

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report

19

When handed in at Local Office

14/5/1025 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle-on-Tyne

Date, First Survey

6 Aug 1924

Last Survey

1 May 1925

Reg. Book.

89297 on the

Steel Sc.

INANDA

(Number of Visits 65)

Tons

Gross

Net

Built at Newcastle

By whom built

Swanston's & Migham Richardson & Co. Ltd.

Yard No. 1259

When built

1925

Engines made at Newcastle

By whom made Wallsend Slipway & Eng. Co. Ltd.

Engine No. 856

when made

1925

Boilers made at Newcastle

By whom made Wallsend Slipway & Eng. Co. Ltd.

Boiler No. 856

when made

1925

Registered Horse Power

Owners

J. I. Harrison

Port belonging to Liverpool

Nom. Horse Power as per Rule

606

606

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes

Trade for which Vessel is intended

Ocean Trade

ENGINES, &c.—Description of Engines

Inverted Quadruple Expansive

Revs. per minute

Dia. of Cylinders 26" 36" 52" 76"

Length of Stroke 54"

No. of Cylinders 4

No. of Cranks 4

Crank shaft, dia. of journals

as per Rule 15.18"

as fitted 15.18"

Crank pin dia. 15.18"

Crank webs

Mid. length breadth 2.5"

Thickness parallel to axis 10.18"

Intermediate Shafts, diameter

as per Rule 14.46"

as fitted 14.46"

Thrust shaft, diameter at collars

as per Rule 15.18"

as fitted 15.18"

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

Is the

shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule 7.9"

as fitted 7.9"

Thickness between bushes

as per Rule 5.9"

as fitted 5.9"

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 shaft

No

Length of Bearing in Stern Bush next to and supporting propeller

69.18"

Propeller, dia. 18'-9"

Pitch 17'-3"

No. of Blades 4

Material Bronze

whether Moveable

Yes

Total Developed Surface

110

sq. feet

Feed Pumps worked from the Main Engines, No. 2.

Diameter 4.18"

Stroke 27"

Can one be overhauled while the other is at work

Yes

Bilge Pumps worked from the Main Engines, No. 2.

Diameter 5"

Stroke 27"

Can one be overhauled while the other is at work

Yes

Feed Pumps

No. and size

Two 10.18" x 8" x 22"

How driven

Steam

Pumps connected to the

Main Bilge Line

No. and size

How driven

Steam

One 10.18" x 10" x 12" Ballast

One 10.18" x 6.18" x 9" Ser. Ser.

One 3" x 5" S.S.

Ballast Pumps, No. and size

One 7" Centrifugal - One 10.18" x 10" x 12"

One 10.18" x 6.18" x 9"

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

None

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

One 5"

Two 3"

Two 2.18"

In Holds, &c.

No. 1 Hold 2-3"

No. 2 Hold 2-3"

No. 3 Hold 2-2.18"

Deep Tank 2-2.18"

Port Hold 2-2.18"

No. 4 Hold 2-2.18"

Tunnel well 2.18"

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

One 15"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

One 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 the deep water line

main discharge - on water line

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 are carried through the bunkers

Forward Bilge Suctions

How are they protected

Wood cased

What pipes pass through the deep tanks

Bilge, Deep Tank & Ballast Suctions

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

Yes

worked from upper Deck

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

Total Heating Surface of Boilers

10458

Is Forced Draft fitted

No

No. and Description of Boilers

2 H.E. & 1 S.E. Cyl. Mult.

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

PLANS.

Are approved plans forwarded herewith for Shafting

Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

State the articles supplied:—Propeller shaft - key & nut - nuts & bolts - boss with studs, nuts & locking washers - 1000 blades -

One Thompson's coupling - two pairs top and one pair bottom end bearings - one air pump rod complete - one circulating pump impeller with bronze shaft - set air pump valves - air pump valve seating complete with studs & guards - two feed pump valves & seats - two boiler chest valves - 4 top end connecting rod bolts & nuts - 2 bottom end bolts & nuts - 2 main bearing bolts & nuts - two sets coupling bolts - two bilge pump valves - set of three pump suction & discharge valves - one set of valves each for Ballast pump, Donkey pump and auxiliary bilge donkey pump - slide rod complete with saddle end - one eccentric sheave (for H.E. or S.E.) - one eccentric sheave (for 1st or 2nd S.P.) - one eccentric strap - 50 condenser tubes - 100 ferrules - one spring for each escape valve & 6 safety valve springs - 12 boiler tubes - one set piston rings & springs for each of H.E. & 1st S.P. cylinder - one set piston pump for each of 2nd S.P. and L.P. cylinders

The foregoing is a correct description,

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

Manufacturer.

DIRECTOR.



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