

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 12 MAR 1946

Date of writing Report 19 When handed in at Local Office 31 MAR 1946 19 Port of Hull

No. in Survey held at Beverly Hall Date, First Survey 6. 7. 45 Last Survey 18. 2. 1946
 Reg. Book (Number of Visits 51)

on the JOSENA Tons { Gross 361. Net 139.

Built at Beverly By whom built Cooke Wotton Kemmell L^y Yard No. 761 When built 1946

Engines made at Hull By whom made Charles D. Holmes L^y Engine No. 1721 When made

Boilers made at Hull By whom made Charles D. Holmes L^y Boiler No. 1721 When made

Registered Horse Power Owners The Trident Steam Fishing Co L^y Port belonging to Hull

M.N. Nom. Horse Power as per Rule 94 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES ✓

Trade for which vessel is intended Steam Tramps - Ocean Going Service

ENGINES, &c.—Description of Engines Triple Expansion Steam Reciprocating Revs. per minute 120 ✓

Dia. of Cylinders 12 1/2, 21 1/2, 35 ✓ Length of Stroke 26 ✓ No. of Cylinders 3 ✓ No. of Cranks 3 ✓

Crank shaft, dia. of journals as per Rule Appro. as fitted 7 3/8 ✓ Crank pin dia. 7 3/8 ✓ Mid. length breadth 14 ✓ Thickness parallel to axis 4 7/8 ✓

as per Rule Appro. as fitted 7 3/8 ✓ Crank webs 4 7/8 ✓ shrunk Mid. length thickness 4 7/8 ✓ Thickness around eye-hole 3 5/16 ✓

Intermediate Shafts, diameter as per Rule Appro. as fitted 7 3/8 ✓ Thrust shaft, diameter at collars as per Rule Appro. as fitted 7 3/8 ✓

Tube Shafts, diameter as per Rule Appro. as fitted 7 3/8 top of cone ✓ the tube screw shaft fitted with a continuous liner ✓

Bronze Liners, thickness in way of bushes as per Rule Appro. as fitted 9/16 ✓ Thickness between bushes as per Rule Appro. as fitted 15/32 ✓ Is the after end of the liner made watertight in the propeller boss ✓

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 at ✓

If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller 2' 11 1/2 ✓

Propeller, dia. 9' 8" ✓ Pitch 10' 4 1/2" ✓ No. of Blades 4 ✓ Material C.I. ✓ whether Moveable No ✓ Total Developed Surface 36 sq. feet

Feed Pumps worked from the Main Engines, No. One ✓ Diameter 2 3/4" ✓ Stroke 14 1/2" ✓ Can one be overhauled while the other is at work ✓

Bilge Pumps worked from the Main Engines, No. One ✓ Diameter 2 3/4" ✓ Stroke 14 1/2" ✓ Can one be overhauled while the other is at work ✓

Feed Pumps { No. and size One 2 3/4" x 14 1/2" } One 6" x 4 1/2" x 6" Pumps connected to the { No. and size One 2 3/4" x 14 1/2" } One 6" x 4 1/2" x 6" } One 3 1/2" ✓
 How driven ME ✓ Ind. Stm. ✓ Main Bilge Line { How driven ME ✓ Ind. Stm. } Bilge Ejector (St.) ✓
 also steam injector ✓

Ballast Pumps, No. and size None ✓ Lubricating Oil Pumps, including Spare Pump, No. and size None ✓

Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected both to Main Bilge Pumps and Auxiliary Bilge Pumps:—In Engine and Boiler Room ER on 2" ✓ BR on 2" ✓

In Pump Room None ✓ In Holds, &c. on 2" in each of the following spaces - fore peak room, main fish room, spare fish room, forward slushwell, aft slushwell. ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 3 1/2" ✓ Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, No. and size One 2 1/2" bilge ejector ✓

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes ✓

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. ✓

Are all Sea Connections fitted direct on the skin of the ship ✓ 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. ✓ Are the Overboard Discharges above or below the deep water line. Above ✓

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel. ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate. ✓

What Pipes pass through the bunkers Forward Bilge Suctions ✓ How are they protected Heavy woods & steel plates ✓

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. ✓

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. ✓ Is the Shaft Tunnel watertight. Part of ER. Is it fitted with a watertight door. ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record 5 ✓) Total Heating Surface of Boilers 1710 sq. ft. ✓

Which Boilers are fitted with Forced Draft None ✓ Which Boilers are fitted with Superheaters None ✓

No. and Description of Boilers One Single End Cylindrical Horizontal Working Pressure 210 lb. ✓

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 other than domestic purposes ✓

PLANS. Are approved plans forwarded herewith for Shafting 5. 3. 45 Main Boilers 24. 4. 45 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)

Superheaters ✓ General Pumping Arrangements 17. 4. 45 Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.

