

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 28 APR 1928

Date of writing Report 19 27 APR 1928 When handed in at Local Office 27 APR 1928 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey 11 Oct 27 Last Survey 20th Apr 1928
 Reg. Book. 40054 on the SS "BACTRIA" (Number of Visits 40)
 Built at Sunderland By whom built Jos L. Thompson & Sons, Ltd. Yard No. 561 Tons Gross 2402
Net 1209
 Engines made at Sunderland By whom made J. Dickinson & Sons, Ltd. Engine No. 892 When built 1928
 Boilers made at -do- By whom made -do- Boiler No. 892 when made 1928
 Registered Horse Power - Owners America-levant line Ltd. Port belonging to London
 Nom. Horse Power as per Rule 403 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended General cargo

ENGINES, &c.—Description of Engines Triple Expansion - Single Screw Revs. per minute 46
 Dia. of Cylinders 24" - 40" - 66" Length of Stroke 45" No. of Cylinders Three No. of Cranks Three
 Crank shaft, dia. of journals as per Rule 12.568 Crank pin dia. 12 3/4" Crank webs Mid. length breadth 2 1/4" Thickness parallel to axis 8"
as fitted 12 3/4" Mid. length thickness 8" shrunk Thickness around eye-hole 5 3/8"
 Intermediate Shafts, diameter as per Rule 11.94" Thrust shaft, diameter at collars as per Rule 12.568
as fitted 12 1/8" as fitted 12 3/4"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 13.34" Is the shaft fitted with a continuous liner Yes
as fitted as fitted 13 1/2" Is the screw
 Bronze Liners, thickness in way of bushes as per Rule .404" Thickness between bushes as per Rule .53" Is the after end of the liner made watertight in the
as fitted 3/4" as fitted 2 1/32" propeller boss Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes
 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 Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yes
 Propeller, dia. 16-6" Pitch 15-9" No. of Blades Four Material Bronze whether Moveable No Total Developed Surface 82 sq. feet
 Feed Pumps worked from the Main Engines, No. None Diameter 4" Stroke 2 1/2" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. Two Diameter 4" Stroke 2 1/2" Can one be overhauled while the other is at work Yes
 Feed Pumps No. and size Two - Weirs 7" x 9 1/2" x 2" Pumps connected to the No. and size One - Ballast 8" x 10" x 10"
How driven One - Muff Ford 4 1/2" x 5" x 4" Main Bilge Line How driven One - Fine Pump 4 1/2" x 5" x 4"
 Ballast Pumps, No. and size One - 8" x 10" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size -
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 4 at 2 1/2" dia & 1 at 3" dia
 In Holds, &c. Fore Hold 2 at 2 1/2" dia Main Hold 2 at 3" dia Aft Hold 2 at 3" dia
Tunnel Well 1 at 2 1/2" dia

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 at 8" dia Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1 at 4 1/2" dia 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 Sea Connections fitted direct on the skin of the ship Yes Are they fitted with 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 Overboard Discharges above or below the deep water line Above
 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 pass through the bunkers None How are they protected -
 What pipes pass through the deep tanks None Have they been tested as per Rule -
 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 Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 5944 sq ft
 Is Forced Draft fitted Yes No. and Description of Boilers 2-Single Ended Marine Type Working Pressure 180 lbs sq"
IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes
PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers - Donkey Boilers Yes
 (If not state date of approval)
 Superheaters - General Pumping Arrangements Yes (with Ship Rpt) Oil fuel Burning Piping Arrangements -

SPARE GEAR. State the articles supplied:— 1 C.I. Propeller, 1 set of coupling bolts & nuts, 2 Main Bearing bolts & nuts, 2 Top End bolts & nuts, 2 Bottom End bolts & nuts, 1 Set Feed Pump Valves, 1 Set Bilge Pump Valves, 50 Assorted bolts & nuts, 3 Bars of Assorted Iron, 30 Condenser Tubes, 6 Plain Boiler Tubes, 1 w.t. Steel Plate, 1 Safety Valve Spring, 3 Patent Tube Stoppers, 3 Common Tube Stoppers, 1 Bottom End bearing, 6 Junk Ring Bolts & Nuts.

The foregoing is a correct description, For John Dickinson & Sons, Limited.

J. Dickinson Manufacturer. Director.



© 2020
 Lloyd's Register
 Foundation
 003333-003340-0082

NOTE.—The words which do not apply should be deleted.

Dates of Survey while building:

 During progress of work in shops - - 1927. Oct. 11, 28. Nov. 22, 23, 28. Jan. 9, 10, 11. Feb. 1, 2, 3, 14, 24, 28, 29. Mar. 1, 2, 6, 8, 10, 12, 13, 14, 16.

 During erection on board vessel - - - 19. 21, 22, 23, 26, 27, 28, 29, 30. Apr. 2, 3, 4, 5, 13, 17, 19, 20.

 Total No. of visits 40

Dates of Examination of principal parts—Cylinders 27-3-28 Slides 19-3-28 Covers 27-3-28

 Pistons 8-3-28 Piston Rods 1-2-28 Connecting rods 9-1-28

 Crank shaft 1-3-28 Thrust shaft 23-3-28 Intermediate shafts 22-3-28

 Tube shaft ✓ Screw shaft 22-3-28 Propeller 26-3-28

 Stern tube 23-3-28 Engine and boiler seatings 16-3-28 Engines holding down bolts 3-4-28

 Completion of fitting sea connections 6-3-28

 Completion of pumping arrangements 20-4-28 Boilers fixed 30-3-28 Engines tried under steam 5-4-28

 Main boiler safety valves adjusted 5-4-28 Thickness of adjusting washers P.F. 3/8" ; P.A. 3/8" ; S.F. 3/8" ; S.A. 3/8" ; Dky. F.d.A. 3/8"

 Crank shaft material Ingot Steel Identification Mark A.T.G. 1-3-28. Thrust shaft material Ingot Steel. Identification Mark A.T.G. 23-3-28.

 Intermediate shafts, material Ingot Steel Identification Marks A.T.G. 22-3-28. Tube shaft, material ✓ Identification Mark ✓

 Screw shaft, material Ingot Steel Identification Mark 22-3-28. Steam Pipes, material Drawn Steel. Test pressure 540 lbs. Date of Test 2-4-28.

 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 Yes. If so, state name of vessel S.S. "BOSNIA" (Std. Rpt No. 29682)

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

 The materials and workmanship are good.

 The Machinery has been constructed under Special Survey, and satisfactorily fitted in the vessel, and is eligible in my opinion for classification and the notation

 ✠ L.M.C. 4, 28.

It is submitted that this vessel is eligible for THE RECORD. + LMC 4.28 CL. F.D.

J. Griffith
 15728

A. T. Griffith
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 5 : : When applied for,

 Special ... £ 85 : 9 : 23 April 1928

 Donkey Boiler Fee ... £ 7 : 2 : : When received,

 Travelling Expenses (if any) £ : : : 8-5-28

Committee's Minute FRI 4 MAY 1928

Assigned + LMC 4:28
 CERTIFICATE WRITTEN CL F.D.



BUNDESLAND
 Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.