

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19th 1945 When handed in at Local Office 8. 11. 1945 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Wallsend Reg. Book Date, First Survey (1943) Nov. 5th Last Survey 31st Oct 1945
 on the SS "EMPIRE HONDURAS" (Number of Visits 90)
 Built at Sunderland By whom built Short Bros. Yard No. 486 Tons { Gross When built 1945-10
 Engines made at ditto By whom made Geo. Clark & Co (1938) Ltd Engine No. 3054 When made 1943
 Boilers made at Wallsend By whom made N.E. Mar. Eng. Co (1938) Ltd Boiler No. 3081 When made 1945
 Registered Horse Power Owners Min. of War Transport Port belonging to Sunderland
 Nom. Horse Power as per Rule 510 ✓ 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. ✓
 Dia. of Cylinders 24 1/2, 37, 70 Length of Stroke 48 No. of Cylinders 3 Revs. per minute 76 ✓
 Crank shaft, dia. of journals See Sunderland Rpt. 2433850 No. of Cranks 3 ✓
 as fitted Crank pin dia. Crank webs Thickness parallel to axis
 Intermediate Shafts, diameter 13.32" as per Rule 13.98" as fitted 14 1/4" ✓
 as fitted 13 5/8" ✓ Thrust shaft, diameter at collars
 Tube Shafts, diameter 14.84 as per Rule 15 1/4" as fitted 18 1/32" ✓
 as fitted 24 3/32" as fitted 15 1/4" ✓ Is the screw shaft fitted with a continuous liner Yes ✓
 Bronze Liners, thickness in way of bushes 13 1/16" as per Rule 18 1/32" as fitted 21 1/32" ✓
 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 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 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 5 1/1" ✓
 Propeller, dia. 18 1/3" Pitch 15 1/6" No. of Blades 4 Material C. Iron whether Moveable No Total Developed Surface 98.5 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 ✓ Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes ✓
 Bilge Pumps worked from the Main Engines, No. 2 ✓ Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes ✓
 No. and size 2 7/8 x 9 1/2 x 21 1/2 GSP 9 1/2 x 7 x 21 Pumps connected to the Main Bilge Line No. and size GSP 9 1/2 x 7 x 21; Ball P. 2 1/2 x 26 ✓
 How driven by steam ✓ How driven by steam ✓
 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 ✓
 Bilge Pumps:—In Engine and Boiler Room 1 7/8 3" P. side E.R.; 2 7/8 3" in B.Rm; 1 7/8 3" in Thrust Recess; 1 7/8 2 1/2" in Tunnel Well
 In Pump Room ✓ In Holds, &c. 2 7/8 3" in each hold ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 7/8 9" on P. side ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 7/8 5" on Sth side E.Rm ✓
 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 with 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 Nil ✓ How are they protected ✓
 What pipes pass through the deep tanks Nil ✓ 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 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 7248 sq. ft. ✓
 Which Boilers are fitted with Forced Draft all ✓ Which Boilers are fitted with Superheaters all ✓
 No. and Description of Boilers 3. S.B. (Spt) Working Pressure 220 lb. ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes ✓
 IS A DONKEY BOILER FITTED? No ✓
 Can the donkey boiler be used for domestic purposes only ✓ If so, is a report now forwarded? ✓

PLANS. Are approved plans forwarded herewith for Shafting Standard B Type Main Boilers 17-11-43 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval) Superheaters NEM. Standard General Pumping Arrangements 11-4-45 Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes ✓
 State the principal additional spare gear supplied As per specification

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.
 The foregoing is a correct description.

John Neill

DIRECTOR.

Manufacturer.



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011823-011825-0177

Is a Report also sent on the Hull of the Ship? From Std. 3. Varying & casting reports; 1 copy special cert; 4 tests of shafting.

NOTE.—The words which do not apply should be deleted.

2m T 11.41. MCO. (MADE IN ENGLAND.)

