

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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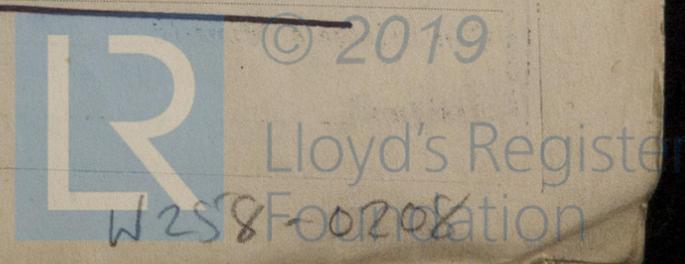
of writing Report 7.7.25 When handed in at Local Office 8/7/25 Port of Trinite
 in Survey held at Trinite Date, First Survey May 8 Last Survey June 27 1925
 Book 86 on the S/S. IZ RADA, ex "POLDENNIS" ex IZ RADA (Number of Visits 11)
 at SUNDERLAND By whom built W. DOXFORD & SONS LTD. Yard No. ✓ Tons { Gross 3525.66
 Net 2209.46
 When built 1910
 Engines made at SUNDERLAND By whom made W. DOXFORD & SONS LTD. Engine No. ✓ when made 1910
 Boilers made at SUNDERLAND By whom made W. DOXFORD & SONS LTD. Boiler No. ✓ when made 1910
 Rated Horse Power ✓ Owners ATLANSKA PLOVIDBA IVO PACIC Port belonging to DOBROVNIK.
 Horse Power as per Rule 300. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES.

ENGINES, &c.—Description of Engines: Triple expansion engine
 No. of Cylinders 36 Length of Stroke 42" Revs. per minute 66 No. of Cylinders 3 No. of Cranks 3
 Crank shaft journals 17.35 as per rule 16.5" as fitted 12.5" Dia. of Crank pin 12.75" Crank webs Mid. length breadth 17.75" Thickness parallel to axis 8.25" shrunk Thickness around eye-hole 5.5"
 Diameter of Thrust shaft under collars 12.5" as per rule 11.75" as fitted 12.5" Diameter of Tunnel shaft 12.4" as fitted 12.4" Diameter of Screw shaft 13.93" as fitted 13.93" Is the Screw shaft with a continuous liner the whole length of the stern tube yes Is the after end of the liner made watertight in the propeller boss yes
 If the liner does not fit tightly at the part the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive one length
 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 running efficiently lubricated —
 Length of Stern Bush 68" Diameter of Propeller 16'-1"
 Propeller 16'-4" No. of Blades 4 State whether Moveable No Total Surface 88.7 square feet.
 Feed Pumps fitted to the Main Engines 2 Diameter of ditto 4" Stroke 28" Can one be overhauled while the other is at work No
 Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 4" Stroke 28" Can one be overhauled while the other is at work No
 Number and size of power driven Feed and Bilge Auxiliary Pumps 3-ONE 9' x 9' x 9 1/2" ONE 6' x 5' x 6" ONE 4 9/16' x 3' x 3 1/2"
 Size of Pumps connected to the Main Bilge Line ONE 9' x 9' x 9 1/2"
 Size of Ballast Pumps ONE 9' x 9' x 9 1/2" No. and size of Lubricating Oil Pumps, including Spare Pump —
 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 Two, 3" Bilge suction ✓ and in Holds, &c. No. 2 Bilge suction 2 1/2" in hold No. 1- No. 2, 2 bilge suction diam. 3", hold No. 3-2 bilge suction diam. 2 1/2", hold No. 4- and 1 suction diam. 3". Tunnel space and bilge suction diam. 3". Fore & after peak each one 2 1/2" diam.
 Size of Main Water Circulating Pump Bilge Suctions ONE suction diam. 7" No. and size of Donkey Pump Direct Suctions ONE DIAM. 4 1/2"
 Engine Room Bilges ONE DIAM. 4 1/2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes
 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
 Connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves
 Size 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
 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 —
 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 yes Is it fitted with a watertight door yes worked from Eng. Room

BOILERS, &c.—(Letter for record 5.) Total Heating Surface of Boilers 2877.7 of each Boiler 160 lbs. Working Pressure 160 lbs.
 Draft fitted No No. and Description of Boilers Two cylindrical
 REPORT ON MAIN BOILERS NOW FORWARDED? yes
 DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes
 Are approved plans forwarded herewith for Shafting ✓ Main Boilers yes Auxiliary Boilers — Donkey Boilers yes
 Pumping Arrangements yes Oil fuel Burning Piping Arrangements —

GEAR. State the articles supplied:—
As per rules requirements complete and good. One spare tailshaft and propeller.

The foregoing is a correct description,
 ✓
 Manufacturer.



During progress of work in shops - - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts - Cylinders 8/5/1925 Slides 8/5/1925
 Covers 8/5/1925 Pistons 8/5/1925 Rods 8/5/1925
 Connecting rods 8/5/1925 Crank shaft 8/5/1925 Thrust shaft 8/5/1925
 Tunnel shafts 8/5/1925 Screw shaft 22/6/1925 Propeller 22/6/1925
 Stern tube 22/6/25 Engine and boiler seatings Engines holding down bolts 8/5/1925
 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 27/6/1925 Thickness of adjusting washers ✓
 Material of Crank shaft Steel Identification Mark on Do. DARLINGTON-FORGED & CO. B.C. 781 N^o 781 3.10.09
 Material of Thrust shaft - - - Identification Mark on Do. " " B.C. 781 4.4.10 J.M.
 Material of Tunnel shafts - - - Identification Marks on Do. " " B.C. 781 4.4.10 J.M.
 Material of Screw shafts - - - Identification Marks on Do. " " B.C. 781 4.4.10 J.M.
 Material of Steam Pipes Copper Test pressure 340 lbs. Date of Test ✓
 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 the Rules for carrying and burning oil fuel been complied with ✓
 Is this machinery duplicate of a previous case YES If so, state name of vessel S/S. ISTINA

General Remarks (State quality of workmanship, opinions as to class, &c. The quality of the material and workmanship is good, all part of machinery examined and repaired as recommended. The vessel's machinery is eligible in my opinion to be classed in Reg. Book with notation of L.M.C. 6.25. -

PARTICULARS OF AUXILIARY MACHINERY.

Ballast pump = 9" x 9" x 9 1/2" N^o 1268-1909 GATESHEAD, suction from sea, tanks, & bilges delivery: over board canoverrier
 I. Warkington = 4 9/16" x 3" x 3 1/2" Suction sea, hotwell, fresh water tanks, delivery Main bilge & Donkey bilge
 II. Warkington = 6" x 5" x 6" Birmingham 1909. Suction pipe from bilge, sea, tanks, hotwells, and fresh water tanks, delivery Bailer, donkey bilges, over board, and deck.
 Evaporators = TYPE Marisan Woodward N^o 2321-7.3.1910.
 Water capacity 18 tons in 24 hours
 Elec. Light Dynamoes = W. HALLEN & Co. London N^o 189 engine one cylinder N^o 2776. 390 rev. per min. 60 Ampere 110 Volt
 Dinomus tested 25% over load with satisfactory results please see Electric Report.

Certificate to be sent to Post Office

The amount of Entry Fee ... £ 780 - : When applied for, 8/7/1925
 Special ... See Repair Report
 Donkey Boiler Fee ... £ : : When received, 25
 Travelling Expenses (if any) £ : :
 Committee's Minute
 Assigned

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping

PN: 81 JUL 1925