

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 29 JUL 1925

Date of writing Report 19 When handed in at Local Office 27 JUL 1925 Port of LIVERPOOL  
 No. in Survey held at Birkenhead Date, First Survey 16<sup>th</sup> January Last Survey 26<sup>th</sup> July 1924  
 Reg. Book. 25053 on the s/s "La Perla" (Number of Visits 78) Gross 3830 Tons Net 2340  
 Built at Birkenhead By whom built Cammell, Laird & Co. Ltd. Yard No. 896 When built 1925  
 Engines made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Engine No. 2122 when made 1925  
 Boilers made at Birkenhead By whom made Cammell, Laird & Co. Ltd. Boiler No. 2122 when made 1925  
 Registered Horse Power Owners Knifemites S.S. Co. Ltd. (Black & Green, Agents) Port belonging to Glasgow  
 Nom. Horse Power as per Rule 578 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion Reciprocating  
 Dia. of Cylinders 24 $\frac{1}{2}$ ", 41 $\frac{1}{2}$ ", 69" Length of Stroke 48" Revs. per minute 78 No. of Cylinders 3 No. of Cranks 3  
 Dia. of Crank shaft journals as per rule 13.5" as fitted 13.2" Dia. of Crank pin 13.2" Crank webs Mid. length breadth 26.2" Thickness parallel to axis 9.5" shrunk Thickness around eye-hole 9.2"  
 Diameter of Thrust shaft under collars as per rule 13.5" as fitted 13.2" Diameter of Tunnel shaft as per rule 12.9" as fitted 13.2" Diameter of Screw shaft as per rule 14.25" as fitted 14.26" 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 One length 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  
 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 No Length of Stern Bush 4' 11" Diameter of Propeller 16' 3"  
 Pitch of Propeller 18' 3" No. of Blades 4 State whether Moveable Yes Total Surface 25 square feet.  
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 4' 2" Stroke 24" Can one be overhauled while the other is at work Yes  
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 4' 2" Stroke 24" Can one be overhauled while the other is at work Yes  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 Main Feed Pumps 9" x 12" x 24", 1 Aux. Feed Pump 6" x 12" x 13", 1 G.S. Pump 9" x 6" x 10" Inflex.  
 No. and size of Pumps connected to the Main Bilge Line Bilge & Ballast Pump 65 tons per hr. capacity, G.S. Pump 9" x 6" x 10" Inflex., O.F. Sump Pump 7" x 6" x 15"  
 No. and size of Ballast Pumps 1 Centrifugal 65 tons capacity No. and size of Lubricating Oil Pumps, including Spare Pump  
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suctions connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2-32", 2-3", 1-22" and in Holds, &c. 3-22" from aft, 2-22" from forward

No. and size of Main Water Circulating Pump Bilge Suctions 1-11" No. and size of Donkey Pump Direct Suctions  
 to the Engine Room Bilges 1-32" 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 Yes Are they Valves or Cocks Valves & Cocks  
 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 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 None How are they protected  
 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 9201 sq. ft. 358.  
 Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended Multitubular Working Pressure 200 lb.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?  
 PLANS. Are approved plans forwarded herewith for Shafting Yes 9/1/25 Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes  
 (If not state date of approval)  
 General Pumping Arrangements Oil fuel Burning Piping Arrangements Yes

SPARE GEAR. State the articles supplied:—  
 Propeller Shaft, 2 propeller blades, 2 connecting rod top and 2 bottom end bolts and nuts, 2 main bearing bolts and nuts, 1 set of coupling bolts and nuts, 1 set of feed and bilge pump valves, 1 set of rings and springs for each main piston, assorted bolts and nuts, iron of various sizes  
 Also additional spare gear as per list forwarded herewith.

The foregoing is a correct description,  
 GAMMELL LAIRD AND COMPANY LIMITED.

Manufacturer.

LOCAL SECRETARY.



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