

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office **1 JUL 1943**

Date of writing Report **19** When handed in at Local Office **28. 6. 1943** Port of **GLASGOW**

No. in Survey held at **GLASGOW** Date, First Survey **29th Dec 1942** Last Survey **18th June 1943**

Reg. Book **S.S. "BRIGHTON."** (Number of Visits **26**)

on the **S.S. "BRIGHTON."** Tons { Gross / Net

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** Revs. per minute _____

Dia. of Cylinders **23 1/2" - 40 3/4" - 70 1/2"** Length of Stroke **48"** No. of Cylinders **3** No. of Cranks **3**

Crank shaft, dia. of journals as per Rule **13.7"** as fitted **14"** Crank pin dia. **14 1/2"** Mid. length breadth **27 1/4"** Thickness parallel to axis **9"**

Intermediate Shafts, diameter as per Rule **13.05"** as fitted **13 3/8"** Crank webs Mid. length thickness **9"** shrunk Thickness around eye-hole **6 3/8"**

Thrust shaft, diameter at collars as per Rule **13.7"** as fitted **14"**

Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule **14.55"** as fitted **15"** Is the **yes** screw shaft fitted with a continuous liner **YES**

Bronze Liners, thickness in way of bushes as per Rule **.74"** as fitted **3/4"** Thickness between bushes as per Rule **.55"** as fitted **11/16"** 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 **YES**

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 **YES**

Is an approved Oil Gland or other appliance fitted at the after end of the tube **YES**

Propeller, dia. **18'-0"** Pitch **18'-1 1/2"** No. of Blades **4** Material **C.I.** whether Moveable **NO** Total Developed Surface **107** sq. feet

Feed Pumps worked from the Main Engines, No. **1** Diameter _____ Stroke _____ 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 / How driven } _____

Pumps connected to the Main Bilge Line { No. and size / How driven } _____

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 _____

Pump Room _____ In Holds, &c. _____

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 _____

What Pipes pass through the bunkers _____ How are they protected _____

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 _____

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** **NO SUPERHEATERS FITTED.**

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.**

IS A REPORT ON MAIN BOILERS NOW FORWARDED? **YES**

IS A DONKEY BOILER FITTED? **NO** If so, is a report now forwarded? _____

Can the donkey boiler be used for domestic purposes only **YES**

PLANS. Are approved plans forwarded herewith for Shafting **3-12-42** Main Boilers **Y.10** Auxiliary Boilers _____ Donkey Boilers _____

(If not state date of approval)

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

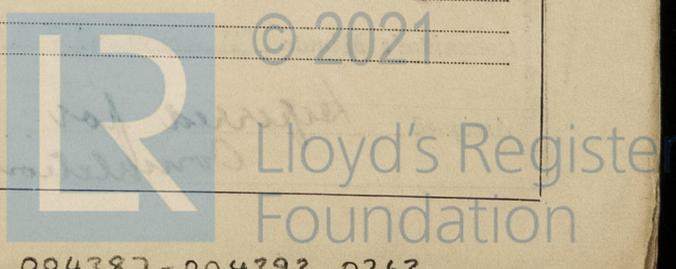
SPARE GEAR.

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.



Rpt. No. in Reg. Boob. Built of Engines Boilers Nomina. MUL Manuf. Total No. an Tested Area Area In cas Small Small Large Thick long. Perce Perce Thick Mater Leng Dime End How Tubo Mean Gird at e in e Ten Pitc Fro Thic Pitc Mai Dia Scr Dia

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 21 22 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 C.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: When received,
Travelling Expenses (if any)	£	19

J.B. Mann
 Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 29 JUN 1943

TUES. 31 AUG 1943

Assigned Keferred for Completion

sec minute on J.G. Rpt (A.P.)

22643

Certificate to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

