

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

7 DEC 1931

NEWCASTLE-ON-TYNE

Date of writing Report

19

When handed in at Local Office

4/12/1931 Port of

No. in Survey held at

Walker.

Date, First Survey

24 July

Last Survey

1<sup>st</sup> Dec.

1931

Reg. Book.

on the

Single Screw Triple Expansion for the S.S. "FLATHOUSE"

Tons

Gross

Net

Built at

Sunderland.

By whom built

Swan Hunter, Wigham R. &amp; Co. Ltd. Yard No. 1473

When built

1931.

Engines made at

Walker.

By whom made

Swan Hunter, W. R. &amp; Co. Ltd. Engine No. 1416

when made

1931.

Boilers made at

Walker.

By whom made

Swan Hunter, W. R. &amp; Co. Ltd. Boiler No. 1416

when made

1931.

Registered Horse Power

-

Owners

Hepburn Clarke, &amp; Co. Ltd. Port belonging to

London.

Nom. Horse Power as per Rule

149

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

Trade for which Vessel is intended

Coasting.

## ENGINES, &amp;c.—Description of Engines

Triple Expansion

Revs. per minute

68.

Dia. of Cylinders

19 x 31 x 51

Length of Stroke

36"

No. of Cylinders

3

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule

9.96"

Crank pin dia.

10"

Crank webs

Mid. length breadth

14 1/2"

shrink

Thickness parallel to axis

6 1/2"

Intermediate Shafts, diameter

as per Rule

9.48"

as fitted

9.5"

Thrust shaft, diameter at collars

as per Rule

9.96"

as fitted

10"

Tube Shafts, diameter

as per Rule

-

Screw Shaft, diameter

as per Rule

10.69"

as fitted

10.75"

Is the shaft fitted with a continuous liner

yes.

Bronze Liners, thickness in way of bushes

as per Rule

2 1/32"

as fitted

Thickness between bushes

as per Rule

4.68"

as fitted

5.95"

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 shaft

Length of Bearing in Stern Bush next to and supporting propeller

3.7"

Propeller, dia.

14.6"

Pitch

16.6"

No. of Blades

4

Material

C. S.

whether Movable

No

Total Developed Surface

66

sq. feet

Feed Pumps worked from the Main Engines, No.

2

Diameter

2 7/8"

Stroke

19"

Can one be overhauled while the other is at work

yes

Bilge Pumps worked from the Main Engines, No.

2

Diameter

3 1/4"

Stroke

19"

Can one be overhauled while the other is at work

yes

Feed Pumps

No. and size

1 - 6" x 4 1/2" x 6"

Pumps connected to the

Main Bilge Line

No. and size

1 - 9" x 10" x 10"

How driven

Steam

Ballast Pumps, No. and size

1 - 9" x 10" x 10"

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

3 - 2 1/2"

In Holds, &amp;c.

4 - 3"

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 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

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.

That Pipes pass through the bunkers

Bilge suction

How are they protected

Wood.

That pipes pass through the deep tanks

yes.

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

Is it fitted with a watertight door

worked from

MAIN BOILERS, &amp;c.—(Letter for record

S.)

Total Heating Surface of Boilers

2888 sq. ft.

Forced Draft fitted

No

No. and Description of Boilers

Working Pressure

180 lbs. sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

yes.

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

PLANS.

Are approved plans forwarded herewith for Shafting

yes

Main Boilers

yes

Auxiliary Boilers

-

Donkey Boilers

-

Superheaters

-

General Pumping Arrangements

yes

Oil fuel Burning Piping Arrangements

SHAFTING GEAR. State the articles supplied:—

as per Societies Rules &amp; attached list.

The foregoing is a correct description.

FOR SWAN, HUNTER &amp; WIGHAM RICHARDSON, LTD.

G. F. Tweed

DIRECTOR

Manufacturer.



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