

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 101239 (Number of Visits 43)
 on the H.M.S. "PRINCE SALVOR" (TWIN SCREW SALVAGE VESSEL J. 2516) Tons {Gross 1943
 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 $\times 2 = 254$ 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" - 23½" - 38½" Length of Stroke 24" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 7.37" Crank pin dia. 7½" Crank webs Mid. length breadth 12" Thickness parallel to axis 4¾"
as fitted 7½" Mid. length thickness 4¾" shrunk Thickness around eye-hole 3 7/16"
 Intermediate Shafts, diameter as per Rule 7.02" Thrust shaft, diameter at collars as per Rule 7.37"
as fitted 7½" as fitted 7½"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 8.1" Is the tube shaft fitted with a continuous liner No
as fitted as fitted 8 7/16" screw
 Bronze Liners, thickness in way of bushes as per Rule .542 Thickness between bushes as per Rule Is the after end of the liner made watertight in the
as fitted 9/16" as fitted 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 Pumps connected to the No. and size
How driven Main Bilge Line 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 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 ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record ✓) Total Heating Surface of Boilers 2023 SQUARE FEET $\times 2 = 4046$
 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 24-1-42 Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Superheaters ✓ General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓

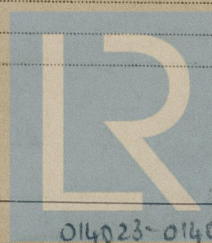
SPARE GEAR.

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.

JT. GENERAL MANAGER

Manufacturer.



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Lloyd's Register
Foundation

014023-014031-0146

Dates of Survey while building		During progress of work in shops - -	
During erection on board vessel - - -		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. 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 E.T.Z. Slides 13-7-42 E.T.Z. Covers 25-6-42 E.T.Z.

Pistons 11/7/42 E.T.Z. Piston Rods 23-8-42 E.T.Z. Connecting rods 23-8-42 E.T.Z.

Crank shafts 26-11-42 E.T.Z. Thrust shafts 26-11-42 E.T.Z. Intermediate shafts 12-1-43 E.T.Z.

Tube shaft ✓ Screw shafts 12-1-43 E.T.Z. Propellers 12-1-43 E.T.Z.

Stern tubes 23-8-42 E.T.Z. Engine and boiler seatings ✓ Engines holding down bolts ✓

Completion of fitting sea connections ✓ Boilers fixed ✓ Engines tried under steam ✓

Completion of pumping arrangements ✓ Thickness of adjusting washers ✓

Main boiler safety valves adjusted ✓ Crank shaft material S.M. IN 40 T STEEL Identification Marks 6924 SFC 6927 SFC 23-4-42 23-4-42 Thrust shaft material S.M. STEEL Identification Marks 7252 SFC 7253 SFC 7254 SFC 9-10-42 9-10-42 23-10-42

Intermediate shafts, material S.M. STEEL Identification Marks 7256 SFC 7257 SFC 6-11-42 6-11-42 Tube shaft, material S.M. STEEL Identification Marks 7258 SFC 7259 SFC 7260 SFC 23-10-42 23-10-42 30-10-42

Screw shafts material S.M. STEEL Identification Marks 7256 SFC 7257 SFC 6-11-42 6-11-42 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 ✓ If so, have the requirements of the Rules been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓ If so, state whether the requirements in this respect have 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.)

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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 Eoole

Forging Report's attached

The above main engines installed on H.M. Salvage Vessel "PRINCE SALVOR
at Gooli: please see separate Rpt. 4.

W. S. Shields

The amount of Entry Fee	...	£	:	:	} When applied for, 17 MAY 1943 19
<i>7/5</i> Special <i>Fee</i>	...	£ <i>25</i>	:	<i>4</i> 0	
Donkey Boiler Fee	...	£	:	:	
Travelling Expenses (if any)	£	:	:	:	
					} When received, <i>Donkey</i> 19

Committee's Minute

Assigned: See p. many vols.

Engineer Surveyor to Lloyd's Register of Shipping.