

# RECIPROCATING ENGINE MACHINERY.

No. 18768

Received at London Office

Office 7-E-1946 Port of WEST HARTLEPOOL

Date, First Survey 26<sup>th</sup> July Last Survey 27<sup>th</sup> July 1946  
(Number of Visits 2)

EMPIRE ROCK

Tons { Gross 7061  
Net 4890

Yard No. When built 1943

Engine No. When made 1943

Boiler No. When made

Port belonging to SUNDERLAND

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES.

Engines INVERTED TRIPLE EXPANSION.

Revs. per minute 76

Cranks { No. of Cranks 3  
Mid. length breadth 21"  
Mid. length thickness 9"  
Thrust shaft, diameter at collars as per Rule 13.99"  
as fitted 14 1/4"

Tube Shafts, diameter as per Rule as fitted  
Screw Shaft, diameter as per Rule as fitted  
Is the { tube screw } shaft fitted with a continuous liner {

Bronze Liners, thickness in way of bushes as per Rule as fitted  
Thickness between bushes as per Rule as fitted  
Is the after end of the liner made watertight in the

propeller boss. 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.

at If so, state type. Is an approved Oil Gland or other appliance fitted at the after end of the tube  
Propeller, dia. 17-10 1/2 Pitch 15-3 No. of Blades 4 Material Cast Iron whether Moveable CXO Total Developed Surface sq. feet

Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27"  
Can one be overhauled while the other is at work Yes.

Feed { No. and size 3 @ 7 x 9 1/2 x 21" SIMPLEX  
Pumps How driven Independent Steam  
Pumps connected to the Main Bilge Line { No. and size 2 @ 4 x 2 1/2" 1 @ 10 1/2 x 13 x 24" 9 1 @ 7 x 9 1/2 x 21"

Ballast Pumps, No. and size 1 @ 10 1/2 x 13 x 24"  
Lubricating Oil Pumps, including Spare Pump, No. and size  
Are two independent means arranged for circulating water through the Oil Cooler

Bilge Pumps:—In Engine and Boiler Room 4 @ 3" 1 @ 5"  
Suctions, connected to both Main Bilge Pumps and Auxiliary

Pump Room. In Holds, &c. N°1. 2 @ 3" N°2. 2 @ 3" N°3. 2 @ 3"  
N°4. 2 @ 3" N°5. 2 @ 3" TUNNEL WELL 1 @ 2 1/2" Eng Rm + Boiler Room 4 @ 3"

Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 5"  
Independent Power Pump Direct Suctions to the Engine Room Bilges,

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 Sea Connections fitted direct on the skin of the ship On recesses. Are they fitted with Valves or Cocks Both.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates. Yes. Are the Overboard Discharges above or below the deep water line Below.

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 pass through the bunkers Bilge pipes to Forward Holds. How are they protected Wood ceiling.

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. 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 Shaft Tunnel watertight. Yes. Is it fitted with a watertight door. CXO worked from.

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 7353 sq ft

Which Boilers are fitted with Forced Draft CXO. Which Boilers are fitted with Superheaters CXO.

No. and Description of Boilers 3 Single ended cylindrical Working Pressure 220 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? CXO.

IS A DONKEY BOILER FITTED? CXO. 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 (If not state date of approval) Main Boilers. Auxiliary Boilers. Donkey Boilers.

Superheaters. General Pumping Arrangements. Oil fuel Burning Piping Arrangements.

Has the spare gear by the Rules been supplied. YES.

State the principal additional spare gear supplied.

The foregoing is a correct description.

Manufacturer.



© 2020

Lloyd's Register Foundation

002410-002417-0207



During progress of work in shops - - -

Dates of Survey while making

During erection on board vessel - - -

Total No. of visits

Dates of Examination of principal parts—Cylinders \_\_\_\_\_ Slides \_\_\_\_\_

Pistons \_\_\_\_\_ Piston Rods \_\_\_\_\_ Conn. \_\_\_\_\_

Crank shaft \_\_\_\_\_ Thrust shaft \_\_\_\_\_ Interme. \_\_\_\_\_

Tube shaft \_\_\_\_\_ Screw shaft \_\_\_\_\_ Propeller \_\_\_\_\_

Stern tube \_\_\_\_\_ Engines and boiler settings \_\_\_\_\_ Engines holding down bolts \_\_\_\_\_

Completion of fitting sea connections \_\_\_\_\_

Completion of pumping arrangements \_\_\_\_\_ Boilers fixed \_\_\_\_\_ Engines tried under steam \_\_\_\_\_

Main boiler safety valves adjusted \_\_\_\_\_ Thickness of adjusting washers \_\_\_\_\_

Crank shaft material \_\_\_\_\_ Identification Mark \_\_\_\_\_ Thrust shaft material \_\_\_\_\_ Identification Mark \_\_\_\_\_

Intermediate shafts, material \_\_\_\_\_ Identification Marks \_\_\_\_\_ Tube shaft, material \_\_\_\_\_ Identification Mark \_\_\_\_\_

Screw shaft, material \_\_\_\_\_ Identification Mark \_\_\_\_\_ Steam Pipes, material \_\_\_\_\_ Test pressure \_\_\_\_\_ Date of Test \_\_\_\_\_

Is an installation fitted for burning oil fuel \_\_\_\_\_ Yes \_\_\_\_\_ In 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 \_\_\_\_\_ Yes \_\_\_\_\_ 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 \_\_\_\_\_ Yes \_\_\_\_\_ If so, state name of vessel SS. EMPIRE TOURIST

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel appears to be in good condition and eligible in my opinion to have the notation Classification contemplated.

The amount of Entry Fee	£	:	When applied for
Special	£	:	10
Boiler Fee	£	:	When received
Tax (See Regulations)	£	:	10

Arthur L. G. G. G.  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Remarks \_\_\_\_\_

Designated as a vessel in hull T.C. 115