

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

17 JUN 1936

Date of writing Report

19

When handed in at Local Office

13. 6. 1936

Port of

Glasgow

No. in Survey held at
Reg. Book.

Troon

Date, First Survey

9-12-35

Last Survey

12th June 1936

(Number of Visits 18)

Gross 926

on the

S.S. "THE EARL"

Tons

Net 481

Built at

Troon

By whom built

Messrs Ailsa S. B. Co. Ltd

Yard No. 422

When built 1936

Engines made at

Troon

By whom made

do.

Engine No. 157

When made 1936

Boilers made at

Glasgow

By whom made

David Rowan & Co. Ltd

Boiler No. 416

When made 1936

Registered Horse Power

71.08

Owners

J. Hay & Sons Ltd

Port belonging to

Glasgow

Nom. Horse Power as per Rule

112

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

Trade for which Vessel is intended

Coasting

ENGINES, &c.

Description of Engines

Steam Triple expansion reciprocating

Revs. per minute

89

Dia. of Cylinders

13 1/2" - 22 1/2" - 38"

Length of Stroke

30"

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule 7.965"

as fitted 8.125"

Crank pin dia.

8.125"

Crank webs

Mid. length breadth

15 1/2"

Thickness parallel to axis

5"

Mid. length thickness

5"

shrunk

Thickness around eye-hole

39/16"

Intermediate Shafts, diameter

as per Rule 7.586"

as fitted none

Thrust shaft, diameter at collars

as per Rule 7.965"

as fitted 8.125"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 8.544"

as fitted 8.75"

Is the

tube

screw

shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule 5.556"

as fitted 5.563"

Thickness between bushes

as per Rule 4.417"

as fitted 4.38"

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

Yes

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

Yes

If two liners are fitted, is the shaft lapped or protected between the liners

Yes

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

Yes

shaft

If so, state type

Yes

Length of Bearing in Stern Bush next to and supporting propeller

35"

Propeller, dia.

11' 6"

Pitch

13' 3"

No. of Blades

4

Material

Cast iron

whether Moveable

No

Total Developed Surface

45.7

sq. feet

Feed Pumps worked from the Main Engines, No.

2

Diameter

2 5/8"

Stroke

15"

Can one be overhauled while the other is at work

Yes

Bilge Pumps worked from the Main Engines, No.

2

Diameter

2 5/8"

Stroke

15"

Can one be overhauled while the other is at work

Yes

Feed Pumps

No. and size

1 @ 6 1/2" x 4 1/4" x 6"

Pumps connected to the

Main Bilge Line

No. and size

1 @ 7" x 8" x 8"

How driven

Steam

Main Bilge Line

How driven

Steam

Ballast Pumps, No. and size

2 @ 7" x 8" x 8"

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

1 @ 7" x 8" x 8"

Are two independent means arranged for circulating water through the Oil Cooler

Yes

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room

1. 2 1/4" Engine room aft.

2. 2 1/4" Boiler room

In Pump Room

Yes

In Holds, &c.

2. 3" Hold.

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

1 @ 4"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

1 @ 3"

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

above.

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

Hold Bilges

How are they protected

wood covered

What pipes pass through the deep tanks

Yes

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 Tunnel watertight

none

Is it fitted with a watertight door

Yes

worked from

Yes

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

Total Heating Surface of Boilers

1930 sq. ft.

Is Forced Draft fitted

No

No. and Description of Boilers

One Single ended Cylinder

Working Pressure

215 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Please see Glasgow report No. 56746

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

Is the donkey boiler intended to be used for domestic purposes only

Yes

PLANS.

Are approved plans forwarded herewith for Shafting

25-10-35

Main Boilers

Yes

Auxiliary Boilers

Donkey Boilers

Yes

Superheaters

Yes

General Pumping Arrangements

Yes

Oil fuel Burning Piping Arrangements

Yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied

Yes

State the principal additional spare gear supplied

1. propeller, 1 set of air and circulating pump valves,

6 condenser tubes, 1 eccentric strap, 4 Boiler tubes, 1 safety valve spring

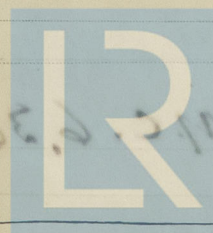
1 set Boiler feed check valves, 1 set junk ring bolts, 1 set Piston rod and

valve spindle metallic packing

The foregoing is a correct description,

FOR AILSA SHIPBUILDING CO., LIMITED

Manufacturer.



© 2020

Lloyd's Register
Foundation

003217-003222-0056

Lloyd's Register
Foundation