

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 15 MAY 1925

Date of writing Report 9 May 1925 When handed in at Local Office 13 May 1925 Port of NEWCASTLE ON TYNE
 No. in Survey held at Reg. Book. Date, First Survey 30 Dec/24 Last Survey 7 May 1925
 on the Steel twin screw steamer. SAMBUR Tons ^{Gross} 750 _{Net} 300
 Built at Walker By whom built Swan, Hunter & Wigham Richardson Ltd No. 1206 When built 1925
 Engines made at Walker By whom made S. H. W. R. Engine No. 1206 when made 1925
 Boilers made at Walker By whom made S. H. W. R. Boiler No. 1206 when made 1925
 Registered Horse Power 226 total Owners Great Western Railway Port belonging to London
 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Inverted Vertical Triple Expansion Revs. per minute
 Dia. of Cylinders 14 1/2, 23, 38 Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 7.62" Crank pin dia. 8" 1" hole Crank webs Mid. length breadth 15 1/2" Thickness parallel to axis 5"
 as fitted. 8" 1" hole Mid. length thickness 5" Thickness around eye-hole 3 1/2"
 Intermediate Shafts, diameter as per Rule 7.24" Thrust shaft, diameter at collars as per Rule 7.62"
 as fitted. 7 1/2" as fitted. 8"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 8.4" Is the tube shaft fitted with a continuous liner no liner
 as fitted as fitted 9" as fitted
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the
 as fitted as fitted propeller boss 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 Cedex gland fitted Length of Bearing in Stern Bush next to and supporting propeller 3'-9"
 Propellers, dia. 9'-8" Pitch 11'-0" No. of Blades 4 Material whether Moveable not Total Developed Surface 32 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 6" Stroke 18" Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. none Diameter Stroke Can one be overhauled while the other is at work
 Feed Pumps { No. and size 2. 4x8x18, 6x6x6, Pumps connected to the { No. and size 2. 4x8x18, 6x6x6,
 How driven 1. 6x6x6 Steam driven. Main Bilge Line How driven Steam
 Ballast Pumps, No. and size 1. 7x8x18 Lubricating Oil Pumps, including Spare Pump, No. and size
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 1. 2 1/2" diam. 3. 2 1/2" diam.
 In Holds, &c. 4. 2 1/2" diam & 2. 2" diam oil well.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 2. 4" diam Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1. 3" diam 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
 What Pipes are carried 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 deck

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 3464 sq ft
 Is Forced Draft fitted yes No. and Description of Boilers 2. Scotch. S. E. Working Pressure 185 lbs/sq in
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes with 1204 report
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded?
 PLANS. Are approved plans forwarded herewith for Shafting no Main Boilers yes Auxiliary Boilers none Donkey Boilers none
 Superheaters General Pumping Arrangements yes with 9s 1204 Oil fuel Burning Piping Arrangements yes. 1204 9s

SPARE GEAR. State the articles supplied:—
 2 Top end bolts ✓ 1 bucket rod, 1/2 set valves, 1 headvalve seat & guard for air pump.
 2 Bottom end bolts ✓ 1 escape valve spring for each size.
 2 Main Bearing Bolts ✓ 50 Tubes & 100 sets of packing for main condensers.
 1 Set coupling bolts ✓ 1 Tail & 1 crank shaft. 1 Stem tube bush (lined)
 1 Set of Feed & Bilge Valves ✓ 1 fair Con. Rod brasses. 1 fair cross head brasses.
 100 Assorted bolts & nuts, etc. ✓ 1 set link brasses. 1 eccentric strap. 1 H.P. & 1 L.P. Spindle.
 1/2 Brass & 50 Iron assorted bolts & nuts fitted. ✓ 1 set check valves. 6 cyl. cover bolts. 6 junk ring bolts.
 1 Piston rod, 1 pump rod, 1 set piston & bucket rings ✓ 4 Valve chest bolts. 24 Boiler tubes
 1 set valves for each size plunger pumps. ✓ 1 R.H. & 1 L.H. propellers (M. B.).
 1 circulating pump impeller & spindle. ✓