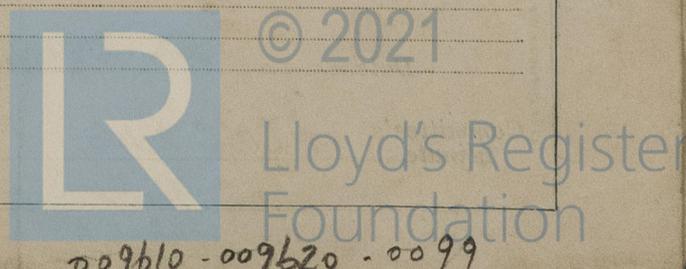
Has the spare gear required by the Rules been supplied. Yes ✓

State the principal additional spare gear supplied. Please see attached list.

The foregoing is a correct description.
 FOR CHARLES D. HOLMES & CO., LTD.

W.R. Evans
 Manager

Manufacturer.



009610-009620-0099

JOSENA

Dates of Survey while building

During progress of work in shops - - 1945. July 6, 13, 27, Aug 14, 21, 24, 29, Sept. 11, 13, 17, 18, Oct 10, 16, 22, 23, 24, 25, 31, Nov. 2, 5, 6, 7, 14, 15, 19, 21, 23, 28, 29, Dec. 4, 6, 10, 15, 22, 1946. Jan 2, 10, 11, 31,

During erection on board vessel - - 1945. Dec. 2, 1946 Jan 1, 8, 23, 24, 25, 30, Feb. 1, 4, 6, 11, 14, 18

Total No. of visits 51.

Dates of Examination of principal parts—Cylinders 9.11.45 Slides 7.11.45 Covers 2.11.45

Pistons 2.11.45 Piston Rods 5.11.45 Connecting rods 14.11.45

Crank shaft 7.11.45 Thrust shaft 22.10.45 Intermediate shafts 22.10.45

Tube shaft ✓ Screw shaft 23.10.45 Propeller 23.10.45

Stern tube 2.12.45 Engine and boiler seatings 8.1.46. Engines holding down bolts 1.2.46.

Completion of fitting sea connections 2.12.45

Completion of pumping arrangements 6.2.46. Boilers fixed 24.1.46. Engines tried under steam 6/2/46 18/2/46.

Main boiler safety valves adjusted 6/2/46. Thickness of adjusting washers P x 5 1/32

Crank shaft material F.I. STL. Identification Mark B 5640, CP, 29.7.45.4932 Thrust shaft material B 5603, CP, 17.7.45 Identification Mark

Intermediate shafts, material D^o Identification Marks WSS. 22-10-45. Tube shaft, material - Identification Mark -

Screw shaft, material D^o Identification Mark WSS 23/10/45. Steam Pipes, material Steel Test pressure 630 lb. Date of Test 4.2.46.

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 ✓

Is this machinery duplicate of a previous case. Yes ✓ If so, state name of vessel 'Navena' Hull No. 53310

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

This vessel's machinery has been built and installed under Special Survey in accordance with the Society's Rules and Regulations and with the Secretary's letters. The workmanship and materials are good.

The machinery has been tried under working condition with satisfactory results. Eligible in my opinion to be recorded in the Register Book

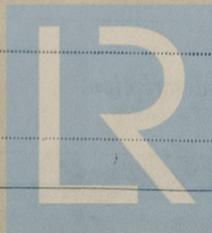
* LMC 2.46. C.L. T 3 Cy. 12 1/2", 21 1/2", 35" - 26" 210 lb. 94 MN.
 ISB 3 cf GS. 52 φ HS 1710 φ.

The amount of Entry Fee ... £ 2 : 0 : } When applied for,
 Special + LMC ... £ 23 : 10 : } 11 MAR 1946
 Donkey Boiler Fee ... £ : : } When received,
 Travelling Expenses (if any) £ : : } 10

W.S. Shields
 Engineer Surveyor to Lloyd's Register of Shipping.

Date FRI. 22 MAR 1946

Committee's Minute + LMC 2.46.
 C.L.



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