

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 8-5-1943 When handed in at Local Office 8-5-1943 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at NEWCASTLE-ON-TYNE Date, First Survey 10-6-1942 Last Survey 15-2-1943
 Reg. Book NEWCASTLE-ON-TYNE (Number of Visits 43)
 on the H.M.S. "PRINCE SALVOR" (TWIN SCREW SALVAGE VESSEL. J. 2516) Tons {Gross _____ Net _____}
 Built at GOOLE By whom built GOOLE SHIPBUILDING & REPAIRING CO. Yard No. 390 When built 1943
 Engines made at HEBBURN-ON-TYNE By whom made WHITE'S MARINE ENG. CO. Engine Nos. 888 When made 1943
 Boilers made at SUNDERLAND By whom made N.E. MARINE ENG. CO. Boiler Nos. 4043 When made 1943
 Registered Horse Power _____ Owners ADMIRALTY Port belonging to _____
 Nom. Horse Power as per Rule 127 EACH ENGINE x 2 = 254 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which vessel is intended GOVERNMENT SERVICE

ENGINES, &c.—Description of Engines TRIPLE EXPANSION STEAM RECIPROCATING Revs. per minute 140
 Dia. of Cylinders 14" - 23 1/2" - 38 1/2" Length of Stroke 24" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals 7.37" as per Rule 7 1/2" as fitted 7 1/2" Crank pin dia. 7 1/2" Crank webs Mid. length breadth 12" Thickness parallel to axis 4 3/4"
 Mid. length thickness 4 3/4" shrunk Thickness around eye-hole 3 7/16" {PINS & JOURNALS}
 Intermediate Shafts, diameter as per Rule 7.02" as fitted 7 1/8" Thrust shaft, diameter at collars as per Rule 7.37" as fitted 7 1/2"
 Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 8.1" as fitted 8 7/16" Is the tube shaft fitted with a continuous liner {No} screw
 Bronze Liners, thickness in way of bushes as per Rule .542 as fitted 9/16" Thickness between bushes as per Rule _____ 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 YES Is an approved Oil Gland or other appliance fitted at the after end of the tube at No If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 2'-11 3/8"
 Propeller, dia. 9'-0" Pitch 10'-0" No. of Blades 3 Material MANG BRONZE whether Moveable No Total Developed Surface 22.5 sq. feet
 Feed Pumps worked from the Main Engines, No. NONE Diameter _____ Stroke _____ Can one be overhauled while the other is at work
 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 _____ How driven _____} Pumps connected to the Main Bilge Line {No. and size _____ How driven _____}
 Ballast Pumps, No. and size _____ 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 _____ In Pump Room _____ In Holds, &c. _____

MAIN ENGINES ONLY.

Main Water Circulating Pump Direct Bilge Suctions, No. and size _____ Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size _____
 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 _____

MAIN BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers EACH 2023 SQUARE FEET x 2 = 4046
 Which Boilers are fitted with Forced Draft ALL Which Boilers are fitted with Superheaters NONE
 No. and Description of Boilers 2 - SCOTCH TYPE Working Pressure 200 LBS. PER SQUARE INCH.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? NO
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
 Can the donkey boiler be used for domestic purposes only
 PLANS. Are approved plans forwarded herewith for Shafting No 29-1-42 Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval) _____
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied YES
 State the principal additional spare gear supplied AS PER ADMIRALTY REQUIREMENTS.

PP. WHITE'S MARINE ENGINEERING CO., LTD.

The foregoing is a correct description.

J. GENERAL MANAGER

Manufacturer.



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1942.
 During progress of work in shops - - JUNE 10, 15, 17, 25. JULY 1, 7, 10, 15, 17, 20, 22, 29. AUG. 13, 19, 20, 27. SEPT. 2, 9, 11, 14, 16, 23, 25, 29.
 During erection on board vessel - - - - - OCT. 2, 8, 15, 20, 29. NOV. 2, 10, 18, 26. DEC. 2, 7, 17, 21, 29. 1943. JAN. 8, 12. FEB. 5, 12, 15
 Total No. of visits

Dates of Examination of principal parts - Cylinders 25-6-42 ETZ.
 Pistons 11/7/42 ETZ. Piston Rods 23-8-42 ETZ. Slides 13-7-42 ETZ. Covers 25-6-42 ETZ.
 Crank shafts 26-11-42 ETZ. Thrust shafts 26-11-42 ETZ. Connecting rods 23-8-42 ETZ.
 Tube shaft ✓ Screw shafts 12-1-43 ETZ. Intermediate shafts 12-1-43 ETZ.
 Stern tube 23-8-42 ETZ. Engine and boiler seatings ✓ Propellers 12-1-43 ETZ.
 Completion of fitting sea connections ✓ Engines holding down bolts ✓
 Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓
 Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓
 Crank shaft material S.M. INGOT STEEL. Identification Marks 6924, 6927, 7252, 7253, 7254, 7258, 7259, 7260, 7261, 7262, 7263, 7264, 7265, 7266, 7267, 7268, 7269, 7270, 7271, 7272, 7273, 7274, 7275, 7276, 7277, 7278, 7279, 7280, 7281, 7282, 7283, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7292, 7293, 7294, 7295, 7296, 7297, 7298, 7299, 7300.
 Intermediate shafts, material S.M. STEEL. Identification Marks 7252, 7253, 7254, 7258, 7259, 7260, 7261, 7262, 7263, 7264, 7265, 7266, 7267, 7268, 7269, 7270, 7271, 7272, 7273, 7274, 7275, 7276, 7277, 7278, 7279, 7280, 7281, 7282, 7283, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7292, 7293, 7294, 7295, 7296, 7297, 7298, 7299, 7300.
 Screw shafts material S.M. STEEL. Identification Marks 7256, 7257, 7258, 7259, 7260, 7261, 7262, 7263, 7264, 7265, 7266, 7267, 7268, 7269, 7270, 7271, 7272, 7273, 7274, 7275, 7276, 7277, 7278, 7279, 7280, 7281, 7282, 7283, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7292, 7293, 7294, 7295, 7296, 7297, 7298, 7299, 7300.
 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. No. If so, state name of vessel. ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
 This Machinery has been constructed under Special Survey in accordance with Approved Plans Specification and the Society's Rules. Materials and Workmanship are good.
 The Machinery has now been despatched to Goolie.
 Forging Reports attached

The above main engines installed on H.M. Salvage Vessel PRINCE SALVOR at Goolie. please see separate Rpt. A.

L. Shields.

John E. Martin
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ : :
 7s Special Fee ... £ 25 : 4 : 0 } When applied for, 17 MAY 1943
 Donkey Boiler Fee ... £ : : : }
 Travelling Expenses (if any) £ : : : } When received, 19

Committee's Minute WED. 20 OCT 1943

Assigned See for machinery rpt.

NEWCASTLE-ON-TYNE

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

