

## REPORT ON OIL ENGINE MACHINERY.

No. 2372

10 APR 1934

Received at London Office

Date of writing Report 6-4-1934 When handed in at Local Office 6-4-1934 Port of LISBON

No. in Survey held at LISBON

Date, First Survey 15.8.33 Last Survey 5.4.1934

Number of Visits

Single  
Triple  
Quadruple  
Screw vessel Fayal.Tons Gross 573  
Net 393

Built at Foxhol

By whom built J. Smit &amp; Zoon

Yard No. When built 1927

Engines made at Augsburg

By whom made M. A. N.

Engine No. 3916 When made 1930

Donkey Boilers made at

By whom made

Boiler No. When made

Brake Horse Power 500

Owners Cia. Acoriana de Nav. Transp. Mar.

Port belonging to Ponta - Fayal

Nom. Horse Power as per Rule 108

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted Yes

Trade for which vessel is intended General

ENGINES, &amp;c.—Type of Engines 4 6 10 50 2 or 4 stroke cycle 4 Single or double acting Single.

m pressure in cylinders 4.5 atm. Diameter of cylinders 345 mm Length of stroke 500 mm No. of cylinders 6 No. of cranks 6

bearings, adjacent to the Crank, measured from inner edge to inner edge 451 Is there a bearing between each crank Yes

ons per minute 300 Flywheel dia. 1350 mm Weight 2550 kg Means of ignition Solid Injection Kind of fuel used Diesel fuel

Shaft, dia. of journals as per Rule 198 as fitted 220 mm Crank pin dia. 220 mm Crank Webs Mid. length breadth 110 mm Mid. length thickness 360 mm Thickness parallel to axis shrunk Thickness around eye-hole

eel Shaft, diameter as per Rule 198 as fitted Intermediate Shafts, diameter as per Rule 125 mm as fitted Thrust Shaft, diameter at collars as per Rule 181 mm as fitted

Shaft, diameter as per Rule 125 mm as fitted Screw Shaft, diameter as per Rule 180 mm as fitted Is the shaft fitted with a continuous liner No

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

r boss 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 bedwell being ordered with new shaft Length of Bearing in Stern Bush next to and supporting propeller

ler, dia. 1800 mm Pitch 1200 mm No. of blades 4 Material Bronze whether Moveable No Total Developed Surface 184 m. sq. feet

d of reversing Engines direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched No Means of lubrication

Thickness of cylinder liners 26.5 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

ducting material wale If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

g Water Pumps, No. one on Main Eng. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Pumps worked from the Main Engines, No. one Diameter 95 mm Stroke 210 mm Can one be overhauled while the other is at work

connected to the Main Bilge Line No. and Size one - 25 mm p. hr. = one, 12 ltrs p. hr. = one - 12 ltrs p. hr. How driven Electric Main Engines. Belt driven.

t Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size 2 - 5.4 m<sup>3</sup> p. hr.

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

No. and size:—In Machinery Spaces 2 - 2 1/4", 2 - 2 1/2" In Pump Room

Is, &amp;c. No. 1 - One 2 1/2", No. 2 - One 2 1/2" There is only one held (See profile)

endent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 - 2 3/4"

the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Yes Are the Bilge Suctions in the Machinery Spaces

n 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 Cocks.

y fixed sufficiently 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

y 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

ipes pass through the bunkers How are they protected

ipes 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

rrangement 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

ment to another Yes Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

od vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Air Compressors, No. No. of stages Diameters Stroke Driven by

ary Air Compressors, No. No. of stages Diameters Stroke Driven by Oil Engine

Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by Main Eng.

aging Air Pumps, No. Diameter Stroke Driven by

ary Engines crank shafts, diameter as per Rule as fitted 1-400 4 1/2 x 5 1/2 Driven by

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

internal surfaces of the receivers be examined and cleaned Yes Is a drain fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual

Starting Air Receivers, No. Total cubic capacity 1100 ltrs each Internal diameter 800 mm thickness 17 mm

Seamless, lap welded or riveted longitudinal joint Riveted Material Prof. steel Range of tensile strength 44/53 Working pressure by Rules Actual

29/9

21

Foundation



IS A DONKEY BOILER FITTED?

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

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

Donkey Boilers

General Pumping Arrangements

Receivers

Separate Tanks

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

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

3/8/33, 6/9, 26/9, 27/9, 28/9, 2/10, 3/10, 6/10, 21/10, 17/11, 18/12, 28/2/34, 2/3, 5/3, 5/4

Dates of Examination of principal parts—Cylinders 6.10.33 Covers 6.10.33 Pistons 6.10.33 Rods 6.9.33 Connecting rods 6.9.33

Crank shaft 6.9.33 Flywheel shaft Thrust shaft 27/9.33 Intermediate shafts Tube shaft

Screw shaft 28.9.33 Propeller 27.9.33 Stern tube 28.9.33 Engine seatings 31.8.33 Engines holding down bolts 31.8.33

Completion of fitting sea connections Completion of pumping arrangements 5.4.34 Engines tried under working conditions 21.10.33

Crank shaft, Material 1.4.34 Identification Mark LLOYDS V.S. 1001 Flywheel shaft, Material Identification Mark

Thrust shaft, Material 1.4.34 Identification Mark LLOYDS Q.Q.3 P.K. 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. Yes

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with Yes, as per approved plan & as per Rules.

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 Yes If so, state name of vessel Capitan Miranda, Romage.

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

Machinery of this vessel has been completely opened up, examined, overhauled & refitted. The vessel was placed in drydock & screw shaft, propeller, stern tube & thrust, sea cocks & outside fastenings examined. The machinery was examined under full working conditions on a trial run & found satisfactory & is eligible in my opinion to be classed + LMC 10.33 subject to the screw shaft being renewed & bederrall oil glands being renewed before the end of August 1934.

|                              |   |   |   |                   |
|------------------------------|---|---|---|-------------------|
| The amount of Entry Fee      | £ | : | : | When applied for, |
| Special                      | £ | : | : | 19.               |
| Donkey Boiler Fee            | £ | : | : | When received,    |
| Travelling Expenses (if any) | £ | : | : | 19.               |

Committee's Minute

Assigned

FRI. 20 APR 1934

+ LMC 10.33 subject  
+ N.E.30

TUE. 16 OCT 1934

TUE. 8 JUL 1934

TUE. 29 MAY 1934

Engineer Surveyor to Lloyd's Register of Shipping.



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