

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

13 APR 1942

Date of writing Report 07/3 19 42 When handed in at Local Office 23/3 19 42 Port of Newcastle on Tyne
 No. in Survey held at Newcastle on Tyne Date, First Survey 27 Jan 1941 Last Survey 19 March 1942
 Reg. Book. on the S/S "BALTYK" (Number of Visits 69)
 Built at Newcastle By whom built Swan, Hunter & Wigham Richardson Ltd Yard No. 1704 When built 1942
 Engines made at ditto By whom made ditto Engine No. 1704 When made 1942
 Boilers made at ditto By whom made ditto Boiler No. 1704 When made 1942
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Rule 433 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended Ocean going.

ENGINES, &c.—Description of Engines 3 Cyl. Triple Exp. Recip. Revs. per minute 72
 Dia. of Cylinders 23" + 39" + 66" Length of Stroke 45" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.136 Crank pin dia. 13 3/8" Crank webs Mid. length breadth shrunk Thickness parallel to axis 8 3/8"
 as fitted 13 3/8" Mid. length thickness _____ Thickness around eye-hole 6 1/2" at journals
 Intermediate Shafts, diameter as per Rule 12.5" Thrust shaft, diameter at collars as per Rule 13.136 5 1/2" at pins.
 as fitted 13 1/4" as fitted 14"
 Tube Shafts, diameter as per Rule none Screw Shaft, diameter as per Rule 13.97 Is the tubo shaft fitted with a continuous liner Yes
 as fitted _____ as fitted 14 1/4" Is the screw shaft fitted with a continuous liner _____
 Bronze Liners, thickness in way of bushes as per Rule 23.75" Thickness between bushes as per Rule 18/32" Is the after end of the liner made watertight in the
 as fitted 24/32" as fitted 23/32" 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 In one piece.
 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 a tight fit.
 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
 shaft No If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 58 1/2"
 Propeller, dia. 17'-6" Pitch 16'-3" No. of Blades 4 Material Cast Iron whether Moveable No Total Developed Surface 105 sq. feet
 Feed Pumps worked from the Main Engines, No. none Diameter _____ Stroke _____ Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 5 1/4" Stroke 26" Can one be overhauled while the other is at work Yes
 Indep. Feed Pumps { No. and size Two, 9 1/2", 7" x 18" + G.S.P. 5 1/2" x 7 1/2" x 15" Pumps connected to the _____ No. and size Three: one Ballast 10 1/2", 12 1/2" x 21" Two 5 1/2" x 26"
 How driven Steam Main Bilge Line _____ How driven Steam 200 tons/hr each 43 tons/hr
 Ballast Pumps, No. and size One 10 1/2", 12 1/2" x 21" Lubricating Oil Pumps, including Spare Pump, No. and size none
 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 3 of 3" dia + Jannel well 1 of 2 1/2" In Holds, &c. No 1 Hold, 2 of 3"; No 2 Hold, 2 of 3 1/2"; Cross-tanker 2 of 2 1/2";
 In Pump Room no 3 Hold, 2 of 3"; no 4 Hold 2 of 3"
 Main Water Circulating Pump Direct Bilge Suctions, No. and size one 8" dia. on port side Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size one 8" dia. on stbd side 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 Bilge suction p'ts to No 2 + 1 Holds How are they protected Lumber Boards
 What pipes pass through the deep tanks none 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 _____

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 6080 sq. ft.
 Which Boilers are fitted with Forced Draft both Which Boilers are fitted with Superheaters none
 No. and Description of Boilers 2 S.E. Boilers Working Pressure 220 lbs.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No 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 2nd & 5th/12/40 Main Boilers 2/12/40 Auxiliary Boilers Yes Donkey Boilers Yes
 (If not state date of approval)
 Superheaters _____ General Pumping Arrangements 8/12/41 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.
2 Eccentric Straps, 10 Main Condenser tubes, 10 Auxy Condenser tubes,
50 Condenser tube ferrules.

The foregoing is a correct description.

SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

G. J. Tweedy

Manufacturer.

DIRECTOR.



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Lloyd's Register Foundation

010720-010726-0223

1941
 Jan. 27. Mar. 14. Apr. 16. 18. June 6. 20. 30. July 2. 4. 21. Aug. 1. 8. 26. 28. Sep. 19. Oct. 6. 8. 9. 15.
 During progress of work in shops -- 21. 24. 27. 29. 30. 31. Nov. 4. 5. 6. 8. 12. 14. 17. 18. 19. 21. 24. 27. Dec. 2. 3. 4. 8. 9. 10. 12. 18. 19. 22.
 1942
 24. 26. 29. Jan. 5. 9. 10. 13. 16. 19. 21. Feb. 4. 6. 12. 13. 17. 24. 25. Mar. 3. 10. 13. 17. 19.
 During erection on board vessel ---
 Total No. of visits 69.

Dates of Examination of principal parts—Cylinders 27/11/41 Slides 12/12/41 Covers 27/11/41
 Pistons 12/12/41 Piston Rods 12/12/41 Connecting rods 12/12/41
 Crank shaft 18/11/41 Thrust shaft 18/11/41 Intermediate shafts 18/11/41
 Tube shaft ✓ Screw shaft 24/11/41 Propeller 24/12/41
 Stern tube 12/12/41 19/12/41 Engine and boiler seatings 19/12/41 & 4/2/42 Engines holding down bolts 6/2/42
 Completion of fitting sea connections 19/12/41
 Completion of pumping arrangements 10/3/42 Boilers fixed 4/2/42 Engines tried under steam 25/2/42
 Main boiler safety valves adjusted 24/2/42 Thickness of adjusting washers PORT BLK 3/8 AFT.V. 13/3/42
 Crank shaft material F.S. Identification Mark 10715 + 9899 DB THRUST BLK 3/8 FOR.V. 11/32 1/32
 Intermediate shafts, material F.S. Identification Marks 10715 H.A.I. Tube shaft, material none Identification Mark ✓
 Screw shaft, material F.S. Identification Mark 10715 H.A.I. Steam Pipes, material S.D. SLL Test pressure 660 lb. Date of Test 24/10/41 to 13/2/42
 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 No 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 not required
 Is this machinery duplicate of a previous case Yes If so, state name of vessel Empire Foam No. R# 99549. Yard No 1694

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery of this Vessel, has been constructed under special survey in accordance with the approved plans and the Society's Rules, and the materials and workmanship are good.

The machinery has been efficiently fitted on board, tried under working conditions, with satisfactory results, and is eligible in my opinion, for record + LMC 3, H2, and the notations 2.5B. FD. 220%, CL.

NEWCASTLE-ON-TYNE.

Certificate to be sent to

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

The amount of Entry Fee ... £ 5 : - : When applied for,
 Special ... £ 89 : 19 : 110 APR 1942
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 19

A. Watt.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 TUE. 21 APR 1942
 J. H. 2
 J. D., Cd.

