

REPORT ON OIL ENGINE MACHINERY.

No. 8113

Report made on 20th Jan. 1945 When handed in at Local Office 30th Jan. 1945 Port of

Received at London Office Baltimore, Maryland

27 FEB 1945

Survey held at Baltimore, Md.

Date, First Survey 25th Aug.

Last Survey 14th Dec. 1944

Number of Visits 6

on the ~~Triple~~ ~~Triple~~ Screw vessel "POZA RICA"

Tons Gross 7599
Net -

By whom built Ansaldo

Yard No. When built 1940

made at Torino By whom made Fiat

Engine No. 2709 When made 1939

Boilers made at Genua By whom made Ansaldo

Boiler No. When made 1939

orse Power 2400 Owners Garibaldi SACN

Port belonging to -

orse Power as per Rule 583.5 Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

which vessel is intended Carrying petroleum in bulk.

GINES, & Co. Type of Engines Heavy Oil

2 ~~or 4 stroke~~ cycle Single ~~or double~~ acting

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

ings, 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. 480 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 289 m.m.

t, diameter as per Rule -

as fitted -

Screw Shaft, diameter as per Rule 306 m.m.

as fitted 324 m.m.

Is the ~~shaft~~ shaft fitted with a continuous liner Yes

ers, 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

oes 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 -

ater Pumps, No. 1 attached & 1 stm. duplex F.W. Jkt. Cooling

SWC

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.

ilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Yes

Are the Bilge Suctions in the Machinery Spaces

y accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

Are they fitted with Valves or Cocks Valves

onnections 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

ted 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

as through the bunkers Bilge suction to cofferdam

How are they protected -

as 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

ent 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 -

mpressors, 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.

as fitted 130 m.m.

No. -

Position -

EVERS: - 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

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 -

receivers, No. 3

Total cubic capacity 10500 Litres 470 cu. ft.

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

005301 - 005306 - 0036

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 **-** 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.

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 condition 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.

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

The amount of Entry Fee ..	£\$ 30.00	When applied for,
Special ...	£ 280.00	Jan. 30, 19 45
Donkey Boiler Fee ...	£ 90.00	When received,
Travelling Expenses (if any) £	-	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