

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 19 When handed in at Local Office 5<sup>th</sup> March 1925 Port of Sunderland  
 No. in Survey held at Sunderland Date, First Survey 26<sup>th</sup> March Last Survey 27<sup>th</sup> Feb 1925  
 Reg. Book. on the new steel S.S. SILVERMOOR (Number of Visits 52)  
 Built at Sunderland By whom built J. Brown & Sons Ltd. Yard No. 144 Tons { Gross 1906  
 Engines made at Sunderland By whom made N.E. Marine Eng Co Ltd Engine No. 2568 when made 1925  
 Boilers made at Sunderland By whom made N.E. Marine Eng Co Ltd Boiler No. 2568 when made 1925  
 Registered Horse Power Owners Moore Line Ltd Port belonging to Newcastle  
 Nom. Horse Power as per Rule 216 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

## ENGINES, &c.—Description of Engines.

Triple expansion  
 Dia. of Cylinders 20 1/2 - 33 - 54 Length of Stroke 39" Revs. per minute 75 No. of Cylinders 3 No. of Cranks 3  
 Dia. of Crank shaft journals as per rule 10.833 as fitted 10.845 Dia. of Crank pin 10 1/8" Crank webs Mid. length breadth 15 1/2" Thickness parallel to axis 6 3/4"  
 Diameter of Thrust shaft under collars as per rule 10.833 as fitted 10.78 Diameter of Tunnel shaft as per rule 10.378 as fitted 10.38 Diameter of Screw shaft as per rule 11.8 as fitted 11.78 Is the Screw shaft fitted with a continuous liner the whole length of the stern tube Yes 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 joints burned Yes If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive Yes  
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated Yes Length of Stern Bush 4'-0" Diameter of Propeller 14'-6"  
 Pitch of Propeller 15 1/2" No. of Blades 4 State whether Moveable Not moveable Total Surface 66 square feet.  
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 21" Can one be overhauled while the other is at work Yes  
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 3 1/2" Stroke 21" Can one be overhauled while the other is at work Yes  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps One 5 1/2 x 3 1/2 x 5"  
 No. and size of Pumps connected to the Main Bilge Line One Ballast Pump Connected to main bilge line  
 No. and size of Ballast Pumps One 4 x 9 x 9" No. and size of Lubricating Oil Pumps, including Spare Pump Yes  
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 @ 2 1/2" and in Holds, &c. Fore hold 2 @ 3"  
 No. and size of Main Water Circulating Pump Bilge Suctions One @ 5 1/2" No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges One @ 3 1/2" 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 connections with the sea direct on the skin of the ship Main suction through Tank other - Yes Are they Valves or Cocks Both main Discharges Yes  
 Are they 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 Other 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 Yes  
 What Pipes are carried through the bunkers Forward Hold Suction How are they protected Limber Boards  
 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 Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 3594 sq. ft.  
 Is Forced Draft fitted No No. and Description of Boilers Two Cylindrical Single ended marine type Working Pressure 180 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes

PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes  
 General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

SPARE GEAR. State the articles supplied:—  
 2 Top End Bolts and Nuts Yes  
 2 Connecting rod Bottom End Bolts & Nuts Yes  
 2 Main Bearing Bolts and Nuts Yes  
 6 Coupling Bolts and Nuts Yes  
 2 Feed Pump Valves Yes  
 2 Bilge Pump Valves Yes  
 1 Set of Air Pump Valves Yes  
 50 Assorted Bolts & Nuts Yes  
 1/2 cut Assorted Iron Plates Yes  
 1/2 cut " Iron Bars Yes  
 1 Cast Iron Propeller Yes

The foregoing is a correct description,  
 THE NORTH EASTERN MARINE ENGINEERING CO. LTD.  
C. T. Adams Manufacturer.



