

REPORT ON OIL ENGINE MACHINERY.

No. 8113

Survey Report 20th Jan. 19 45 When handed in at Local Office 30th Jan. 19 45 Port of Baltimore, Maryland Received at London Office 27 FEB 1945
Survey held at Baltimore, Md. Date, First Survey 25th Aug. Last Survey 14th Dec. 19 44
Number of Visits 6

Single on the ~~Torino~~ Triple Screw vessel "POZA RICA"
Genoa
made at Torino
Boilers made at Genoa
orse Power 2400
rse Power as per Rule 563.5
which vessel is intended Carrying petroleum in bulk.
By whom built Ansaldo
By whom made Fiat
By whom made Ansaldo
Owners Garibaldi SACN
Yard No. When built 1940
Engine No 2709 When made 1939
Boiler No. When made 1939
Port belonging to -
Is Refrigerating Machinery fitted for cargo purposes No
Is Electric Light fitted Yes

GINES, &c. Type of Engines Heavy Oil
Pressure in cylinders 950 lbs. Diameter of cylinders 23 5/8" Length of stroke 43 5/16" No. of cylinders 6 No. of cranks 6
Rings, adjacent to the Crank, measured from inner edge to inner edge 790 m.m. Is there a bearing between each crank Yes
per minute 125 Flywheel dia. 8' 4 1/4" Weight 6.25 tons Means of ignition compression Kind of fuel used Heavy Oil
ft. dia. of journals as per Rule 395 m.m. as fitted 420 m.m. Crank pin dia. 420 m.m. Crank Webs Mid. length breadth 670 m.m. Thickness parallel to axis 265 m.m.
Shaft, diameter as per Rule 395 m.m. as fitted 420 m.m. Intermediate Shafts, diameter as per Rule 306 m.m. as fitted 324 m.m. Thrust Shaft, diameter at collars as per Rule 269 m.m. as fitted 420 m.m.
Screw Shaft, diameter as per Rule 306 m.m. as fitted 324 m.m. Is the shaft fitted with a continuous liner Yes
Thickness in way of bushes as per Rule 17 m.m. as fitted 19 m.m. Thickness between bushes as per rule 12.7 m.m. as fitted 15.5 m.m. Is the after end of the liner made watertight in the Yes

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner One Piece
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 -
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 1300 m.m.
dia. 4500 m.m. Pitch 3100 m.m. No. of blades 4 Material Bronze whether Moveable Yes Total Developed Surface 66.2 sq. feet
reversing Engines Comp. Air Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication
Thickness of cylinder liners 40 m.m. Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with g material Yes
If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine -
Water Pumps, No. 1 attached & 1 stm. duplex F.W. Jkt. Cooling
SWC 1 attached & 1 stm. duplex Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
arrangements are made for dealing with cooling water if discharged into bilges -

As worked from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -
ected to the Main Bilge Line No. and Size 2 220 galls/min. 1 Ballast 550 galls/min.
How driven Stm. duplex Stm. duplex
Pumps, No. and size 1 - 550 galls/min Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 1 attached rotary and Indpt. 183 galls/min.
endent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
nd size: In Machinery Spaces 5 4 - 50 m.m. 2 - 80 m.m. In Pump Room 2 - 2" 2 - 6"

2 - 2 3/4" in hold, 2 - 2 3/4" Stores over Forepeak tank Fwd. p.p. rm. 2 - 2 3/4
Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 - 110 m.m. 1 - 175 m.m.
Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Yes Are the Bilge Suctions in the Machinery Spaces Yes
accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes
Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Valves
ufficiently high on the ship's side to be seen without lifting the platform plates Yes Are the Overboard Discharges above or below the deep water line above
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
s through the bunkers Bilge suction to cofferdam How are they protected -
s through the deep tanks - Have they been tested as per Rule -

Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
vent 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 another Yes
Is the Shaft Tunnel watertight - Is it fitted with a watertight door None worked from -
l, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork -
Compressors, No. None No. of stages - Diameters - Stroke - Driven by -
Compressors, No. 2 No. of stages 2 Diameters 100 & 245 Stroke 220 m.m. Driven by Stm. Recip. Engine
ry Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
ir Pumps, No. 1 - 2 pistons D A Diameter 975 m.m. Stroke 900 m.m. Driven by Maine Engine
ines crank shafts, diameter as per Rule 117.2 m.m. No. -
as fitted 130 m.m. Position -

EIVERS: Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
l surfaces of the receivers be examined and cleaned Yes Is a drain fitted at the lowest part of each receiver Yes
e Air Receivers, No. None Cubic capacity of each - Internal diameter - thickness -
ded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
Actual -
receivers, No. 3 Total cubic capacity 10500 Litres 470 Internal diameter 43 1/2" thickness 13/16"
ded or riveted longitudinal joint DR dbs Material Steel Range of tensile strength - Working pressure by Rules 422 lbs./sq.in.
Actual 30 Kg/cm²

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

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

No

PLANS. Are approved plans forwarded herewith for Shafting
(If not, state date of approval)

Receivers

No

Separate Tanks

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

Yes

State the principal additional spare gear supplied

3. Main engine cylinder liners

1 piston rod

Copies of the following plans found on board the vessel forwarded herewith:

Main Oil Engine crankshaft, Stern Tube and Screw Shaft, E. R. pumping arrangements, Water Tube

Main and Emergency Switchboards (Schematic), Deck Power Circuits

Deck and Emergency Lighting Circuits, as (schematic). Deck power circuits.

Deck and Emergency lighting circuits.

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building
(During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders

Covers

Pistons

Rods

Connecting rods

Crank shaft

Flywheel shaft

Thrust shaft

Intermediate shafts

Tube shaft

Screw shaft

Propeller

Stern tube

Engine seatings

Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements

Engines tried under working conditions

Crank shaft, Material

Identification Mark

Flywheel shaft, Material

Identification Mark

Thrust shaft, Material

Identification Mark

Intermediate shafts, Material

Identification Marks

Tube shaft, Material

Identification Mark

Screw shaft, Material

Identification Mark

Is the flash point of the oil to be used over 150° F.

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo

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

If so, state name of vessel

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

The machinery of this vessel, so far as now seen, appears to have been built of good

and by good workmanship. The propelling machinery and auxiliaries have been examined under working conditions

found in good and safe working condition and is eligible in my opinion to have record of LMC with date when

survey has been completed.

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(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £\$ 30.00

Special £ 280.00

Donkey Boiler Fee £ 90.00

Travelling Expenses (if any) £ - - -

When applied for,

Jan. 30, 19. 45

When received,

19.

Committee's Minute

NEW YORK FEB 7 1945

Assigned

Class contemplated

Wm. C. Bowin
Engineer Surveyor to Lloyd's Register

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Foundation