

REPORT ON MACHINERY.

No. 1477

Received at London Office

18 NOV 1924

Date of writing Report 8th Nov. 1924 When handed in at Local Office

19 Port of LISBON.

in Survey held at LISBON.

Date, First Survey 4th June

Last Survey 21st August 1924

Book.

(Number of Visits 27)

731 on the Portuguese St.Sc.St. "LUNA" ex "PUNGUE"

ster Built at Flensburg By whom built Flensburger Schiffsb. Ges.

Engines made at Flensburg By whom made Flensburger Schiffsb. Ges.

Milers made at " By whom made " " "

Registered Horse Power Owners Salmao, Benoliel & Azancot Port belonging to LISBON.

Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes.

GINES, &c.—Description of Engines ordinary type triple-expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 16-4/10"x26-2/10"x43-3/10" stated as per rule 70 Dia. of Screw shaft as fitted 9.06 Material of steel

the screw shaft fitted with a continuous liner the whole length of the stern tube No. Is the after end of the liner made water tight

the propeller boss Yes. If the liner is in more than one length are the joints burned No. If 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 If two

liners are fitted, is the shaft lapped or protected between the liners No. Length of stern bush 41"

Dia. of Tunnel shaft as per rule 8.25" Dia. of Crank shaft journals as per rule 8.75" Dia. of Crank pin 8.75 Size of Crank webs 18"x6" Dia. of thrust shaft under

Milers 8.375" Dia. of screw Pitch of Screw No. of Blades 4 State whether moveable solid Total surface

No. of Feed pumps 2 Diameter of ditto 2-7/16" Stroke 21-1/4" Can one be overhauled while the other is at work Yes.

No. of Bilge pumps 2 Diameter of ditto 2-5/16" Stroke " Can one be overhauled while the other is at work "

No. of Donkey Engines 3 duplex Sizes of Pumps Aux. feed 4x2-5/8"x4" Gen. service 5-1/2"x4"x6" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Joining Eng. Bilge pumps 2 inch Ballast 7 x 8 x 8" In Holds, &c. 2-1/4" main range joining pumps 3-1/2".

Independent Bilge pumps 2 inch

No. of Bilge Injections 1 sizes 4" Connected to circulating pump Yes. Is a separate Donkey Suction fitted in Engine room & size Yes. 3"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None

Are all connections with the sea direct on the skin of the ship Yes. Are they Valves or Cocks Cocks for boiler blowdowns & ashes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Fitted Are the Discharge Pipes above or below the deep water line Above but

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.

That pipes are carried through the bunkers None. How are they protected

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

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes.

Is the Screw Shaft Tunnel watertight Intended to make so. Is it fitted with a watertight door Yes. worked from Cylinder grating.

OILERS, &c.—(Letter for record) Manufacturers of Steel No record

Total Heating Surface of Boilers Is Forced Draft fitted No. No. and Description of Boilers 1 main, 1 donkey, vertical.

Working Pressure 11.6 Kilos Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

each boiler not opened for exam. Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

Long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

Size of compensating ring No. and Description of Furnaces in boiler 3- Fox. Material steel Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type none. Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

W995-0044

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded? Yes.

SPARE GEAR. State the articles 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

Is the approved plan of main boiler forwarded herewith

No. - plan approved 1st Aug 1924 do.

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller
Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Completion of fitting sea connections Stern tube Screw shaft and propeller
Main boiler safety valves adjusted Thickness of adjusting washers
Material of Crank shaft Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.
Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel

No.

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

Have the requirements of Section 49 of the Rules 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.)

Air pump 16-1/4" dia; circulating pump 8-1/32"; worked off air pump levers. No further particulars taken - please see my letter dated 22nd September 1924 - Owners not desirous of continuing surveys. This report sent in view of Secretary's communication of 4th inst.

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

The amount of Entry Fee ... £ : :
Special ... £ Please
Donkey Boiler Fee ... £ see
Travelling Expenses (if any) £ Report 9.
When applied for, 19...
When received, 19...

Committee's Minute

Assigned

Leah Bunn
Engineer Surveyor to Lloyd's Register of Shipping.



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