

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report

E3 NOV 1943

When handed in at Local Office

E3 NOV 1943

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Wallend & Walker

Date, First Survey

15 June, 1942

Last Survey

5 October, 1943

Reg. Book

(Number of Visits)

61

37252 on the

SS. "EMPIRE FLAG"

Tons

Gross 7024

Net 4734

Built at

Walker

By whom built

Armstrong Whitworth & Co. Ltd.

Yard No.

4

When built

1943

Engines made at

Wallend

By whom made

H. E. Marine Eng. Co. Ltd. 3052

When made

1943

Boilers made at

"

By whom made

Boiler No.

3036

When made

1943

Registered Horse Power

Owners Ministry of War Transport

Port belonging to

Newcastle

Nom. Horse Power as per Rule

542

Is Refrigerating Machinery fitted for cargo purposes

yes

Is Electric Light fitted

yes

Trade for which vessel is intended

Ocean going

GINES, &c.—Description of Engines

Triple Expansion

Revs. per minute

76

Dia. of Cylinders

24 1/2, 39, 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 3/4

Crank webs

Mid. length breadth 22

Mid. length thickness 9

Thrust shaft, diameter at collars

as per Rule 13.98

as fitted 14 1/4

Intermediate Shafts, diameter

as per Rule 13.32

as fitted 13 5/8

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 14.84

as fitted 15 1/4

Is the shaft fitted with a continuous liner

yes

Bronze Liners, thickness in way of bushes

as per Rule 7.53

as fitted .81

Thickness between bushes

as per Rule 5.55

as fitted .65

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 tube

at

no

If so, state type

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.

2

Diameter

4

Stroke

27

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No.

2

Diameter

4

Stroke

27

Can one be overhauled while the other is at work

yes

Feed Pumps

No. and size

2 8 x 10 1/2 x 22, 1 9 1/2 x 7 x 21

Pumps connected to the

Main Bilge Line

No. and size

1 10 1/2 x 13 x 24, 1 9 1/2 x 7 x 21

How driven

Steam

M. Eng.

Ballast Pumps, No. and size

1 10 1/2 x 13 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 2 3" in Eng. Rm.

2 2 3" in Boiler Room

In Pump Room

1 at 2 1/2" Tunnel Well

In Holds, &c. 1 Port 18" in 3" in each hold

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

1 2 9"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

1 2 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

For Bilge Suctions

How are they protected

lumber boards

What pipes pass through the deep tanks

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

7974

Which Boilers are fitted with Forced Draft

yes

Which Boilers are fitted with Superheaters

P & S main boilers

No. and Description of Boilers

2 SB + 1 aux SB

Working Pressure

220 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

yes

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

yes

Can the donkey boiler be used for domestic purposes only

PLANS.

Are approved plans forwarded herewith for Shafting

B type

Main Boilers

10.11.41

Auxiliary Boilers

11.10.41

Donkey Boilers

yes

(If not state date of approval)

Superheaters

Standard

General Pumping Arrangements

27.8.42

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

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.

The foregoing is a correct description.

John Neill

Manufacturer.




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