

Rpt. 4.

REPORT ON MACHINERY

No. 4958
FRI. JUN. 15 1923

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of Haere

No. in Survey held at
Reg. Book.

Date, First Survey 23 november

Last Survey 2 june

1923

(Number of Visits 6)

Master

Built at Caen

By whom built Chantiers Navals Français

Tons } Gross
Net

When built 1922

Engines made at St Denis

By whom made Ateliers et Chantiers de la Loire when made 1922

Boilers made at Marseille

By whom made Chantiers Navals et Chaudronnerie du Midi when made 1922

Registered Horse Power

Owners French Government

Port belonging to Haere

Nom. Horse Power as per Section 28 235.5

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted yes

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders 18 1/8", 29 15/16" & 50 3/8" Length of Stroke 37 13/16" Revs. per minute

Dia. of Screw shaft as per rule... Material of }
as fitted... screw shaft }

Is the screw shaft fitted with a continuous liner the whole length of the stern tube NO. 2 liners Is the after end of the liner made water tight in the propeller boss If the liner is in more than one length are the joints burned 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 Length of stern bush

Dia. of Tunnel shaft as per rule... Dia. of Crank shaft journals as per rule... Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under collars Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Donkey Engines 1 Duplex Sizes of Pumps 160 1/2" x 9 3/8" 2 50 stroke No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Tunnel 90 mm Engine 80 mm In Holds, &c. 4 80 mm - 4 80 mm - 4 3 1/2" & 4 60 mm

No. of Bilge Injections 4 sizes 160 mm Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 180 mm

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 yes

Are all connections with the sea direct on the skin of the ship recess fitted Are they Valves or Cocks Valves

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes 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 are carried through the bunkers Suction bilges and ballast How are they protected wood barge

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 yes Is it fitted with a watertight door yes worked from lower part of engine room

BOILERS, &c.—(Letter for record (S) Manufacturers of Steel

Total Heating Surface of Boilers 4359 Is Forced Draft fitted no No. and Description of Boilers 3 SB

Working Pressure 199 lb. Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler 41 # No. and Description of Safety Valves to

each boiler 2 spring loaded Area of each valve 22 7/4 in. 2 Pressure to which they are adjusted 14 lb 199 lb. Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 1900 mm 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 each boiler 2 cf Material 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 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

006552-006563-0099

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

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 6

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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 steel Identification Mark on Do. Material of Thrust shaft steel Identification Mark on Do.

Material of Tunnel shafts steel Identification Marks on Do. Material of Screw shafts steel Identification Marks on Do.

Material of Steam Pipes steel Test pressure

Is an installation fitted for burning oil fuel 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.)

The safety valves adjusted under steam no accumulation pressure noted
The workmanship is good. The engine and auxiliaries have been tried on sea and the result found satisfactory

This engine, auxiliaries, and boilers are in my opinion in good condition of work and merit in my opinion the consideration of the Committee for to have notation of.

L.M.C. 6.23. inserted in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 6. 23.

The amount of Entry Fee ... £ 211
Special ... £ 1369
Donkey Boiler Fee ... £
Travelling Expenses (if any) £ 413

When applied for,

14 June 1923

When received,

5 June 1923

Committee's Minute

Assigned

FRI. 29 JUN. 1923

+ LMC 6. 23

Engineer Surveyor to Lloyd's Register of Shipping.



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