

Rpt. 4.

Enclosures

Sba. letter 30/11/40. & 8 plns Nos. C2872 & 2873, D3623, 24 & 3626, F.3750, 51 & 3800.

No. 4285a.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 15th Nov. 1940. When handed in at Local Office

19 Port of Sourabaya, Java;

No. in Survey held at Sourabaya Dock Yard & Drydock etc Date, First Survey 13th Sep. 1939 Last Survey 16th Oct. 1940.

Reg. Book.

(Number of Visits 35)

Tons { Gross 215,53

Net

When built 1940.

Built at Sourabaya

By whom built N.V. Droogdok Mij. "Soerabaia"

Yard No. 251.

Engines made at Sourabaya

By whom made N.V. Droogdok Mij. "Soerabaia"

Engine No.

When made 1940.

Boilers made at

Cowes, Isle of Wight

By whom made White, J. Samuel, & Co. Ltd

Boiler No.

When made 1923

Registered Horse Power 41,4

Owners N.V. Borneo Sumatra Handel Mij.

Port belonging to Bandjermasin.

Horse Power as per Rule 41,4 39

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted Yes,

Vessel for which Vessel is intended Passenger and Cargo steamer.

Description of Engines Triple Expansion.

Revs. per minute 240

No. of Cylinders 8-5/16", 12-1/16"-20-1/16" Length of Stroke 14"

No. of Cylinders Three

No. of Cranks Three

Crank shaft, dia. of journals

as per Rule 4-3/32

as fitted 4-3/32

Crank pin dia. 4-3/32

Crank webs

Mid. length breadth 7" 5/8"

Mid. length thickness 7" 2 1/2"

Thickness parallel to axis

Thickness around eye-hole

One piece

Intermediate Shafts, diameter

as per Rule 3 1/8"

as fitted 3 1/8"

Screw Shaft, diameter

as per Rule 4 1/2"

as fitted 4-9/32"

Thrust shaft, diameter at collars

as per Rule 4-3/32"

as fitted 4-3/32"

Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 4 1/2"

as fitted 4-9/32"

Is the screw shaft fitted with a continuous liner

Yes

Liners, thickness in way of bushes

as per Rule 7/16"

as fitted 7/16"

Thickness between bushes

as per Rule 5/16"

as fitted 11/32"

Is the after end of the liner made watertight in the

liner boss Yes

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

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

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

If so, state type

Length of Bearing in Stern Bush next to and supporting propeller 17,3"

Propeller, dia. 4,95"

Pitch 4,28"

No. of Blades 4

Material cast iron

Whether Moveable no

Total Developed Surface 9,68 sq. feet

Pumps worked from the Main Engines, No. 2

Diameter 1 3/8"

Stroke 6 3/4"

Can one be overhauled while the other is at work Yes

Pumps worked from the Main Engines, No. 2

Diameter 1 3/8"

Stroke 6 3/4"

Can one be overhauled while the other is at work Yes

No. and size One 4 1/2"x2 3/4"x4"

Pumps connected to the Main Bilge Line

No. and size One general service pump 6"x5 1/2"x6"

How driven Separated steam pump

How driven Separated steam pump

Pumps, No. and size The same general service lubricating Oil pump.

Pumps, including Spare Pump, No. and size no oil pump.

Independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

Pumps;—In Engine and Boiler Room 4 suction 2" Ø

In Holds, &c. Cargo hold two suction 2" Ø

p Room no pump room

space one suction 2" Ø.

Water Circulating Pump Direct Bilge Suctions, No. and size One 3" Ø

Independent Power Pump Direct Suctions to the Engine Room Bilges,

size One 3" Ø

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

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

Sea Connections fitted direct on the skin of the ship Yes

Are they fitted with Valves or Cocks Valves & one blow off cock.

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.

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

Pipes pass through the bunkers bilge, ballast, feed- & freshwater

How are they protected Plated.

