

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 21 MAR 1944 When handed in at Local Office 21 MAR 1944 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Wallsend Date, First Survey 17th June 1943 Last Survey 10th March 1944
 Reg. Book (Number of Visits 48)
 on the SS 'EMPIRE ABBEY' Tons Gross 7032 Net 4732
 Built at Newcastle By whom built Armstrong Whitworth Ltd Yard No. 6 When built 1944
 Engines made at Wallsend By whom made N.E. Marine Engls (1938) Engine No. 3062 When made 1944
 Boilers made at Sunderland By whom made G. Clark Ltd Boiler No. 1307 (NS) When made 1944
 Registered Horse Power Owners Ministry of War Transport Port belonging to Newcastle
 Nom. Horse Power as per Rule 542 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes
 Trade for which vessel is intended Ocean Going

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 76
 Dia. of Cylinders 24 1/2 - 39 - 70 Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.98 Crank pin dia. 14 3/4 Crank webs Mid. length breadth 22 Thickness parallel to axis 9
 as fitted 14 1/4 Mid. length thickness 9 shrunk Thickness around eye-hole 6 3/8
 Intermediate Shafts, diameter as per Rule 13.32 Thrust shaft, diameter at collars as per Rule 13.98
 as fitted 13 7/8 as fitted 14 1/4
 Tube Shafts, diameter as per Rule 14.84 Screw Shaft, diameter as per Rule 15 1/4 Is the tube shaft fitted with a continuous liner yes
 as fitted 15 1/4 as fitted 15 1/4 Is the screw shaft fitted with a continuous liner yes
 Bronze Liners, thickness in way of bushes as per Rule .75 Thickness between bushes as per Rule .56 Is the after end of the liner made watertight in the
 as fitted .81 as fitted .65 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
 at no If so, state type yes Length of Bearing in Stern Bush next to and supporting propeller 6'-1"
 Propeller, dia. 17'-10 1/2" Pitch 15.6 No. of Blades 4 Material C.I. whether Moveable no Total Developed Surface 114 3/4 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 2 @ 8 x 10 1/2 x 22 1 @ 9 1/2 x 7 x 21 Pumps connected to the Main Bilge Line No. and size 1 @ 10 1/2 x 13 x 24 1 @ 9 1/2 x 7 x 21 2 @ 4 x 27
 How driven Steam How driven Steam M. Eng.
 Ballast Pumps, No. and size 1 @ 10 1/2 x 13 x 24 Lubricating Oil Pumps, including Spare Pump, No. and size yes
 Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps:—In Engine and Boiler Room 2 @ 3" in Eng Room 2 @ 3" in Blr Room
 In Pump Room 1 @ 2 1/2" Tunnel Well In Holds, &c. 1 @ 1 1/2" in each hold
 Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 9" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1 @ 5" 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 Sea Connections fitted direct on the skin of the ship yes 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 forward Bilge Suctions How are they protected lumber boards
 What pipes pass through the deep tanks Have they been tested as per Rule yes
 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 no worked from yes

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7974 sq. ft.
 Which Boilers are fitted with Forced Draft yes Which Boilers are fitted with Superheaters P.S. main boilers
 No. and Description of Boilers 2 SB & 1 aux SB Working Pressure 220
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? 2 main boilers B.C. Survey (cert attached)
 IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes
 Can the donkey boiler be used for domestic purposes only yes
 PLANS. Are approved plans forwarded herewith for Shafting B. Type Main Boilers yes Auxiliary Boilers 11.10.41 Donkey Boilers yes
 (If not state date of approval)
 Superheaters Standard General Pumping Arrangements 27.8.42 Oil fuel Burning Piping Arrangements yes

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes
 State the principal additional spare gear supplied

John Neill

DIRECTOR.

Manufacturer.



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