

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 9 APL 1925

Date of writing Report 9 APL 1925 When handed in at Local Office 8th April 1925 Port of London
 No. in Survey held at Newbury Date, First Survey 28th NOVEMBER 1924 Last Survey 8th April 1925
 Reg. Book. on the Ferry Steamer "LURGURENA" (Number of Visits 8)
 Built at Saltney By whom built J. Crichton & Co. Ltd Yard No. 398 Tons } Gross }
 Engines made at Newbury By whom made Plenty & Son Ltd Engine No. 2519 When built 1925 Net }
 Boilers made at Stockton By whom made Riley & Sons Boiler No. 5582/3 when made 2
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Rule 148 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Vertical Triple - Propeller at each end ofessel
 Dia. of Cylinders 16 1/2 - 26 - 43 Length of Stroke 24 Revs. per minute _____ No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 6.79 as fitted 8.19 Dia. of Crank pin 9 Crank webs Mid. length breadth 1.7 shrunk Thickness parallel to axis 1.2
 Mid. length thickness 1.2 Thickness around eye-hole 4
 Diameter of Thrust shaft under collars as per rule 6.79 as fitted 8 Diameter of Tunnel shaft as per rule 6.47 as fitted 8 Diameter of Screw shaft as per rule 4.136 as fitted 8.3 Is the Screw shaft fitted 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 is in more than one length are the joints burned 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated No Length of Stern Bush 3'-2" Diameter of Propellers 8ft
 Pitch of Propeller 10ft No. of Blades 4 Cast Steel State whether Moveable No Total Surface 2739 ft each square feet,
 No. of Feed Pumps fitted to the Main Engines 1 Diameter of ditto 3 1/2" Stroke 12" Can one be overhauled while the other is at work Yes
 No. of Bilge Pumps fitted to the Main Engines 1 Diameter of ditto 3 1/2" Stroke 12" Can one be overhauled while the other is at work Yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps Weir Single with float tank 8 1/2 x 6 x 18"
 No. and size of Pumps connected to the Main Bilge Line 3" dia Ejector Duplex 7 1/2 x 4 1/2 x 6" fed + bilge
 No. and size of Ballast Pumps _____ No. and size of Lubricating Oil Pumps, including Spare Pump _____
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room _____ and in Holds, &c. _____

No. and size of Main Water Circulating Pump Bilge Suctions _____ No. and size of Donkey Pump Direct Suctions _____
 to the Engine Room Bilges _____ 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 connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ 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 _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 What Pipes are carried through the bunkers _____ How are they protected _____
 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 Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers 2960 Sqft
 Is Forced Draft fitted No No. and Description of Boilers 2 Riley loco type 2B. Working Pressure 180lb
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? No middle bro Parsons (attached)
 IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? _____
 PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval) General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—
Propeller & Shaft, 6 coupling bolts, 2 bolts & nuts for main bearings, 4 top & bottom end
 Piston rings, pump valves, Air pump bucket & rod, Condenser tubes & sundries
 for the "Bon Accord" 9" Centrifugal Circulating pump:— Impeller & shaft, piston rod & valve spindle

The foregoing is a correct description
 PLENTY & SON, LIMITED.

J. David
 SECRETARY.

Manufacturer.



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 Foundation

1924 Nov 28 DEC 8 23
 During progress of work in shops -- 1925 JAN 15 FEB 17 MAR 5 25 APR 8
 Dates of Survey while building
 During erection on board vessel ---
 Total No. of visits 8 (IN SHOPS)

Dates of Examination of principal parts - Cylinders 17. 2. 25 Slides 8. 4. 25
 Covers 25. 3. 25 Pistons 8. 4. 25 Rods 25. 3. 25
 Connecting rods 25. 3. 25 Crank shaft 31. 1. 25 Sheffield Thrust shaft 17. 2. 25
 Tunnel shafts 25. 3. 25 Screw shaft 17. 2. 25 Propeller 17. 2. 25
 Stern tube 17. 2. 25 Engine and boiler seatings ✓ Engines holding down bolts ✓
 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 ✓ Thickness of adjusting washers ✓
 Material of Crank shaft Sweet Steel Identification Mark on Do. 616 TH 31. 1. 25
 Material of Thrust shaft do Identification Mark on Do. 1057 + 1057A EJS 17. 2. 25
 Material of Tunnel shafts do Identification Marks on Do. 1056. A. B. C. D. E. ATT + S 25. 3. 25
 Material of Screw shafts do Identification Marks on Do. 17. 2. 25 1055 - 1055A. 1055B S 17. 2. 25
 Material of Steam Pipes ✓ 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.)

These engines have been constructed under special survey in accordance with rule requirements. The materials & workmanship are good.
 The engines have been forwarded to the shipyard at Sattney (Lis District) where they will be installed.
 In my opinion the vessel will be eligible for record of LMC (with do) when the survey has been completed.

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

$\frac{1}{5} = £8$ chargeable by Liverpool surveyors
 The amount of Entry Fee ... £ 3 : - : When applied for,
 2/5 Special ... £ 37 : - : 9 APR 1925
 Donkey Boiler Fee ... £ 40 : - :
 Travelling Expenses (if any) £ 7. 14. 6 : : When received,
 £ 23. 14. 6 : : 19 25

E. J. Stoddart.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned See Liv: rpt No. 88601.

