

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

23 JUN 1941

Date of writing Report 19 When handed in at Local Office 16 June 1941 Port of SUNDERLAND

No. in Survey held at SUNDERLAND Date, First Survey 15 Jan. Last Survey 11 June 1941
 Reg. Book. on the S/S "CAPITOL" (Number of Visits 58) Gross 1558 Tons Net 885

Built at Sunderland By whom built A.P. Austin & Son, Ltd Yard No. 355 When built 1941

Engines made at do. By whom made H. E. Mannis Eng. Co. (1938) Engine No. 2997 When made do.

Boilers made at do. By whom made do. Boiler No. do. When made do.

Registered Horse Power Owners Gas Light & Coke Co Port belonging to London

Nom. Horse Power as per Rule 196 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended Coal

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute

Dia. of Cylinders 16 1/2", 27 1/2", 47" Length of Stroke 33" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 9.19" Crank pin dia. 9 1/2" Crank webs Mid. length breadth 5 3/4" Thickness parallel to axis 4 3/4", 5"
 as fitted 9 1/2" Mid. length thickness 9.19" Thickness around eye-hole 9 1/2"

Intermediate Shafts, diameter as per Rule 8.75" Thrust shaft, diameter at collars as per Rule 9.85" as fitted 9 1/2"

Tube Shafts, diameter as per Rule 10 1/4" Screw Shaft, diameter as per Rule 10 1/4" Is the { tube } shaft fitted with a continuous liner { yes }

Bronze Liners, thickness in way of bushes as per Rule 19/32" Thickness between bushes as per Rule 11/32" 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 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 —

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 yes If so, state type rubber ring Length of Bearing in Stern Bush next to and supporting propeller 3'-5"

Propeller, dia. 13'-2" Pitch 13'-3" No. of Blades 4 Material C.I. whether Moveable not Total Developed Surface 61 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 16 1/2" Can one be overhauled while the other is at work yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 16 1/2" Can one be overhauled while the other is at work yes

Feed Pumps { No. and size 1, 6"x4 1/4"x6" Pumps connected to the { No. and size 1, 9"x11"x10"; 1, 6"x4 1/4"x6" }
 How driven Steam Main Bilge Line How driven Steam Reg. by Rules 42 Comp/11

Ballast Pumps, No. and size 1, 9"x11"x10" 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 Eng. Rm. 1 @ 2 1/2" dia. Boiler Rm. 1 @ 2 1/2" dia.

In Pump Room No. 1 1 @ 3 1/2" dia. No. 2 2 @ 3" dia. In Holds, &c. —

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 5" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 4" dia. & 3" dia. 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 yes

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 both

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 none How are they protected —

What pipes pass through the deep tanks none 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 — Is it fitted with a watertight door — worked from —

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2952 3952 4

Is Forced Draft fitted yes No. and Description of Boilers 2 Vertical & 1 Horizontal Pressure 200 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes

Is the donkey boiler intended to be used for domestic purposes only no

PLANS. Are approved plans forwarded herewith for Shafting yes Main Boilers yes Auxiliary Boilers — Donkey Boilers yes

(If not state date of approval)

Superheaters — General Pumping Arrangements yes 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 —

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

W. L. Smith
 RESIDENT MANAGER.

Manufacturer.



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Lloyd's Register
Foundation

003191-003199-0157

Dates of Survey while building
During progress of work in shops - - 1941 Jan 15, 21, 22, 24, 25, 27, 28, 31, Feb 1, 2, 4, 11, 12, 19, 20, 24, 25, 26, 28, Mar 4, 5, 6, 7, 8, 10, 12, 15, 17, 18, 20, 21, 24, 25, 26, 28, Apr 1, 4, 7, 11, 15, 16, 18, 22, 24, 29, 30, May 1, 2, 3, 8, 10, 14, 15, 21, 22, 27, 30, June 11
During erection on board vessel - - -
Total No. of visits 58

Dates of Examination of principal parts—Cylinders 8, 18, 24 / 3/41 Slides 15/4/41 Covers 8, 18, 24 / 3/41
Pistons 26/3/41 Piston Rods 26/3/41 Connecting rods 17/3/41
Crank shaft 20/3/41 Thrust shaft 1/4/41 Intermediate shafts —
Tube shaft — Screw shaft 16/4/41 Propeller 16/4/41
Stern tube 22/4/41 Engine and boiler seatings 11/4/41 Engines holding down bolts 21/5/41
Completion of fitting sea connections 22/4/41
Completion of pumping arrangements 30/5/41 Boilers fixed 2/5/41 Engines tried under steam 22/5/41
Main boiler safety valves adjusted 22/5/41 Thickness of adjusting washers 15/32"
Crank shaft material Steel Identification Mark 4205 Thrust shaft material Steel Identification Mark 4627
Intermediate shafts, material — Identification Marks — Tube shaft, material — Identification Mark —
Screw shaft, material Steel Identification Mark 4628 Steam Pipes, material Steel Test pressure 600lb Date of Test 24/3/41
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 No If so, state name of vessel

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, Secretary's letters and the requirements of the Rules. Workmanship and materials are good. The machinery has been efficiently fitted in brass and tried under working conditions with satisfactory results and is eligible, in my opinion, for the

NOTATION + L.M.C. 6.41, C.L., I.S.B. 200lb, D.B. 100 lb.

L.R. Home

The amount of Entry Fee ... £ 3 : - : When applied for,
Special ... £ 49 : - : 16 JUN 1941
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19.

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 4 JUL 1941

Committee's Minute
Assigned + L.M.C. 6.41
22, C.L.