

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Shull

No. in Survey held at

Thorne

Date, First Survey

17.5.43.

Last Survey

30.8.1943.

Reg. Book.

on the

Steel Single Screw "EMPIRE LEWIS"

(Number of Visits

19.)

Gross

138

Built at

Thorne

By whom built

R. Dunston Ld.

Yard No.

383

When built

1943

Engines made at

Paisley

By whom made

McKie & Baxter

Engine No.

1339

When made

"

Boilers made at

Blackburn

By whom made

Foster, Yate & Son Ld.

Boiler No.

6227

When made

"

Registered Horse Power

Owners

Ministry of War Transport

Port belonging to

Nom. Horse Power as per Rule

85

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

Yes

Trade for which Vessel is intended

Towing Services.

ENGINES, &c.—Description of Engines

Su Glo. Rm No 67359

Revs. per minute

140.

Dia. of Cylinders

12, 20, 32

Length of Stroke

22

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule

6.44

as fitted

6.13

Crank pin dia.

6.13

Crank webs

Mid. length breadth

9.1/2

Thickness parallel to axis

4.1/8

Intermediate Shafts, diameter

as per Rule

6.13

as fitted

6.13

Thrust shaft, diameter at collars

as per Rule

6.44

as fitted

6.13

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

7.12

as fitted

7.12

Is the

{ tube }

{ screw }

shaft fitted with a continuous liner

{ no 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 lapped or protected between the liners

✓

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

Shaft

YES

If so, state type

NEWARK

Length of Bearing in Stern Bush next to and supporting propeller

29"

Propeller, dia.

8'-3"

Pitch

10'-0"

No. of Blades

4

Material

C.I.

whether Moveable

Solid

Total Developed Surface

24

sq. feet

Feed Pumps worked from the Main Engines, No.

1

Diameter

2 1/2"

Stroke

12

Can one be overhauled while the other is at work

✓

Bilge Pumps worked from the Main Engines, No.

1

Diameter

2 1/2"

Stroke

12

Can one be overhauled while the other is at work

✓

Feed

No. and size

One 6 x 4 1/2 x 10

Pumps connected to the

{ No. and size

One 7 1/2 x 5 x 6

{ How driven

Ind. Str.

Pumps

How driven

Ind. Str.

Main Bilge Line

{ How driven

Ind. Str.

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

none

Ballast Pumps, No. and size

One 7 1/2 x 5 x 6

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

Suctions, connect d. to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room

ER. 1-2"

BR 1-2"

also direct suction - subelons.

In Pump Room

none

In Holds, etc.

FPT 1-2"

APT 1-2"

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

1-3 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

1-2 1/2" ER. 1-2 1/2" BR

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 mid-boxes, placed above the level of the working floor, with straight fall pipes to the bilges

YES

Are all Sea Connections fitted direct on the skin of the ship

YES OR ON EW STL

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

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

PART OF ER

Is it fitted with a watertight door

✓

worked from

✓

MAIN BOILERS, &c.—(Letter for record

S)

Total Heating Surface of Boilers

1716

Which Boilers are fitted with Forced Draft

None

Which Boilers are fitted with Superheaters

NONE

No. and Description of Boilers

1SB

Working Pressure

200 lb

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

YES

IS A DONKEY BOILER FITTED?

NONE

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

16.7.42

Main Boilers

10.11.44

Auxiliary Boilers

✓

Donkey Boilers

✓

Superheaters

✓

General Pumping Arrangements

17.3.41

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

As per Specification

The foregoing is a correct description.

Manufacturer.



© 2021

Lloyd's Register
Foundation

010961 010969 0089

E. LEWIS

During progress of
work in shops - -

SEE GLS. RPT. N° 67359.

Dates
of Survey
while
building

During erection on
board vessel - -

1943 - MAY 17, JU. 21, JULY 14, 15, 19, 21, 22, 23, 29, AUG 3, 9, 10, 13, 16, 17
18, 23, 26, 30

Total No. of visits

19.

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Piston Rods

Connecting rods

Crank shaft

Thrust shaft

Intermediate shafts

Tube shaft

Screw shaft

Propeller

Stern tube

Engine and boiler seatings

Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements

Main boiler safety valves adjusted

Boilers fixed

Thickness of adjusting washers

Engines tried under steam

Crank shaft material

Identification Mark

Thrust shaft material

Identification Mark

Intermediate shafts, material

Identification Marks

Tube shaft, material

Identification Mark

Screw shaft, material

Identification Mark

Steam Pipes, material

Test pressure

Date of Test

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

Is this machinery duplicate of a previous case

YES

If so, state name of vessel

"E. SERAPH"

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

The machinery of this vessel has been installed under Special Survey in accordance with the Rules requirements, approved plans & Specification. The materials and workmanship are good and machinery found satisfactory in every respect after all tests.

Eligible for record of LMC 8, 43. OG. T 3cy. 12, 29, 32, 33, 34, 35. NHP 85. 15B. 200 lb. 3C. HS 1716 lb GS 59 lb

The amount of Entry Fee ... £ : : When applied for,
Special Class (P&M) £ 5 : 6/3 : 29 SEP 1943
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19

Committee's Minute

Assigned

+ LMC 8.43

OG

W. S. Shieles

Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register
Foundation