

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

29 JUL 1942

Date of writing Report 2/5/1942 When handed in at Local Office 2/5/1942 Port of W. Hartlepool
 No. in Survey held at Hartlepool Date, First Survey 16th Oct., 1941, Last Survey 30th April 1942
 Reg. Book. on the S.S. "EMPIRE BEAUMONT" (Number of Visits 67)
 Built at Haverston Hill By whom built Furness Shipbuilding Co. Ltd. Yard No. 345 Tons { Gross Net
 Engines made at Hartlepool By whom made Richardsons Ltd. Engine No. 2719 When built 1942
 Boilers made at " By whom made " Boiler No. 2719 When made 1942
 Registered Horse Power Owners (MAN.) Runciman Shipping Co. Ltd. Port belonging to Newcastle on Tyne
 Nom. Horse Power as per Rule 514 5¹⁰ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended ✓

ENGINES, &c.—Description of Engines Triple Expansion Vertical Simple Condensing Revs. per minute 76
 Dia. of Cylinders 24 1/2" x 39" x 40" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals 13 1/4" as per Rule 13.99 as fitted 14 1/4" Crank pin dia. 14 3/4" Crank webs Mid. length breadth 9" Thickness parallel to axis 6 3/8"
 Intermediate Shafts, diameter 13 3/8" as per Rule 13.33 as fitted 13 3/8" Thrust shaft, diameter at collars 14 1/2" as per Rule 13.99 as fitted 14 1/2"
 Tube Shafts, diameter 14 1/2" as per Rule 14.82 as fitted 15 1/4" Is the tube shaft fitted with a continuous liner Yes
 Screw Shaft, diameter 7 1/2" as per Rule 7.65 as fitted 7 1/2" Thickness between bushes 13 1/4" as per Rule 5.14 as fitted 11 1/4" 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 two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft No If so, state type ✓
 Length of Bearing in Stern Bush next to and supporting propeller 5-0 7/8"
 Propeller, dia. 17'-10 1/2" Pitch 15'-6" mean No. of Blades 4 Material Cast Iron 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 Two 9 1/2" x 7 x 21" How driven Steam Pumps connected to the Main Bilge Line { No. and size ONE 10 1/2" x 14" ONE 9 1/2" x 21" How driven Two Engine Bilge Pumps
 Ballast Pumps, No. and size one - 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 ✓ Suctions connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Engine Room 3" P.S. Independent Suction 5" Stand. Boiler Room 3" P.S.
 In Pump Room 3"-N°1 Hold 3"-N°2 Hold 3"-N°3 Hold (P.S. in all holds)
 Main Water Circulating Pump Direct Bilge Suctions, No. and size one 9" Port Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one 5" Stand. One 3 1/2" Portable 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 N°1, 2, 3 Hold. P.S. Bilge Suction Three Pocket Bunkers How are they protected Wood casings
 What pipes pass through the deep tanks N°6 Hold suction pipes 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 Escape trunk worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7353 sq ft 7248
 Which Boilers are fitted with Forced Draft all Which Boilers are fitted with Superheaters all
 No. and Description of Boilers 3 S.E. Multitubular Working Pressure 220 lb/sq in
 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 ✓
 PLANS. Are approved plans forwarded herewith for Shafting 29/10/41 Main Boilers 9/7/41 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval) General Pumping Arrangements 11.12.41 Oil fuel Burning Piping Arrangements ✓
 Superheaters ✓

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied 1. C.I. propeller. 1 complete bottom end bearing bolts. 1 complete top end bearing bolts. 2. Main bearing bolt nuts. 6 connecting bolt nuts. 1 set ring for HP piston. 1 set ring for HP piston valve. 1 set pack for Mitchell Diesel block. 6 holding down bolt nuts. 6 cyl cover stud nuts. 6 valve chest stud nuts. 6 pump ring stud nuts. 1 set bilge pump valve seats. 1 set air pump valves. 1 safety valve spring. 1. Main & 1 Aux chest valve lid seat. 11 boiler tubes. 12 tube stoppers. 1 spare shaft for circulating pump. 1 spare set of valves for Ballast & Gen Service pumps. 1 set of valves for one Main Feed pump. 6. Main Condenser tubes & 6 Aux Condenser tubes. 50 ferrules for each. Assorted bolt nuts washers

For RICHARDSONS, WEBB & Co. LIMITED.
 The foregoing is a correct description.

DIRECT MANUFACTURER.



© 2020

Lloyd's Register

W117370069

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

1941. Oct. 16. Nov. 25. 28. Dec. 1. 8. 12. 18. 19. 22. 24. 26. 29. 1942. January 5. 6. 7. 13. 14. 22. 24. 26. 30.
Feb. 2. 4. 11. 13. 16. 18. 20. 23. 24. 26. 27. March 3. 4. 10. 12. 13. 16. 17. 18. 19. 20. 24. 25. 28. 30. 31. April 1. 2. 3. 7.
9. 10. 11. 12. 14. 15. 16. 18. 20. 22. 23. 24. 25. 27. 28. 29. 30.

Dates of Examination of principal parts—Cylinders 28/11/41 Slides 30/1/42 Covers 30/1/42
Pistons 18/12/41 Piston Rods 30/1/42 Connecting rods 24/1/42
Crank shaft 5/1/42 Thrust shaft 14/1/42 Intermediate shafts 28/1/42 + 25/3/42
Tube shaft Screw shaft 25/3/42 Propeller
Stern tube 24/3/42 Engine and boiler seatings 25/3/42 Engines holding down bolts 27/4/42
Completion of fitting sea connections 30/3/42.
Completion of pumping arrangements 8/5/42 Boilers fixed 23/4/42 Engines tried under steam 8/5/42.
Main boiler safety valves adjusted 8/5/42 Thickness of adjusting washers Port 13/32 P.V. 7/16 S.V. 13/32
Crank shaft material steel Identification Mark 5566 ERB Thrust shaft material steel Identification Mark 5517 ERB
Intermediate shafts, material steel Identification Marks 5565 ERB Tube shaft, material Identification Mark
Screw shaft, material steel Identification Mark 5553 ERB Steam Pipes, material steel Test pressure 660 lb/sq. in. Date of Test 11/7/42
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 No If so, state name of vessel Standard "B" Type Ship

General Remarks (State quality of workmanship, opinions as to class, &c.)
The engines + boilers of this vessel have been constructed under Special Survey + in accordance with the approved plans + specification.
The workmanship + materials have been found good.
The machinery has been forwarded to Haverton Hill for fitting on board.
In my opinion, this vessel will be eligible to have record of + LMC - with date - on completion.

The Machinery fitted on board in accordance with the approved plans + Rule Requirements, tried out under working conditions + found satisfactory + in our opinion is eligible for record of + LMC 5.42 + notation of TS(EL)-5.42.

The amount of Entry Fee ... £ 6 : 0 :
Special L.M.C. ... £ 80 : 11 :
Supervision Donkey Boiler Fee ... £ 20 : 3 :
Travelling Expenses (if any) £ 20 : 3 :
Committee's Minute
Assigned

Clive Bell
Engineer Surveyor to Lloyd's Register of Shipping.
B. W. M. Street + J. W. M.