

REPORT ON MACHINERY.

Received at London Office

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

Port of Cadiz

FRI. AUG. 12 1921

No. in Survey held at Cadiz

Date, First Survey 28-2-21 Last Survey 5-8-1921

Reg. Book.

(Number of Visits 16)

79244 on the S.S. "GASTELU"

Master J. FUFUENTE Built at Cadiz By whom built Beharrista y Raminga When built

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 Compania 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 screw shaft as fitted ✓

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 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 moceable ✓ 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. Lark suction F.P. 1-3/4", N°1. 1-3/4", N°2. 1-3/4", 2-2 1/4", N°3. 7-3/4", 2-2 1/4", N°4. 2-3/4", 2-2 1/4", N°5. 7-3/4", N°6. 1-3/4". A.P. 1-3/4". Bilge suction 9-3/4".

No. of Bilge Injections one sizes 8" Connected to condenser, or to circulating pump pump. Is a separate Donkey Suction fitted in Engine room & size one 3/4".

Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluces 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 320 LBS. Size of manhole in shell

plate ✓

Size of compensating ring ✓ No. and Description of Furnaces in each boiler 1542. Material Outside diameter

Length of plain part top ✓ Thickness of plates crown ✓ Description of longitudinal joint 1542. No. of strengthening rings

bottom ✓

Working pressure of furnace by the rules ✓ Combustion chamber plates: Material 1542. 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

RETAIN

MARK ON BOILERS.

1547.

LOYDS TEST

320 LBS.

150 LBS. W.P.

11-3-21. J.I.

1542.

LOYDS TEST.

320 LBS.

150 LBS. W.P.

11-3-21. J.I.

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WS28-0188

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded? - 2 - 6

SPARE GEAR. State the articles supplied :-

Spare gear as per Greenock 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; During erection on board vessel -- March 4; May 21, 23, 30; June 6, 8, 14, 20, 24, 28; July 9, 15, 31; Aug 5. Total No. of visits (16)

Is the approved plan of main boiler forwarded herewith? Yes. " " " donkey " " " No.

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, Starb. B. 10/32 P, 5/32 S.

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 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. Yes.

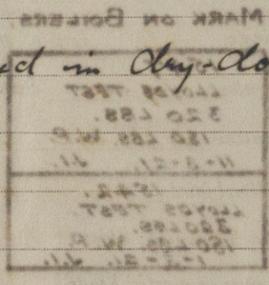
Have the requirements of Section 49 of the Rules been complied with? Yes.

Is this machinery duplicate of a previous case? No. If so, state name of vessel: SS. "CABO ESPARTEL", "CABO VILLANO", "SS. "ARICHACHU", "ATALAYA".

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

The machinery and boilers constructed under Special Survey in accordance with Greenock 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. CL

Handwritten signature and date: Bell 19/8/21

Handwritten signature: H. Russell, Engineer Surveyor to Lloyd's Register of Shipping.

Table with 4 columns: Fee type, Amount (£), When applied for, When received. Rows include Entry Fee, Special (£2000), Donkey Boiler Fee (£86), and Travelling Expenses.

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

Assigned: MACHINERY CERT. WRITTEN. fresh cert issued 8.10.21



Vertical text on the left margin: Write "Bridle Sheer Strake" and "Upper Deck Sheer Strake" opposite the corresponding letter.

Vertical text on the left margin: Certificate (if required) to be sent to Surveyors

Vertical text on the right margin: Rp, date, No., Reg., Ma, Eng, B, Reg, Non, EN, Dia, Is, in, betw, line, Dia, coll, No., No., No., In, No., Ar, Ar, Ar, Ar, Ar, Ar, BO, To, W, Ca, ea, Sm, Th, lon, P, Six, Le, W, P, M, M, Ar, Th, Di, P, th, W, Di, P, SU, D, D