

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Date of writing Report Jan 3 1927 When handed in at Local Office Jan 10 1927 Port of Trieste Received at London Office 18 JAN 1927
 No. in Survey held at Venice (Mestre) Date, First Survey 30 Dec 1925 Last Survey 20 Dec 1926
 Reg. Book. 80181 on the S. P. Pleias (Number of Visits 16)

Built at Venice (Mestre) By whom built Soc. Ital. E. Breda Yard No. 20 Tons { Gross 416 Net 194
 Engines made at Altona-Ottensen By whom made Ottensener Eisenwerk A.G. Engine No. 1271 When built 1926
 Boilers made at Milano By whom made Soc. Ital. E. Breda Boiler No. C/20 when made 1926
 Registered Horse Power _____ Owners Soc. Ital. E. Breda Port belonging to Venice
 Nom. Horse Power as per Rule 162 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

See also Hamburg Report N. 16684
 ENGINES, &c.—Description of Engines One Triple expansion
 Dia. of Cylinders 15 x 25 1/2 x 41 1/2 Length of Stroke 23 5/8 Revs. per minute 175 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 7.65" as fitted 7.87" Dia. of Crank pin 8.26" Crank webs Mid. length breadth 13.58" Thickness parallel to axis 4.72"
 as fitted 7.87" Mid. length thickness 4.72" shrunk Thickness around eye-hole 3.74"
 Diameter of Thrust shaft under collars as per rule 7.65" as fitted 7.87" Diameter of Tunnel shaft as per rule 7.29" as fitted 7.48" Diameter of Screw shaft as per rule 8.31" as fitted 8.46" 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 watertight in the propeller boss yes
 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 _____ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated yes, oil gland Leroval Length of Stern Bush 35" Diameter of Propeller 102.36"
 Pitch of Propeller 140.24" No. of Blades 4 State whether Moveable no Total Surface 25.73 square feet.
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 2.56" Stroke 11.81" Can one be overhauled while the other is at work yes
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 2.56" Stroke 11.81" Can one be overhauled while the other is at work yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps Three 6" x 4" x 6", 6" x 4" x 6" 9" x 7 1/2" x 9 7/8"
 No. and size of Pumps connected to the Main Bilge Line Three 6" x 4" x 6" 6" x 4" x 6" 9" x 7 1/2" x 9 7/8"
 No. and size of Ballast Pumps one 9" x 7 1/2" x 9 7/8" No. and size of Lubricating Oil Pumps, including Spare Pump _____
 Are two independent means arranged for circulating water through the Oil Cooler _____ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room two a 2" one direct a 2 3/4" and in Holds, &c. one in each hold a 2 1/4"
one in tunnel a 2"

No. and size of Main Water Circulating Pump Bilge Suctions 5" one No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges one 2 3/4"
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes
 Are 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
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves and cocks
 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 _____
 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 Forward Hold and P.P. tanks 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
 Is the 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 _____ Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2690 sq ft
 Is Forced Draft fitted yes No. and Description of Boilers Two Cyl. Marine Working Pressure 200 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? _____

PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers H.6.25 Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval)
 General Pumping Arrangements yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—
One pair of bottom end brasses complete with bolts & nuts. Two pairs of cross head brasses complete with bolts & nuts. Two main bearing bolts. One set of coupling bolts. One set of feed and bilge pump valves. One set of Piston spring for each piston. One propeller. One set of pump links complete. Two sets of safety valves springs. One pin for escape valve and spring. 24 condenser tubes. 24 Boiler tubes. Assorted quantity of bolts and nuts. Iron of various sizes.

The foregoing is a correct description

Manufacturer.



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See Hamburg Report No 16684

During progress of work in shops - - }
 Dates of Survey while building } 1925 Dec 30, 1926 Feb 4, 18, May 21, June 17, 19, 21, 30, Aug 18, Sep 9, 9, 21,
 During erection on board vessel - - } 22, Oct 30, Nov 15, Dec 16, 20,
 Total No. of visits } *Seventeen*

See also Hamburg Report No 16684

Dates of Examination of principal parts - Cylinders 17.6.26 Slides 17.6.26
 Covers 17.6.26 Pistons 17.6.26 Rods 17.6.26
 Connecting rods 17.6.26 Crank shaft 19.6.26 Thrust shaft 19.6.26
 Tunnel shafts 30.6.26 Screw shaft 30.10.26 Propeller 30.10.26
 Stern tube 30.10.26 Engine and boiler seatings 30.12.25 Engines holding down bolts 30.6.26
 Completion of pumping arrangements 22.9.26 Boilers fixed 22.9.26 Engines tried under steam 16.12.26
 Completion of fitting sea connections 30.10.26 Stern tube 30.10.26 Screw shaft and propeller 30.10.26
 Main boiler safety valves adjusted 15.11.26 Thickness of adjusting washers P ³¹ ₃₀ S ³⁰ ₂₇
 Material of Crank shaft *S M S* Identification Mark on Do. *LLOYD'S 1524 EF 11.7.25 217, 218, 219 M.*
 Material of Thrust shaft *S M S* Identification Mark on Do. *LLOYD'S 6154 MB 24.8.25 119 MEX*
 Material of Tunnel shafts *S M S* Identification Marks on Do. *LLOYD'S 5245 MK 1.10.25, 6151-6152 MB 24.8.25*
 Material of Screw shafts *S M S* Identification Marks on Do. *LLOYD'S 6155 MB 24.8.25*
 Material of Steam Pipes *Steel* Test pressure *600 lbs* Date of Test *21.9.26*
 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 the Rules for carrying and burning oil fuel been complied with *✓*
 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.)

This engine has been made in Altona - Offensen under special survey and fitted on board by the Cantieri Riuniti at Mestre. The whole installation was made in accordance with the approved plans, Secretary letters and Society's Rules and in my opinion is eligible to be recorded in the Society's Register Book + LMC 12.26

It is submitted that this vessel is eligible for THE RECORD. + LMC 12.26. FD. OG.

JWD
21/1/27
W. J. J. J.
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee *Hog. of* : 324.4
 Special *Hog. of* : 1750-
 Donkey Boiler Fee *M. J. C.* : 875-
 Travelling Expenses (if any) *Hog. of* : 173.-
M. J. C. : 2150-
 When applied for, 15.1.27
 When received, 21/3/27

Committee's Minute

Assigned

L. J. J. J. 12.26
F. S. O. G.

Printed office

Certificate to be sent to

The Surveys are requested not to write on or below the space for Committee's Minutes.

CERTIFICATE WRITTEN



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