

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

DSC

Received at London Office

20 NOV 1939

of writing Report 9-11-1939 When handed in at Local Office 10 Port of ROTTERDAM

in Survey held at ROTTERDAM Date, First Survey 20-1-39 Last Survey 8-11-1939

on the TWIN-SCREW STEAMER "SAROENA" (Number of Visits 05) Tons { Gross 6671 Net 3801

By whom built N.V. WILTON-FYENOORD Yard No. 608 When built 1939

By whom made ROTT. DROOGDOK M.Y. Engine No. 242-243 When made 1939

By whom made ROTT. DROOGDOK M.Y. Boiler No. 505-60 When made 1939

Registered Horse Power 3800 Owners NED. IND. TANKSTOOMBOOT M.Y. Port belonging to S-GRAVENHAGE

Horse Power as per Rule 733 Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES

Trade for which Vessel is intended CARR. PETROLEUM IN BULK.

GINES, &c. Description of Engines TRIPLE EXPANSION Revs. per minute 90

No. of Cylinders 500 x 900 x 1550 mm Length of Stroke 1000 mm No. of Cylinders 2 x 3 No. of Cranks 2 x 3

Crank shaft, dia. of journals as per Rule 320 mm Crank pin dia. 320 mm Crank webs Mid. length breadth 830 mm Thickness parallel to axis 170 mm

Intermediate Shafts, diameter as fitted 302 mm Thrust shaft, diameter at collars as fitted 320 mm

Propeller Shafts, diameter as per Rule 330 mm Screw Shaft, diameter as fitted 330 mm Is the screw shaft fitted with a continuous liner YES

Bronze Liners, thickness in way of bushes as per Rule 10 mm Thickness between bushes as fitted 17 mm 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 ONE LENGTH

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

When 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

Length of Bearing in Stern Bush next to and supporting propeller 1355 mm

Propeller, dia. 440 mm Pitch 15.05 No. of Blades 3 Material BRONZE whether Moveable NO Total Developed Surface 50 sq. feet

Large Pumps worked from the Main Engines, No. 2 Diameter 165 mm Stroke 160 mm Can one be overhauled while the other is at work YES

Small Pumps, No. and size ONE 10 x 12 x 12 (DUPLX) Lubricating Oil Pumps, including Spare Pump, No. and size

Are there two independent means arranged for circulating water through the Oil Cooler YES Suctions, connected to both Main Bilge Pumps and Auxiliary

Large Pumps; - In Engine and Boiler Room 3 1/2" ONE IN COFFERDAM FRAME 20 1/2" ONE 6 1/2"

Pump Room No. 1 2 1/2" No. 2 2 1/2" In Holds, &c. 3 1/2" 1 in COFFERDAM & 4" ONE IN FOREHOLD.

PUMPROOM 2" TWO ON FOREPEAK DECK 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size ONE 11" Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size ONE 2 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

What Pipes pass through the bunkers ONE COFFERDAM SUCTION How are they protected STEEL PIPE WITH VALVE ON EACH SIDE CONTROLLED FROM DECK

What pipes pass through the deep tanks 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 NO Is the Shaft Tunnel watertight MACH. AFT. Is it fitted with a watertight door worked from

MAIN BOILERS, &c. - (Letter for record S.W.T.) Total Heating Surface of Boilers 10040 sq. ft

Forced Draft fitted YES No. and Description of Boilers 2 WATERTUBE BABCOCK & WILCOX 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?

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

PLANS. - Are approved plans forwarded herewith for Shafting 15.1.39 Main Boilers 16.11.38 Auxiliary Boilers Donkey Boilers

Superheaters General Pumping Arrangements 30.3.39 Oil fuel Burning Piping Arrangements 13.9.39

SPARE GEAR.

Has the spare gear required by the Rules been supplied YES

State the principal additional spare gear supplied CRANKSHAFT AND AS PER LIST FORWARDED WITH

1st ENTRY REPORT ON T.S.S. SAIDJA ROTTERDAM REPORT 28616

R.P. DE ROTTERDAMSCHER DROOGDOK MIJ.

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

005194-005209-0036

113.

472.

482.

14;

23-26-30/6

15-17-18

Visits 97

During progress of work in shops - Jan. 10-26 Feb. 2-4-14-15-10-25. March. 3-7-10-24-31. April 3-5-14-21-24-28-29. May 1-9-19-20-25-27. June 2-7-16-19-21-27. July 1-3-13-18-24-26-27-28. Aug 1-3-14-25-26-30. Sept 1-5-21. Oct 16-18-20

Dates of Survey while building - Aug 24-25-26. Sept 8-22. Oct 16-21. Nov. 1-5-8.

Total No. of visits 65

Dates of Examination of principal parts - Cylinders 20/24 17/21 19 9/19 1/18 1/18 Slides 15/ 3/ 9/19 1/8 Covers 21/ 21/

Pistons 3-10/ 2/ 9/ Piston Rods 14/ 24/ Connecting rods 27/ 3-10-24 29/ 19/

Crank shaft 26/ 14-12-8/ 10-24/ 5-11-24/ 20-27/ Thrust shaft 24/ 19/ 29/ Intermediate shafts 24/ 19/ 27/ 24/

Tube shaft 24/ 19/ 1-2-7/ 24/ Propeller 30-8-39

Stern tube 16/ 21-29/ 25-26/ Engine and boiler seatings 3-6-8-39 Engines holding down bolts 13-10-39

Completion of fitting sea connections 26-8-39

Completion of pumping arrangements 8-11-39 Boilers fixed 11-10-39 Engines tried under steam 8-11-39

Main boiler safety valves adjusted 1-11-39 Thickness of adjusting washers SB 11.8 mm. PORT 11.8 mm.

Crank shaft material S.M. STEEL. Identification Mark LLOYD'S No 1017-1018 J.S. 7-9-38 Thrust shaft material S.M. STEEL Identification Mark LLOYD'S No 19-19 J.S. 7-9-38

Intermediate shafts, material S.M. STEEL Identification Marks LLOYD'S No 24-24-32 J.S. 7-9-38 Tube shaft, material S.M. STEEL Identification Mark LLOYD'S No 24-24-32 J.S. 7-9-38

Screw shaft, material S.M. STEEL Identification Mark LLOYD'S No 24-24-32 J.S. 7-9-38 Steam Pipes, material STEEL Test pressure 600 lbs. Date of Test 16-10-39

Is an installation fitted for burning oil fuel YES Is the flash point of the oil to be used over 150°F. YES

Have the requirements of the Rules for the use of oil as fuel been complied with YES

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo YES If so, have the requirements of the Rules been complied with YES

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with NO

Is this machinery duplicate of a previous case YES. If so, state name of vessel T.S.S. SAIDJA ROTT REPUBLIC

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery has been made in accordance with the approved plans, Society's Rules and Secretary's Lett. Material tested as required and workmanship good. The whole was found in good working condition during a trial trip, and we are of opinion that this vessel is eligible to be recorded in the Society's Register Book. With*

*** LMC 11-39. C.L. O.G.**

Certificate to be sent to ROTTERDAM SURVEYORS

The amount of Entry Fee ... £ 71.00 When applied for, 16/11/39

Special ... £ 1071.20

Donkey Boiler Fee ... £ 4.00

Travelling Expenses (if any) ... £ 41.00 20/12/39 R.D.Y.

J. J. Ochoa *C.H. Bounce*
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 28 NOV 1939
 + Amb. 11.39
 Assigned Litt. for oil fuel 11.39 J.D. L.
 St. above 150°F



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