

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 30 May 1934 When handed in at Local Office 6 June 1934 Port of Bilbao
 No. in Survey held at Vigo and Santander Date, First Survey 3 Nov. 1932 Last Survey 29 May 1934
 Reg. Book. 22915 on the ship "CAMPRODON" (Number of Visits 40)
 Built at Santander By whom built Mena Corcho Hijos S.A. Yard No. 34 Tons Gross 1934
 Engines made at Vigo By whom made Hijos de J. Barneros S.A. Engine No. 115/116 when made 1933
 Boilers made at Santander By whom made Corcho Hijos S.A. Boiler No. when made 1933
 Registered Horse Power Owners Cia. Arrendataria del Monopolio de Petrolen. S.A. Port belonging to Barcelona
 Nom. Horse Power as per Rule 80-24 94 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Compound
 Dia. of Cylinders 13 1/2", 27" Length of Stroke 18" Revs. per minute 120 No. of Cylinders 2x2 No. of Cranks 2x2
 Dia. of Crank shaft journals as per rule 5.5" as fitted 5 9/16" Dia. of Crank pin 5 9/16" Crank webs Mid. length breadth 10 3/4" Thinned parallel to axis 3 3/4" Thinned around eye-hole 2 1/32"
 Diameter of Thrust shaft under collars as per rule 6.5" as fitted 5 9/16" Diameter of Tunnel shaft as per rule 5.24" as fitted 5 1/2" Diameter of Screw shaft as per rule 6 1/4" as fitted 6 1/2" Is the Screw shaft fitted with a continuous liner the whole length of the stern tube Yes (see below) Is the after end of the liner made watertight in the propeller boss Yes
 If the liner is in more than one length are the joints burned Lines fitted in way of stern tube and If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive Coated with
 If two liners are fitted, is the shaft lapped or protected between the liners. Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated Lignum vitae bushes Length of Stern Bush 24" Diameter of Propeller 7'-6"
 Pitch of Propeller 7'-3" No. of Blades 4 State whether Moveable M Total Surface 25 square feet.
 No. of Feed Pumps fitted to the Main Engines None Diameter of ditto Stroke Can one be overhauled while the other is at work
 No. of Bilge Pumps fitted to the Main Engines None Diameter of ditto Stroke Can one be overhauled while the other is at work
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 duplex 6"x4"x6" also Steam injector; 1 duplex 6"x5"x6"
 No. and size of Pumps connected to the Main Bilge Line 1 Bilge 6"x5"x6", 1 Ballast 12"x12"x12"
 and size of Ballast Pumps 1 duplex 12"x12"x12" No. and size of Lubricating Oil Pumps, including Spare Pump
 two independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary Pumps;—In Engine and Boiler Room 5 @ 70 lb dia. and in Holds, &c. 4 @ 70 lb dia. 70 lb suction to hand pump in fore hold.
 and size of Main Water Circulating Pump Bilge Suctions 1 @ 150 lb dia. No. and size of Donkey Pump Direct Suctions
 Engine Room Bilges 1 @ 70 lb dia. Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes
 the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes
 all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Yes
 they rise 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
 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
 Pipes are carried through the bunkers None How are they protected
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 arrangement 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 compartment to another Yes Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

IN BOILERS, &c.—(Letter for record S)

Total Heating Surface of Boilers 1700 sq. ft.
 Forced Draft fitted Yes No. and Description of Boilers 2 Vert. multitub. dry back. Working Pressure 125 lb
 A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 A DONKEY BOILER FITTED? No If so, is a report now forwarded?
 A.N.S. Are approved plans forwarded herewith for Shafting 18/5/32 Main Boilers 22/10/32 Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Oil Pumping Arrangements 10/3/33 Oil fuel Burning Piping Arrangements

ARE GEAR. State the articles supplied:— 2 top & 2 bottom end bolts, nuts, 2 main bearing bolts, set
 flying bolts, set feed & large pump valves. Quantity assorted bolts & nuts & iron
 various sizes. 1 propeller shaft, 2 cast iron propellers. Set spare brasses,
 eccentric strap complete, set piston springs, HP & LP valve spindles, set check
 bars, set cylinder studs & bolts, 24 liner tubes, 50 condenser tubes, 3 A.F. liners
 12 nipples.

The foregoing is a correct description,

Manufacturer.

1932: Mar. 3, 4, 17, 18; 1933: Feb. 1, 2; Apr. 4, 10, 11, 13, 21; May 3, 4, 12
 During progress of work in shops -- June 2, 6, 7; Feb. 11, 12, 28, 29, 31; Aug. 4, 5; Oct. 19; Nov. 7.
 1933: Nov. 15, 16; Dec. 21; 1934: Jan. 19; Feb. 8; Mar. 23; Apr. 4, 19;
 During erection on board vessel -- May 16, 17, 23, 24, 28, 29.
 Total No. of visits 40

Dates of Examination of principal parts - Cylinders 7/6/33, 11/7/33 Slides 11/7/33
 Covers 11/7/33 Pistons 11/7/33 Rods 11/7/33
 Connecting rods 11/7/33 Crank shaft 22/12/32, 27/12/32 Thrust shaft 18/3/33
 INT. Tunnel shafts 4/6/33, 11/6/33 Screw shaft 19/10/33, 7/11/33 Propeller 19/4/34
 Stern tube 15/11/33 Engine and boiler seatings 4/8/33 Engines holding down bolts 21/12/33
 Completion of pumping arrangements 29/5/34 Boilers fixed 19/1/34 Engines tried under steam 23/5/34
 Completion of fitting sea connections 15/11/33 Stern tube 15/11/33 Screw shaft and propeller 19/4/34
 Main boiler safety valves adjusted 16/5/34 Thickness of adjusting washers P 41, 343; S 35.4, 39.7
 Material of Crank shaft S.M. Steel Identification Mark on Do. S. " 186-22-12-32 QD
 Material of Thrust shaft " " Identification Mark on Do. S. " 187-27-12-32 QD
 Material of INT. Tunnel shafts " " Identification Marks on Do. S. " 245-18-3-33 QD
 Material of Screw shafts " " Identification Marks on Do. S. " 247-18-3-33 QD
 Material of Steam Pipes S.D. Steel Test pressure 375 lb Date of Test 4/4/34
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes
 Have the requirements of the Rules for carrying and burning oil fuel been complied with Yes
 Is this machinery duplicate of a previous case No If so, state name of vessel

General Remarks

(State quality of workmanship, opinions as to class, &c.) The Machinery of this vessel has been constructed under survey in accordance with approved plans, Secretary's letters and Rules. The workmanship is good and the machinery has been satisfactorily fitted on board and tested under full working conditions and is eligible in my opinion to be classed with the notation * L.M.C. S, 34. "Fitted for O.F. S, 34. F.P. above 150°F."

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 680 : : 19
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) ... £ 200 : : Mar 21-1934.

Committee's Minute

FRI 6 JUL 1934

FRI 17 AUG 1934

Assigned

+ Lumb 5.34
 Fitted for oil fuel 5.34. F.P. above 150°F.
 J.D. C.L.

CERTIFICATE WRITTEN

J. D. Kendall
 Engineer-Surveyor to Lloyd's Register of Shipping.



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