Register Book, and to have notation of I L MC 5-45 (in red) and notation of TS-0G.
Note: Report on Electrical Installation attached.

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

Committee's Minute

Assigned + LMC 5.45 Spt.
F.D. C.L. O.G.

Signature of Engineer Surveyor

Engineer Surveyor to Lloyd's Register of Shipping.



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