

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Site of writing Report 19 When handed in at Local Office 28. 6. 1943 Port of GLASGOW - 1 JUL 1943  
 No. in Survey held at GLASGOW Date, First Survey 29th Dec 1942 Last Survey 18th June 1943  
 Reg. Book on the S.S. "BRIGHTON."  
 Built at BURNTISLAND By whom built BURNTISLAND S.B. CO. LD. Yard No. 271 When built 1943  
 Engines made at GLASGOW By whom made DAVID ROWAN & CO. LD. Engine No. 1128 When made 1943  
 Boilers made at -DO- By whom made -DO- Boiler No. 1116 When made 1943  
 Registered Horse Power Owners Port belonging to  
 Nom. Horse Power as per Rule 512 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted  
 Trade for which vessel is intended

GINES, &c.—Description of Engines TRIPLE EXPANSION  
 Dia. of Cylinders 23 1/2" - 40 3/4" - 70 1/2" Length of Stroke 48" No. of Cylinders 3 Revs. per minute 3  
 as per Rule 13.7" Crank pin dia. 14 1/2" Mid. length breadth 27 1/4" Thickness parallel to axis 9"  
 as fitted 14" Crank webs 9" shrunk Thickness around eye-hole 6 3/8"  
 Intermediate Shafts, diameter as per Rule 13.05" Thrust shaft, diameter at collars as per Rule 13.7"  
 as fitted 13 3/8" as fitted 14"  
 Tube Shafts, diameter as per Rule 14.55" Is the {tube screw} shaft fitted with a continuous liner {YES  
 as fitted 15" as fitted 15"  
 Bronze Liners, thickness in way of bushes as per Rule .74" Thickness between bushes as per Rule .55"  
 as fitted 3/4" as fitted 1 1/16" 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 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 YES  
 If two liners are fitted, is the shaft lapped or protected between the liners.  
 at NO If so, state type Length of Bearing in Stern Bush next to and supporting propeller 5'-0"  
 Propeller, dia. 18'-0" Pitch 18'-1 1/2" No. of Blades 4 Material C.B. whether Moveable NO Total Developed Surface 107 sq. feet  
 Feed Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27" Can one be overhauled while the other is at work YES  
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27" Can one be overhauled while the other is at work YES  
 Feed Pumps {No. and size Pumps connected to the Main Bilge Line {No. and size  
 How driven 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 Holds, &c.  
 Pump Room

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  
 That Pipes pass through the bunkers How are they protected  
 That 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 S) Total Heating Surface of Boilers 7248 sq. ft. NO SUPERHEATERS  
 Which Boilers are fitted with Forced Draft ALL Which Boilers are fitted with Superheaters ALL  
 No. and Description of Boilers 3 S.E. Working Pressure 220 lb. FATTED

IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES

IS A DONKEY BOILER FITTED? NO

If so, is a report now forwarded? YES

Is the donkey boiler be used for domestic purposes only YES

PLANS. Are approved plans forwarded herewith for Shafting 3-12-42 Main Boilers YES Auxiliary Boilers Donkey Boilers

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

## SPARE GEAR.

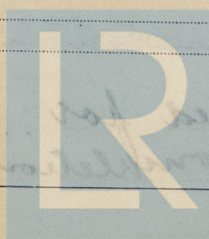
Is the spare gear required by the Rules been supplied YES

Is the principal additional spare gear supplied LIST ATTACHED

The foregoing is a correct description.

For David Rowan & Co. Ltd.  
 Archd. N. Grierson

Manufacturer.



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Lloyd's Register  
 Foundation

004387-004393-0263



1942 Dec 29 1943 Feb 24 Mar 4 5 8 12 17 19 25 26 29 Apr 1 5 6 20 May 4 12 14 17 20 24 26 Jun 1 7  
During progress of work in shops -- 1-18  
During erection on board vessel --  
Total No. of visits 26

Dates of Examination of principal parts - Cylinders 8-3-43 Slides 19-3-43 Covers 8-3-43  
Pistons 12-5-43 Piston Rods 12-5-43 Connecting rods 12-5-43  
Crank shaft 1-4-43 Thrust shaft 1-4-43 Intermediate shafts 20-4-43  
Tube shaft - Screw shaft 20-4-43 Propeller 20-4-43  
Stern tube 24-5-43 Engine and boiler seatings 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 SM. Steel Identification Mark 12003 AFB Thrust shaft material SM. Steel Identification Mark 12003 AFB  
Intermediate shafts, material SM. Steel Identification Marks 12003 AFB Tube shaft, material Identification Mark  
Screw shaft, material SM. Steel Identification Mark 12003 AFB Steam Pipes, material D.H. Steel Test pressure 660 lb. Date of Test May/June, 1943  
Is an installation fitted for burning oil fuel No 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  
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo 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 "CARLTON" J.G. Reg. No 66000

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been sent to Burntisland for installation in the vessel, and upon completion of satisfactory trials will, in my opinion, be eligible to be classed with record + LMC with date and notation CL.

The amount of Entry Fee ... £ 6 : : When applied for,  
4/5 Special GHS A/c ... £ 80 : 9-6 : 20 JUN 1943  
1/5 Donkey Boiler Fee LEITH A/c ... £ 20 : 2-6 :  
Travelling Expenses (if any) £ : : When received, 19

Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 29 JUN 1943

TUES. 31 AUG 1943

Assigned Referred for Completion

sec minute on J.G. Rpt (CL)

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