During progress of work in shops - - (1943) Nov. 5, (1944) Mar. 3, 6, Apr. 4, 28 July 31 Aug. 15, Dec. 5, 13 (1945) Jan. 24, 25, 26, 30, Feb. 6, 21, 22, 26, 28 Mar. 12, 16 Apr. 10, 19, 27 May 1, 2, 4, 10, 11, 23, 25 June 2, 4, 8, 12, 14, 15, 18, 19, 20, 21, 23, 27 July 2, 4, 5, 6, 11, 12, 13, 16, 18, 19, 20, 31, Aug. 9, 13, 20, 22, 23, 27, 28, 29, 30, 31 Sept. 3, 12, 13, 17, 18, 19, 20, 21, 24, 25, 27, 28 Oct. 1, 2, 12, 19, 22, 23, 25-30, 31
During erection on board vessel - - -
Total No. of visits 90

Dates of Examination of principal parts—Cylinders See Sld. Rpt. no. 33850. Slides Covers
Pistons Piston Rods Connecting rods
Crank shaft Thrust shaft 14-6-45 Intermediate shafts 14-6-45
Tube shaft at works 8-6-45 Screw shaft 24-8-45 Propeller 29-8-45
Stern tube at Ship 18-6-45 Sld Engine and boiler seatings 31-8-45 & 13-9-45 Engines holding down bolts 13-9-45
Completion of fitting sea connections 18-6-45 Sld
Completion of pumping arrangements 1-10-45 Boilers fixed 13-9-45 Engines tried under steam at Quay, 2-10-45. at Sea 31-10-45.
Main boiler safety valves adjusted 1-10-45 Thickness of adjusting washers PORT BLR. CENTAL BLR. STAR BLR. PORT V. STAB V. SPT. V. 3/8. 3/8. 3/8. 3/8. 3/8. 1/4. 1/4. 1/4.
Crank shaft material F. STL Identification Mark N° 3054 WHF 4/1/43. Thrust shaft material F. STL Identification Mark NA 340 HT 4A 4553. SET. 3. N° 4
Intermediate shafts, material F. STL Identification Marks See list below and LLOYD'S 3464 CP. Identification Mark
Screw shaft, material F. STL Identification Mark NA 338 HT 30827 SET. 3. N° 2. Steam Pipes, material S.D. STL Test pressure 660 LBS Date of Test 19-7-45 18-25-945
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 desired.
Is this machinery duplicate of a previous case Yes ✓ If so, state name of vessel Empire Nairobi Nov. Rpt 102835.
General Remarks (State quality of workmanship, opinions as to class, &c.)

The Shafting except No 4. Closing length of Inter. shafting, is American Steel, marked as follows,
Thrust Shaft: NA 340, HT 4A 4553. Set 3. N° 4.

Intermediate Shaft N° 4: Lloyd's 3464 CP. 12-3-45.

" " N° 5: NA 338. HT 30837 Set 3. N° 2.

" " N° 6: NA 334. HT 30857 Set 3. N° 2

" " N° 7: NA 335. HT 30860. Set 3. N° 2.

" " N° 8: NA 336. HT 30812. Set 3. N° 2.

Screw Shaft NA 338. HT 30837. Set 3. N° 2.

These Shafts were "Brinell"
check tested with satisfactory
results as shown on
Test Sheet

The machinery has been constructed and installed on board under special survey, in accordance with the approved plans, specification and the Society's Rules, and the materials and workmanship are good.

The machinery was afterwards tested under working conditions at Quay, and at Sea with satisfactory results, and is eligible, in my opinion, for record LMC. 10.45., and the notations 3 SB (Spt), 220 lbs. CL.

The amount of Entry Fee ... £ : When applied for,
Special 3/5 of £100-10. 60-6-0 112 NOV 1945
+ 25% for Spec. Superv. 15-1-6
Donkey Boiler Fee ... £ : When received,
Travelling Expenses (if any) £ : 19.

Committee's Minute ... FRI. 30 NOV 1945

Assigned ... + LMC 10.45

Spt. F.D. C.L.

A Watt

Engineer Surveyor to Lloyd's Register of Shipping.



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