The foregoing is a correct description,
 SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

G. J. Swaney
 DIRECTOR Manufacturer.



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 Lloyd's Register
 Foundation

Rpt. 5a.
 Date of writing
 No. in Survey Reg. Book.
 Master
 Engines made
 Boilers made
 Nominal Horse
 MULTITU
 Manufacturer
 Total Heating
 No. and Desc
 Tested by hyd
 Area of Fire
 Area of each
 In case of don
 Smallest disto
 Smallest disto
 Largest inter
 Thickness
 long. seams
 Percentage of
 Percentage of
 Thickness of
 Material
 Length of pl
 Dimensions of
 End plates i
 How are stay
 Tube plates
 Mean pitch
 Girders to c
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 in each 2.
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 Thickness
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1924 1925
 Dec. 30. Jan. 15. 16. 19. 22. 29. 30. Feb. 9. 10. 11. 18. 20. 27. Mar. 5. 9. 10. 11. 13. 17. 19. 23. 24. 25. 27. 31. Apr. 1.
 2. 6. 9. 15. 16. 20. 22. 24. 27. 29. May 4. 7.
 Dates of Survey while building
 During progress of work in shops -
 During erection on board vessel -
 Total No. of visits 38.

Cylinders tested HP-250 MP 130 - LP 80 19.1.25
 Dates of Examination of principal parts - Cylinders 9.3.25. 10.8.25 Slides 15.1.25 Covers 15.1.25
 Pistons 19.12.24 Piston Rods 10.2.25 Connecting rods 10.2.25
 Crank shaft 10.3.25 Thrust shaft 25.3.25 Intermediate shafts 25.3.25
 Tube shaft ✓ Screw shaft 23.3.25 + 6.4.25 Propeller 19.3.25 + 9.4.25
 Stern tube 6.4.25 Engine and boiler seatings 9.4.25 Engines holding down bolts 16.4.25
 Completion of pumping arrangements 7.5.25 Boilers fixed 22.4.25 Engines tried under steam 7.5.25
 Main boiler safety valves adjusted 7.5.25 Thickness of adjusting washers P 3/8" 5/16" S. 5/16" 3/8"
 Crank shaft material O.H. Steel Identification Mark LLOYDS L.G.S Thrust shaft material O.H. Steel Identification Mark 1039/1039A
 Intermediate shafts, material O.H. Steel Identification Mark P. 1032. 1040. 1039. Thrust shaft, material L.C.S. 25.3.25 Identification Mark LLOYDS ATT
 Screw shaft, material O.H. Steel Identification Mark 1041. ATT 1040C. 1040A. 1039. Test pressure 555 lbs Date of Test 24.4.25
 Is an installation fitted for burning oil fuel YES Is the flash point of the oil to be used over 150°F. YES
 Have the requirements of the Rules for carrying and burning oil fuel been complied with YES
 Is this machinery duplicate of a previous case 1204 If so, state name of vessel S/J ROE BUCK. 1204.

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

The machinery built under special survey the material and workmanship found good and efficient
 The machinery satisfactorily fitted up on board the vessel, tested under working conditions, and found satisfactory. (Vessel at moorings)
 The Auxiliary machinery tested under working conditions and found efficient -
 The vessel subsequently proceeded on sea trials with satisfactory results -
 In our opinion this vessel is now eligible for the notation +LMC. 5-25 (in Red) to be made in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. +LMC. 5. 25. FD. OG. Fitted for oil fuel 5.25. F.P. above 150°F.

L. G. Shallcross & Co. Engineer Surveyor to Lloyd's Register of Shipping.
 18/5/25

The amount of Entry Fee ... £ 4 : 0 :
 Special ... £ 56 : 10 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 14 MAY 1925
 When received, 18/5/25

Committee's Minute TUES. 19 MAY 1925
 Assigned + L.M.C. 5.25
 L.D. O.G.
 Listed for oil fuel 5.25
 F.P. above 150°F.

