

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 11844

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Survey held at South Bank-on-Tees Date, First Survey 22.2.23 Last Survey 19.2.1924
 on the machinery of the steel screw steamer "CRACKSHOT"
 made at South Bank By whom built Smith's Dock Co. Ltd. Yard No. 780 When built 1924
 made at South Bank By whom made Smith's Dock Co. Ltd. Engine No. 236 when made 1924
 made at Sunderland By whom made N.E. Marine Eng. Co. Ltd. Boiler No. 2522 when made 1924
 and Horse Power _____ Owners _____ Port belonging to _____
 Horse Power as per Rule 263 ✓ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Engines, &c.—Description of Engines Triple Expansion
 Cylinders 21-35-57½ Length of Stroke 42 Revs. per minute — No. of Cylinders 3 No. of Cranks 3
 Crank shaft journals as per rule 11.4 ✓ Dia. of Crank pin 11½ ✓ Crank webs Mid. length breadth 7½ Thickness parallel to axis 7½
 as fitted 11.5 ✓ Mid. length thickness 18½ If shrunk Thickness around eye-hole 5
 of Thrust shaft under collars as per rule 11.4 ✓ Diameter of Tunnel shaft as per rule 10.86 ✓ Diameter of Screw shaft as per rule 12.7 ✓ Is the Screw shaft
 as fitted 11.5 ✓ as fitted 11 as fitted 13.25
 Is the after end of the liner made watertight in the propeller boss Yes ✓
 Is the liner does not fit tightly at the part _____
 Is the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓
 Is an approved appliance fitted at the after end of the shaft to permit
 of efficiently lubricated No ✓ Length of Stern Bush 4-11½ ✓ Diameter of Propeller 16-0"
 Propeller 15-2" No. of Blades four State whether Moveable No Total Surface 75 ✓ square feet.
 Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3¼" Stroke 22 Can one be overhauled while the other is at work Yes ✓
 Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 3¼" Stroke 22 Can one be overhauled while the other is at work Yes ✓
 Number and size of power driven Feed and Bilge Auxiliary Pumps 1 @ 6x4x6 1 @ 10x11x10
 size of Pumps connected to the Main Bilge Line One 3 10x11x10
 size of Ballast Pumps One 10x11x10 No. and size of Lubricating Oil Pumps, including Spare Pump ✓
 independent means arranged for circulating water through the Oil Cooler ✓ No. and size of suctions connected to both Main Bilge Pumps and Auxiliary
 pumps;—In Engine and Boiler Room 2 @ 3" 1 @ 2½" and in Holds, &c. 2 @ 3" in Nos 1 & 2 holds
4 @ 2½" in No 5 hold Tunnel well 1 @ 2¼"

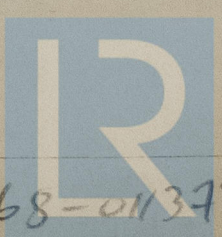
size of Main Water Circulating Pump Bilge Suctions One 6" No. and size of Donkey Pump Direct Suctions _____
 Engine Room Bilges One 3½" ✓ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes ✓
 Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges No (old rule)
 connections with the sea direct on the skin of the ship Yes ✓ Are they Valves or Cocks both
 fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes ✓ Are the Discharge Pipes 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
 pipes are carried through the bunkers suctions to forward holds How are they protected wood ceiling
 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 Screw Shaft Tunnel watertight Yes ✓ Is it fitted with a watertight door Yes ✓ worked from Top platform
 BOILERS, &c.—(Letter for record S) Total Heating Surface of 2 Boilers 446.2 square ft.
 Draft fitted No No. and Description of Boilers Two single ended marine Working Pressure 180 lbs.

REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 DONKEY BOILER FITTED? No If so, is a report now forwarded? ✓
 Are approved plans forwarded herewith for Shafting ✓ Main Boilers Yes Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Pumping Arrangements Yes Oil Fuel Burning Piping Arrangements ✓

RE GEAR. State the articles supplied:— One cast iron propeller, two each of connecting
rod top & bottom end and main bearing bolts & nuts, one set of
coupling bolts & nuts, one set of feed & bilge pump valves, one set
of main & donkey chuck valves, one safety valve spring, crank shaft gauge
a quantity of assorted bolts & nuts & iron of various sizes

The foregoing is a correct description,
Smith's Dock Co. Ltd.
W. H. Scott

Manufacturer.



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