

Rpt. 4.

REPORT ON MACHINERY.

No. 903.

Received at London Office

Date of writing Report 8-8-1921 When handed in at Local Office

Port of

Cádiz

FRI. AUG. 12 1921

No. in Survey held at

Cádiz.

Date, First Survey

28-2-21

Last Survey

3-8-

1921

Reg. Book.

79244 on the

S.S.

"GASTELU."

(Number of Visits 16)

Gross

Tons

Net

When built

Master J. FUFUENTE.

Built at

Cádiz.

By whom built

Beluarría y Larinaga

Engines made at

Brunock.

By whom made

John S. Kincaid & Co. Ltd.

when made

1921.

Boilers made at

Brunock.

By whom made

John S. Kincaid & Co. Ltd.

when made

1921.

Registered Horse Power

2000.

Owners

Compañia Naviera "BERMEO"

Port belonging to

San Sebastian.

Nom. Horse Power as per Section 28

411

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

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Material of

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

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

Dia. of Crank shaft journals

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

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

4-3 1/2"

In Holds, &c.

Lump Suction F.P. 1-3 1/2", N°1. 1-3 1/2", N°2. 1-3 1/2", 2-2 3/4",

N°3. 1-3 1/2", 2-2 3/4", N°4. 2-3 1/2", 2-2 3/4", N°5. 7-3 1/2", N°6. 1-3 1/2". A.P. 1-3 1/2".

Bilge Suction 9-3 1/2".

No. of Bilge Injections

one

size 8"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size one 3 1/2".

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

Yes

Are they Valves or Cocks

Both

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

Both

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

Hold bilge pipes.

How are they protected

Wood casing

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 E.R. lip seating.

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

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

Area of each valve

Pressure to which they are adjusted 155 lbs.

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2-0"

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

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

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

Lloyd's Register

WS28-0188

Foundation

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded? - 2 - 5

SPARE GEAR. State the articles supplied:—

Spare gear as per Brunswick Report No 17798 placed on board.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - Feb. 28, 1921, March 4, May 21, 23, 30, June 6, 8, 14, 20, 24, 28, July 9, 15, 31, Aug. 5.
During erection on board vessel - - -
Total No. of visits (16)

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 6-6-21 Engine and boiler seatings 21-5-21 Engines holding down bolts 8-6-21

Completion of pumping arrangements 9-7-21 Boilers fixed 30-5-21 Engines tried under steam 31-7-21

Completion of fitting sea connections 28-2-21 Stern tube 28-2-21 Screw shaft and propeller 28-2-21

Main boiler safety valves adjusted 31-7-21 Thickness of adjusting washers Port Boiler 7/32 P. 7/32 S. Star. B. 10/32 P. 5/32

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 Steel Test pressure 540 lbs. per sq. inch.

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 No If so, state name of vessel 23. "CABO ESPARTEL", "CABO VILLANO", 25. "ARICHACHU", "ATALAYA"

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

The machinery and boilers constructed under Special Survey in accordance with Brunswick Report No 17798, having now been efficiently fitted on board this vessel and tried under steam with satisfactory results, is eligible in my opinion to have notation. + L.M.C. 7-21.

Vessel has been placed in dry-dock, bottom cleaned & coated.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 8.21 F.D. C.L

Kell 19/8/21

Hyndell
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 2.000 : : 2-8-1921
Donkey Boiler Fee ... £ 86 : :
Travelling Expenses (if any) £ : : 5-8-1921

Committee's Minute TUE. 23 AUG. 1921
Assigned + L.M.C. 8.21

MACHINERY CERT.

WRITTEN

fresh cert issued 8.10.21



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