

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 31 JAN 1930 When handed in at Local Office 31 JAN 1930 Port of London  
 No. in Survey held at Newbury Date, First Survey 14 November 1929 Last Survey 13 January 1930  
 Reg. Book. SP "BOMBO" (Number of Visits 5)  
 on the Leith Built at Leith By whom built Henry Robb Ltd Yard No. 154 Tons } Gross  
 Engines made at Newbury By whom made Jessie Plenty & Son Ltd Engine No. 2635 When built 1930 Net  
 Boilers made at Newcastle By whom made Jessie Palmers SB & Co Boiler No. 1127 when made 1930  
 Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_  
 Nom. Horse Power as per Rule 100 Is Refrigerating Machinery fitted for cargo purposes \_\_\_\_\_ Is Electric Light fitted \_\_\_\_\_  
 Trade for which Vessel is intended \_\_\_\_\_

ENGINES, &c.—Description of Engines Triple expansion, Surface Condensing Revs. per minute 125  
 Dia. of Cylinders 14 1/2 x 25 x 40 Length of Stroke 27 No. of Cylinders 3 No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 7.59 Crank pin dia. 7.78 Crank webs Mid. length breadth 1-5 1/2 Thickness parallel to axis 4 13/16  
 as fitted 7.78 Mid. length thickness 4 13/16 shrunk Thickness around eye-hole 4 13/16  
 Intermediate Shafts, diameter as per Rule 7.23 Thrust shaft, diameter at collars as per Rule 7.59  
 as fitted 7 1/4 as fitted 7.78  
 Tube Shafts, diameter as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Screw Shaft, diameter as per Rule 8.49  
 as fitted \_\_\_\_\_ as fitted 8 9/16 Is the { screw } shaft fitted with a continuous liner { No }  
 Bronze Liners, thickness in way of bushes as per Rule .55 Thickness between bushes as per Rule \_\_\_\_\_  
 as fitted 9/16 as fitted \_\_\_\_\_ 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 junctions made by fusion through the whole thickness of the liner \_\_\_\_\_  
 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 Oil Gland or other appliance fitted at the after  
 end of the tube shaft No Length of Bearing in Stern Bush next to and supporting propeller 36  
 Propeller, dia. 10'-6" Pitch 10'-6" No. of Blades 4 Material C.I. whether Moveable No Total Developed Surface 38 sq. feet  
 Feed Pumps worked from the Main Engines, No. Two Diameter 2 3/4 Stroke 13 1/2 Can one be overhauled while the other is at work Yes  
 Bilge Pumps worked from the Main Engines, No. Two Diameter 2 3/4 Stroke 13 1/2 Can one be overhauled while the other is at work Yes  
 Feed Pumps { No. and size One 5 1/4 x 3 1/2 x 5 Pumps connected to the { No. and size One 8 x 8 x 8  
 How driven Steam Main Bilge Line How driven Steam  
 Ballast Pumps, No. and size Same as Bilge Pump Lubricating Oil Pumps, including Spare Pump, No. and size \_\_\_\_\_  
 Are two independent means arranged for circulating water through the Oil Cooler \_\_\_\_\_  
 Bilge Pumps;—In Engine and Boiler Room One-2 1/4" Eng. Room Two-2" Stokehold Suctions, connected to both Main Bilge Pumps and Auxiliary  
 in Holds, &c. Two-2" No 1 Hold Two-2" No 2 Hold  
One-2" Eng. Room direct to After Main Bilge Pump.  
 Main Water Circulating Pump Direct Bilge Suctions, No. and size One-4" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size One-2 3/4" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes \_\_\_\_\_  
 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 \_\_\_\_\_  
 Are all Sea Connections fitted direct on the skin of the ship \_\_\_\_\_ Are they fitted with Valves or Cocks \_\_\_\_\_  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates \_\_\_\_\_ Are the Overboard Discharges above or below the deep water line \_\_\_\_\_  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel \_\_\_\_\_ Are the Blow Off Cocks fitted with a spigot and brass covering plate \_\_\_\_\_  
 What Pipes pass through the bunkers \_\_\_\_\_ How are they protected \_\_\_\_\_  
 What pipes pass through the deep tanks \_\_\_\_\_ 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 \_\_\_\_\_  
 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 \_\_\_\_\_ Is the Shaft Tunnel watertight \_\_\_\_\_ Is it fitted with a watertight door \_\_\_\_\_ worked from \_\_\_\_\_

MAIN BOILERS, &c.—(Letter for record \_\_\_\_\_) Total Heating Surface of Boilers 2176 #  
 Forced Draft fitted No No. and Description of Boilers \_\_\_\_\_ Working Pressure 180 lbs/sq"  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? \_\_\_\_\_  
 IS A DONKEY BOILER FITTED? \_\_\_\_\_ If so, is a report now forwarded? \_\_\_\_\_

PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers \_\_\_\_\_ Auxiliary Boilers \_\_\_\_\_ Donkey Boilers \_\_\_\_\_  
 Superheaters \_\_\_\_\_ General Pumping Arrangements \_\_\_\_\_ Oil fuel Burning Piping Arrangements \_\_\_\_\_

SPARE GEAR. State the articles supplied:— A. Condenser Tubes. 2 Top End Bolts & Nuts. 2 Bottom end Bolts & Nuts. 2 Main Bearing Bolts & Nuts. 6 Coupling Bolts & Nuts. 6 Junk Ring Studs. 1 Set of Air Circulating Feed & Bilge pump valves. A quantity of assorted bolts & nuts & iron of various sizes. 1 Screw Shaft.

The foregoing is a correct description,

FOR AND ON BEHALF OF  
**PLENTY & SON, LIMITED.**  
 Secretary  
 Manufacturer.

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 Foundation

Nov. 14. 26 Dec. 13. Jan. 6. 13.

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

Dates of Examination of principal parts - Cylinders Nov. 14. 26. Dec. 13. Slides Nov. 14. 26. Dec. 13. Covers Nov. 14. 26. Dec. 13.
Pistons Nov. 26. Jan. 6. Piston Rods Nov. 26. Connecting rods Nov. 26
Crank shaft Nov. 26. Thrust shaft Nov. 14. 26. Intermediate shafts
Tube shaft Screw shaft Nov. 14. 26. Propeller
Stern tube Nov. 26. Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections
Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers
Crank shaft material Ingot Steel Identification Mark J.H. 484-29 Thrust shaft material Ingot Steel Identification Mark RWE 8-10-29
Intermediate shafts, material Ingot Steel Identification Marks SPARE SCREW Identification Mark J.A. 14-1-30

Screw shaft, material Ingot Steel Identification Mark RWE 30-9-29 Steam Pipes, material Test pressure 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 No If so, state name of vessel

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

This machinery, which has been constructed under survey to approved plans & Rule requirements, has been despatched to Leith for completion & installation on board. The workmanship and materials, so far as can be seen, are good and, in my opinion, the machinery will be eligible for the record of + L.M.C. (with date) when it has been completed, fitted on board and tried under working conditions to the satisfaction of one of the Society's Surveyors.

The amount of Entry Fee 3 : 0 : 0
Special 25 : 0 : 0
Donkey Boiler Fee 16 : 16 : 0
Travelling Expenses (if any) 4 : 19 : 6

When applied for, 31 JAN 1930
When received, 24 3 19 30

Signature of Arthur A. Palmers, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 28 FEB. 1930
Assigned See Lett J.E. 17761