Pipes pass through the deep tanks

Have they been tested as per Rule

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

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

space to another Yes

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS (Letter for record)

Total Heating Surface of Boilers

88 M² - 83.6 = 900 #

Draft fitted no

No. and Description of Boilers One Yarrow

Working Pressure 220 lbs.

REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

DONKEY BOILER FITTED? no

If so, is a report now forwarded?

Boiler intended to be used for domestic purposes only

Are approved plans forwarded herewith for Shafting Yes

Main Boilers

none

Auxiliary Boilers

none

Donkey Boilers

none

none

General Pumping Arrangements Yes

Oil fuel Burning Piping Arrangements none

SPARE GEAR.

Spare gear required by the Rules been supplied Yes,

Principal additional spare gear supplied

One screwshaft with bronze liner and propeller.

The foregoing is a correct description.

N.V. Droogdok Maatschappij "SOERABAIA"

Manufacturer.



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Lloyd's Register Foundation

011636-011645-0259

1939: Sep; 13, 22, 25 & 29. Oct; 10, 31. Nov. 6, 8. Dec. 4, 28. 1940: May; 10, 27. June; 5, 15, 27 & 29.

Dates of Survey while building: During progress of work in shops - - - 1940: May 30. June; 5. July; 4, 13, 18. Aug. 5, 7, 28. Sept. 10, 17, 26, Oct; 1, 6, 7, 8, 10, 14 & 16. During erection on board vessel - - -

Total No. of visits 34.

Dates of Examination of principal parts: Cylinder 27/5/40. 15, 27 & 29/6/40. Slides Valves 13 & 22/9/39. 18/7/40. Covers 18/7/40. Pistons 13/9/39, 18/7/40. Piston Rods 13/9/39. 18/7/40. Connecting rods 13 & 25/9/39. 31/10/39. 18/7/40. Crank shaft 13/9/39. 6/11/39. 4/12/39. 30/5/40. 13/7/40. 28/8/40. 30/5/40. 28/8/40. Intermediate shafts 13/9/39. 10 & 26/9/40. 28/8/40. Tube shaft 10/9/40. Screw shaft 13/9/39. 4/7/40. Propeller 4/7/40. 18/7/40. 6/10/40. Engines holding down bolts 10 & 17 Sept. 1 & 6. Stern tube 28/12/39. 5/6/40. 6/10/40. Engine and boiler seatings 10/10/39. 22/9/40. Completion of fitting sea connections 4/7/40. Boilers fixed 17/8/40. 17 & 26/9/40. Engines tried under steam 1, 7, 8, 14 & 16 Oct. Completion of pumping arrangements 10/9/40. Thickness of adjusting washers 15/10/40. Main boiler safety valves adjusted 7/10/40. Thrust shaft material S.M. Steel Identification Mark J.V. 13-9. Crank shaft material see letter Identification Mark - Tube shaft, material - Identification Mark - Intermediate shafts, material S.M. Steel Identification Marks J.V. 13-9-40. Steam Pipes, material Copper Test pressure 360 lbs Date of Test 27/6/40. Screw shaft, material S.M. Steel Identification Mark J.V. 29/10/39. Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. none. 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 - Is this machinery duplicate of a previous case none If so, state name of vessel -

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

The machinery has been built and fitted on board to my satisfaction and upon completion tri

under working condition, in accordance with the approval plans, Society's letters and gene

confirmity with the Society's Rules, and the workmanship being good and all found satisfac

I am of opinion that the vessel's machinery is eligible to be classed +LMC.10.40 (Class co

templated)

Certificate to be sent to

The amount of Entry Fee ... £. 48,00. : When applied for, 23/10/40.

Special ... £. 360,00. : When received, 23/10/40.

Donkey Boiler Fee ... £. 34,00.

Airmail postage & cables ... £. 33,00.

Travelling Expenses (if any) ... £. 25,00.

Subsistence ...

Committee's Minute TUE. 4 MAR 1941

Assigned

Engineer Surveyor to Lloyd's Register of Shipping