

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

23 MAY 1954

Surveying Report 3rd May 1954 When handed in at Local Office 3rd May 1954 Port of Southampton
 Survey held at Bover Date, First Survey 5th Oct. 53 Last Survey 9th April 1954
 (Number of Visits 13)
 on the Twin Screw Survey Vessel "PATHFINDER" Tons { Gross 543.85
 Net 197.68
 By whom built J. Samuel White & Co. Ltd. Yard No. 1975 When built 1954
 By whom made Plehner & Sons Ltd. Engine No. 2895 When made 1953
 By whom made J. Riley & Sons Ltd. Boiler No. 7347 When made 1953
 Owners Government of Nigeria Port belonging to Lagos
 red Horse Power 700 = 14HP
 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 or which vessel is intended Nigeria coastal & river survey.

ES, &c.—Description of Engines Twin triple inverted surface condensing
 Cylinders Length of Stroke No. of Cylinders No. of Cranks
 as per Rule
 Crank pin dia. No. 128989 Mid. length breadth
 as fitted Crank webs Thickness parallel to axis
 Thrust shaft, diameter at collars
 as fitted
 Is the { tube } shaft fitted with a continuous liner { No ✓
 { screw }
 Is the after end of the liner made watertight in the
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of 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. ✓
 Is an approved Oil Gland or other appliance fitted at the after end of the tube
 Length of Bearing in Stern Bush next to and supporting propeller 2'-2"
 If so, state type Newark No. 1
 No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface 16.5 sq. feet
 Diameter Stroke Can one be overhauled while the other is at work
 Diameter Stroke Can one be overhauled while the other is at work
 No. and size 2 @ 5" x 12" Pumps connected to the { No. and size Two Duplex 4" x 5" (20 tons/hr) ✓
 Main Bilge Line { How driven Steam - direct acting
 Lubricating Oil Pumps, including Spare Pump, No. and size
 independent means arranged for circulating water through the Oil Cooler ✓
 Suctions, connected both to Main Bilge Pumps and Auxiliary
 In Engine and Boiler Room 2" from B.R. ✓ 2" from E.R. aft P.S. ✓ 2 1/2" from Low ✓
 In Holds, &c. Forward: 2" from hold P.S. ✓ 2" from pipe trunk ✓ 2"
 2" from F.P. ✓ 2" from shaft tunnel ✓ 2" from low deck aft. ✓
 Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,
 size 1/2" - 5" ✓
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes. Yes ✓
 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 ✓
 Sea Connections fitted direct on the skin of the ship. Yes ✓ Are they fitted with Valves or Cocks. Both ✓
 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 ✓
 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 ✓
 How are they protected
 Have they been tested as per Rule. ✓
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times. Yes ✓
 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
 ment to another. Yes ✓ Is the Shaft Tunnel watertight. Yes ✓ Is it fitted with a watertight door. Yes ✓ worked from. upper deck

BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 1987 sq. ft. ✓
 Boilers are fitted with Forced Draft. Yes ✓ Which Boilers are fitted with Superheaters.
 Description of Boilers One S.E. multitubular Can ✓ Working Pressure 200 lbs/12 ✓
 REPORT ON MAIN BOILERS NOW FORWARDED? Yes. Middlesbrough Report No. 20013
 DONKEY BOILER FITTED? No If so, is a report now forwarded?

Are approved plans forwarded herewith for Shafting 18.9.52 Main Boilers 30.8.52 Auxiliary Boilers Donkey Boilers
 (If not state date of approval)

General Pumping Arrangements 8.10.52 Oil fuel Burning Piping Arrangements 18.8.52

SPARE GEAR.

The spare gear required by the Rules been supplied. Yes
 the principal additional spare gear supplied. Main engine: 6 sets piston rod metallic packing. 6 sets valve
 2 propellers
 12 plain tubes 12 tube stoppers 3 oil fuel sprayers complete 2 s.v. springs.

The foregoing is a correct description.
 FOR J. SAMUEL WHITE & COMPANY LTD.

H. Shaw.
 ENGINEERING MANAGER.

Manufacturer.

010289-010293-0187

© 2021

Lloyd's Register
Foundation

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
Pistons
Crank shaft
Tube shaft
Stern tube
Piston Rods
Thrust shaft
Screw shaft
Engine and boiler seatings
Slides
Connecting rods
Intermediate shafts
Propeller
Engines holding down bolts

Completion of fitting sea connections
Completion of pumping arrangements
Main boiler safety valves adjusted
Boilers fixed
Engines tried under steam
Thickness of adjusting washers

Crank shaft material
Intermediate shafts, material
Screw shaft, material
Identification Mark
Identification Marks
Identification Mark

Thrust shaft material
Tube shaft, material
Steam Pipes, material
Identification Mark
Identification Marks
Identification Mark

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 machinery has been seen

fitted on board and tried under full working conditions with satisfactory results.

The installation has been carried out in accordance with the Rules, approved plans and the Secretary's letters.

The machinery is eligible, in my opinion, to have the records

+ LMC 4, 54 and TSOG; and notation "Fitted for oil fuel 4, 54"

Flash point above 150° F.