

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 8 JUL 1937

date of writing Report 25 June 1937 When handed in at Local Office - 8 JUL 1937 Port of London
 No. in Survey held at Bedford. Date, First Survey 21 Oct 36 Last Survey 21 June 1937
 Reg. Book. on the new steel S/S "IRON CHIEFTAIN" (Number of Visits 15) Gross 4812
 Tons Net 2737
 Built at Glasgow By whom built Lithgow Sta. Yard No. 903 When built
 Engines made at Bedford By whom made W.H. Allen & Co. Engine No. R/163654 When made 1937
 Boilers made at By whom made Boiler No. When made
 Registered Horse Power Owners Port belonging to
 Nom. Horse Power as per Rule 21 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted yes
 Trade for which Vessel is intended 50 K.W.

ENGINES, &c.—Description of Engines Compound Steam Reciprocating Revs. per minute 550
 Dia. of Cylinders 6 1/2" x 10 1/2" Length of Stroke 5" No. of Cylinders 2 No. of Cranks 2
 Crank shaft, dia. of journals as per Rule Crank pin dia. 3 1/4" Crank webs 4 1/4" Mid. length breadth 2" Thickness parallel to axis shrunk
 as fitted 3 1/4" Mid. length thickness 2" Thickness around eye-hole as per Rule
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as fitted
 as fitted as fitted Is the { tube } shaft fitted with a continuous liner { as fitted
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as fitted as fitted as fitted
 as fitted as fitted Is the after end of the liner made watertight in the
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted
 as fitted as fitted If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 propeller boss as fitted 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 as fitted Is an approved Oil Gland or other appliance fitted at the after end of the tube
 shaft as fitted Length of Bearing in Stern Bush next to and supporting propeller
 If so, state type as fitted Total Developed Surface as fitted sq. feet
 Propeller, dia. as fitted Pitch as fitted No. of Blades as fitted Material as fitted whether Moveable as fitted
 Feed Pumps worked from the Main Engines, No. as fitted Diameter as fitted Stroke as fitted Can one be overhauled while the other is at work as fitted
 Bilge Pumps worked from the Main Engines, No. as fitted Diameter as fitted Stroke as fitted Can one be overhauled while the other is at work as fitted
 Feed Pumps { No. and size as fitted Pumps connected to the { No. and size as fitted
 { How driven as fitted Main Bilge Line { How driven as fitted
 Ballast Pumps, No. and size as fitted Lubricating Oil Pumps, including Spare Pump, No. and size as fitted
 Are two independent means arranged for circulating water through the Oil Cooler as fitted Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room as fitted In Holds, &c. as fitted
 In Pump Room as fitted

Main Water Circulating Pump Direct Bilge Suctions, No. and size as fitted Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size as fitted Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes as fitted
 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 as fitted Are they fitted with Valves or Cocks as fitted
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates as fitted 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 as fitted Are the Blow Off Cocks fitted with a spigot and brass covering plate
 What Pipes pass through the bunkers as fitted How are they protected as fitted
 What pipes pass through the deep tanks as fitted Have they been tested as per Rule as fitted
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times as fitted
 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 as fitted Is the Shaft Tunnel watertight as fitted Is it fitted with a watertight door as fitted worked from as fitted

MAIN BOILERS, &c.—(Letter for record as fitted) Total Heating Surface of Boilers as fitted
 Is Forced Draft fitted as fitted No. and Description of Boilers as fitted Working Pressure as fitted
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? as fitted
 IS A DONKEY BOILER FITTED? as fitted If so, is a report now forwarded? as fitted
 Is the donkey boiler intended to be used for domestic purposes only as fitted
 PLANS. Are approved plans forwarded herewith for Shafting as fitted Main Boilers as fitted Auxiliary Boilers as fitted Donkey Boilers as fitted
 (If not state date of approval) Oil fuel Burning Piping Arrangements as fitted
 Superheaters as fitted General Pumping Arrangements as fitted

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes
 State the principal additional spare gear supplied 1 set of top & bottom end brasses; 1 H.P. &
 L.P. piston rings; 2 sets of metallic packing for rods.

The foregoing is a correct description.

H. Please. for W.H. Allen 6/7/37.

Manufacturer.



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IX 18-0042

1936 Oct. 21. Nov 4. 6. Dec 29. 30. 1937 Jan 6. Feb 19. 25
 During progress of work in shops - - - March 5. 11. April 12. ^{MAY 25} June 18. 21. 22.
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits 15 (In shops)

Dates of Examination of principal parts—Cylinders 29. 12. 36 Slides 29. 12. 36 Covers 6. 1. 37
 Pistons 16. 3. 37 Piston Rods 16. 3. 37 Connecting rods 12. 4. 37
 Crank shaft 5. 3. 37 Thrust shaft ✓ Intermediate shafts -
 Tube shaft - Screw shaft - Propeller -
 Stern tube ✓ 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 *Steel* Identification Mark *40705 MAB 32.1.37* Thrust shaft material - Identification Mark -
 Intermediate shafts, material - Identification Marks - Tube shaft, material - Identification Mark -
 Screw shaft, material - Identification Mark - 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 the use of oil as fuel been complied with -
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo - If so, have the requirements of the Rules been complied with -
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with -
 Is this machinery duplicate of a previous case - If so, state name of vessel -
 General Remarks (State quality of workmanship, opinions as to class, &c.)

This generating engine has been constructed under Special Survey in accordance with the requirements of the Rules. The materials have been made at Works approved by the Committee. The workmanship is good & on completion the engine was tested under full & overload condition with satisfactory results.

The engine has been forwarded to Glasgow for fitting on board.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 5-5-0 - 8 JUL 1937
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ / 4. 6 7/9/ 1937 don.
 Advice

Committee's Minute GLASGOW 28 DEC 1937

Assigned SEE ACCOMPANYING MACHINERY REPORT.

St. H. Gamble
 Engineer Surveyor to Lloyd's Register of Shipping.



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