

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 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 George Weller & Co. Ld. Yard No. 761 When built 1946

Engines made at Hull By whom made Charles D. Holmes Ld. Engine No. 1721 When made

Boilers made at Hull By whom made Charles D. Holmes Ld. Boiler No. 1721 When made

Registered Horse Power Owners The Trident Steam Fishing Co. Ld. 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 Tramp - Ocean Going Service

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

Dia. of Cylinders 12½, 21½, 35 Length of Stroke 26 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule Appro. 7¾ Crank pin dia. 7¾ Mid. length breadth 14 Thickness parallel to axis 4½ ✓
as fitted 7¾ Crank webs 4½ shrunk Thickness around eye-hole 3½ ✓

Intermediate Shafts, diameter as per Rule Appro. 7½ Thrust shaft, diameter at collars as per Rule Appro. 7¾
as fitted 7½

Tube Shafts, diameter as per Rule Appro. Screw Shaft, diameter as per Rule Appro. 7½ top of cone Is the tube screw shaft fitted with a continuous liner? Yes

Bronze Liners, thickness in way of bushes as per Rule Appro. 9/16 Thickness between bushes as per Rule Appro. 15/32 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 at? ✓

If so, state type Length of Bearing in Stern Bush next to and supporting propeller 2' 11½ ✓

Propeller, dia. 9' 8" Pitch 10' 4½ 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 2¾ Stroke 14½ Can one be overhauled while the other is at work? ✓

Bilge Pumps worked from the Main Engines, No. One Diameter 2¾ Stroke 14½ Can one be overhauled while the other is at work? ✓

Feed Pumps { No. and size One 2¾ x 14½ } One 6" x 4½ x 6" Pumps connected to the { No. and size One 2¾ x 14½ } One 6" x 4½ x 6" } One 3½" ✓
How driven ME Ind. Stm. Main Bilge Line How driven ME Ind. Stm. Bilge Ejector (St.)

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. One 2" in each of the following spaces - fore hold room, main fish room, spar fish room, forward slushwell, aft slushwell.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 3½ Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, No. and size One 2½ bilge ejector ✓

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? Above ✓

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 Forward Bilge Suctions How are they protected Heavy wools & 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? 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? 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.



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Lloyd's Register
Foundation

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 16, 18, 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 2. 12. 45 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 CP 29. 7. 45. 4932 } R 5603, CP 17. 7. 45

Intermediate shafts, material DO. Identification Mark CP 22. 7. 45. Thrust shaft material 22. 10. 45. WSS. Identification Mark

Screw shaft, material DO. Identification Mark WSS 23/10/45. Tube shaft, material - Identification Mark -

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 M.N.

ISB 3 cf GS. 52 cf HS 1710 cf.

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

Date FRI. 22 MAR 1946

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

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



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