

Rpt. 4.

N. E. 14/ Installing Contract No 8070

No. 102336

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

13 SEP 1944

Date of writing Report

19

When handed in at Local Office

11/9/44

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle on Tyne

Date, First Survey

25.6.1943

Last Survey

30 Aug 1944

Reg. Book

"EMPIRE LADY"

(Number of Visits)

60

Tons

Gross 7046

Net 4747

Built at

Newcastle

By whom built

Shipbuilding Corp. (Lyme Branch)

Yard No.

8

When built

1944-8

Engines made at

Newcastle

By whom made

N.E. Marine Eng Co (1933) Ltd

Engine No.

3057

When made

1944-8

Boilers made at

BIRKENHEAD

By whom made

Cammell Laird & Co Ltd

Boilers No.

2223

When made

1941

Registered Horse Power

Owners

Min. of War Transport

BLR No.

2239

When made

1943

Port belonging to

NEWCASTLE

Nom. Horse Power as per Rule

554

Is Refrigerating Machinery fitted for cargo purposes

yes

Is Electric Light fitted

yes

Trade for which vessel is intended

Ocean going

ENGINES, &c.—Description of Engines

Triple Expansion

Revs. per minute

76

Dia. of Cylinders

24 1/2 x 37.70

Length of Stroke

48

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule 13.98

as fitted 14 1/4

Crank pin dia.

14 1/4

Crank webs

Mid. length breadth 26 1/2

Thrust shaft, diameter at collars

as per Rule 13.98

as fitted 14 1/2

Intermediate Shafts, diameter

as per Rule 13.32

as fitted 13 3/8

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 14.84

as fitted 15 1/4

Is the

tube

screw

shaft fitted with a continuous liner

yes

Bronze Liners, thickness in way of bushes

as per Rule .753

as fitted 13/16

Thickness between bushes

as per Rule .565

as fitted 9/32

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

one piece

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

tight fit

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

at

no

If so, state type

yes

Length of Bearing in Stern Bush next to and supporting propeller

5-1"

Propeller, dia.

17-10 1/2"

Pitch

15-6"

No. of Blades

4

Material

C.I.

whether Moveable

no

Total Developed Surface

114 3/4 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

Ind. Feed

Pumps

No. and size

2 @ 7 x 9 1/2 x 21" + 1 @ 9 1/2 x 7 x 21"

Pumps connected to the

Main Bilge Line

No. and size

1 @ 10 1/2 x 13 1/2 x 24" + 2 @ 9 1/2 x 7 x 21" + 2 @ 4 1/2 x 26"

How driven

Steam

Main Bilge Line

How driven

Steam

M. Eng.

Ballast Pumps, No. and size

1 @ 10 1/2 x 13 1/2 x 24"

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

2 @ 3" in Eng Rooms

2 @ 3" in Boiler Rooms

In Pump Room

yes

In Holds, &c.

1 Pr 3" in each hold

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 @ 5"

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

below

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

forward bilge suction

How are they protected

lumber boards

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

yes

Is it fitted with a watertight door

no

worked from

MAIN BOILERS, &c.—(Letter for record

S)

Total Heating Surface of Boilers

8246 sq. ft.

Which Boilers are fitted with Forced Draft

2 M & 1 Aux

Which Boilers are fitted with Superheaters

2 Main Boilers only

No. and Description of Boilers

2 SB + 1 Aux SB

Working Pressure

220 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

yes

also for Aux. Blr.

LIVERPOOL RPT 116658

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

yes

Can the donkey boiler be used for domestic purposes only

yes

PLANS.

Are approved plans forwarded herewith for Shafting

Standard

Main Boilers

Auxiliary Boilers

Donkey Boilers

yes

(If not state date of approval)

Superheaters

Standard

General Pumping Arrangements

6-9-44

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

2 m. org bolts + nuts, 12 tubes for Main Condenser with 24 ferrules + 50 packings, 2 Safety Valve springs (1 for Main + 1 for Aux. Blrs), etc etc.

The Joint Owners Association, LONDON

John Neill

DIRECTOR

Manufacturer.

003371-003384-0186

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The machinery has been constructed and fitted on board under special survey in accordance with the approved plans, specifications and the Society's Rules. The materials & workmanship are good. The machinery was tested satisfactorily under working conditions and is eligible, in our opinion, for record H.M.C. 8.4 and the notations CL. 2SB(spt) & 1Aury. 5B. 230th. F.D.

Engineer Surveyor to Lloyd's Register of Shipping

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