

Rpt. 4.

No. 32139

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

JUL 16 1937.

Date of writing Report

19

When handed in at Local Office

10 July 1937 Port of

Sunderland.

No. in Survey held at

Sunderland.

Date, First Survey

Apr 9

Last Survey

July 9 1937

Reg. Book.

on the

"BIDDLESTONE"

(Number of Visits 14)

Tons

Gross 4910

Net 3953

Built at

Sunderland

By whom built

Short Bros Ld

Yard No. 450

When built 1934

Engines made at

Newcastle on Tyne

By whom made

White's Mar. Eng. Co. Ld

Engine No. 110

When made 1934

Boilers made at

Stockton

By whom made

Stockton Chem. Eng. & Rep. Co. Ld

Boiler No. 6245/6

When made 1934

Registered Horse Power

Owners

The White Shipping Co Ld

Port belonging to

Newcastle.

Nom. Horse Power as per Rule

348.

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Ys.

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines

Please see Mve. Rpt. N° 95155

Propeller

Revs. per minute 64

Dia. of Cylinders

Length of Stroke

No. of Cylinders

No. of Cranks

Crank shaft, dia. of journals

as per Rule

Crank pin dia.

as fitted

Crank webs

Mid. length breadth

as per Rule

shrunk

Thickness parallel to axis

as fitted

Thickness around eye-hole

Intermediate Shafts, diameter

as per Rule

as fitted

Thrust shaft, diameter at collars

as per Rule

as fitted

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

Is the

tube

screw

shaft fitted with a continuous liner

Ys.

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

Ys.

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

Ys.

If two liners are fitted, is the shaft lapped or protected between the liners

Ys.

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

shaft

No.

If so, state type

Ys.

Length of Bearing in Stern Bush next to and supporting propeller

4'-6"

Propeller, dia.

14'-4"

Pitch

14'-12"

(MEAN)

No. of Blades

4

Material

Bronze

whether Movable

No.

Total Developed Surface

100

sq. feet

Feed Pumps worked from the Main Engines, No.

none

Diameter

Stroke

Can one be overhauled while the other is at work

Ys.

Bilge Pumps worked from the Main Engines, No.

none

Diameter

Stroke

Can one be overhauled while the other is at work

Ys.

Feed Pumps

No. and size

one 6" x 8 1/2" x 13" + one rotary

How driven

Steam

Pumps connected to the

Main Bilge Line

No. and size

two 10" x 11" x 10" 1 @ 6" x 6" x 6"

How driven

Steam

1 @ 6" x 5 1/2" x 15"

one rotary

Ballast Pumps, No. and size

1 @ 10" x 11" x 10"

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

Ys.

Suctions, connected to both Main Bilge Pumps and Auxiliary

Ys.

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

Ys.

Bilge Pumps;—In Engine and Boiler Room

3 @ 3" in E.R. 1 @ 2" thrust room 1 @ 2 1/2" tunnel well.

In Pump Room

one main hold 3" p.r.s. one main hold 3 1/2" p.r.s.

one main hold 3" p.r.s.

one main hold 3 1/2" p.r.s.

one main hold 3" p.r.s.

one main hold 3 1/2" p.r.s.

one main hold 3" p.r.s.

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

1 @ 8"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

1 @ 5" 1 @ 4 1/2"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

Ys.

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

Ys.

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

Ys.

Are they fitted with Valves or Cocks

Both.

Are the Overboard Discharges above or below the deep water line

Ys.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Ys.

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Ys.

How are they protected

hard casings.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Ys.

What Pipes pass through the bunkers

Ys.

What pipes pass through the deep tanks

none

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Ys.

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

Ys.

compartment to another

Ys.

Is the Shaft Tunnel watertight

Ys.

Is it fitted with a watertight door

Ys.

worked from

E.R. top gratings

MAIN BOILERS, &c.—(Letter for record)

S.

Total Heating Surface of Boilers

4886 sq. ft.

Is Forced Draft fitted

Ys.

No. and Description of Boilers

1 Ans.

Working Pressure

240 lbs/sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Ys.

Middlesbrough Rpts 15946, 15999.

IS A DONKEY BOILER FITTED?

Ys.

If so, is a report now forwarded?

Ys.

Is the donkey boiler intended to be used for domestic purposes only

Ys.

PLANS.

Are approved plans forwarded herewith for Shafting

(Nwe.)

Main Boilers

Ys.

Auxiliary Boilers

Ys.

Donkey Boilers

Ys.

Superheaters

(Manchester)

General Pumping Arrangements

Ys.

Oil fuel Burning Piping Arrangements

Ys.

SPARE GEAR.

Has the spare gear required by the Rules been supplied

Ys.

State the principal additional spare gear supplied

Please see Nwe. Rpt. N° 95155.

The foregoing is a correct description,

Signed White for White's Marine Engineering Co. Ltd.

Manufacturer.



© 2020

Lloyd's Register

Foundation

W 188 - 0018

During progress of work in shops - - -

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits 14

Dates of Examination of principal parts - Cylinders Slides Covers

Pistons Piston Rods Connecting rods

Crank shaft Thrust shaft 22/3/34 (Hull) Intermediate shafts 22/3/34, 30/3/34, 19/4/34, 22/4/34

Tube shaft Screw shaft 19/4/34 (Hull) Propeller 18/5/34

Stern tube 4/5/34 Engine and boiler seatings 9/4/34, 18/5/34 Engines holding down bolts 30/6/34

Completion of fitting sea connections 9/4/34

Completion of pumping arrangements 6/4/34 Boilers fixed 30/6/34 Engines tried under steam 6/7/34

Main boiler safety valves adjusted 5/4/34 Thickness of adjusting washers P.B. A 3/8" 5/16" S.C. B. A 9/32" A 3/8" F 9/32" A 3/8"

Crank shaft material Ingot Steel Identification Mark Nos 2503, 2504, 2505, 2528 Thrust shaft material Ingot Steel Identification Mark 22.3.34 D.L.H.C.

Intermediate shafts, material Ingot Steel Identification Marks 2529, 2530 Tube shaft, material S.D. Steel Identification Mark 1/6/34

Screw shaft, material Ingot Steel Identification Mark 19.4.34 Steam Pipes, material S.D. Steel Test pressure 420 lb Date of Test 30/6/34

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 Not desired

Is this machinery duplicate of a previous case no. If so, state name of vessel

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

This machinery has now been securely fitted on board the vessel & tried under working conditions alongside Quay with Satisfactory results.

The machinery is now eligible in my opinion to have notation L.M.C. 7.34 T.S.(CL) in the Register Books.

J. Fraser

Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ : : When applied for, 7.6.37

Special ... £ : : at time

Donkey Boiler Fee ... £ : : When received, 31.7.37

Travelling Expenses (if any) £ : : 19.4.37

See also Tunc 95155 4/8

Committee's Minute TUE 20 JUL 1937

Assigned + Lmc 7.37 288 (Spt) 1 Ann

