

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 1-MAY 1942

Date of writing Report 9th APRIL 1942 When handed in at Local Office 9th APRIL 1942 Port of PLYMOUTH.

No. in Survey held at PLYMOUTH Date, First Survey 8th JULY 1941 Last Survey 25th NOVEMBER 1941
 Reg. Book. 5129 on the S.S. "MARI II" (Number of Visits 20) Tons { Gross 1395
 Net 811

Built at Haarlem By whom built N.V. Werf Konrad Yard No. ✓ When built 1918

Engines made at Hengelo By whom made Subr Stok & Co Engine No. ✓ when made 1918

Boilers made at -do- By whom made -do- Boiler No. ✓ when made 1918

INDICATED Registered Horse Power 900 Owners Ministry of War Transport Port belonging to Glasgow
 (W.C. Lawson Mgr)

Nom. Horse Power as per Rule 133 118 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES

Trade for which Vessel is intended General Cargo

ENGINES, &c.—Description of Engines Triple Expansion Three Cylinders Revs. per minute 96

Dia. of Cylinders 17³/₄ - 28⁸/₈ - 47⁴/₄ Length of Stroke 35⁷/₁₆ No. of Cylinders THREE No. of Cranks THREE

Crank shaft, dia. of journals as per Rule 10¹³/₁₆ as fitted 10¹³/₁₆ Crank pin dia. 10¹³/₁₆ Crank webs Mid. length breadth 19⁵/₁₆ Thickness parallel to axis shrunk
 Mid. length thickness 6⁵/₁₆ Thickness around eye-hole

Intermediate Shafts, diameter as per Rule 9³/₁₆ as fitted 9³/₁₆ Thrust shaft, diameter at collars as per Rule 10¹³/₁₆ as fitted 10¹³/₁₆

Tube Shafts, diameter as per Rule ✓ as fitted ✓ Screw Shaft, diameter as per Rule 11¹/₁₆ as fitted 11¹/₁₆ Is the { tube } shaft fitted with a continuous liner { screw } YES

Bronze Liners, thickness in way of bushes as per Rule 5⁸/₁₆ as fitted 5⁸/₁₆ Thickness between bushes as fitted 5⁸/₁₆ 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 NO Length of Bearing in Stern Bush next to and supporting propeller 44⁹/₁₆

Propeller, dia. 11' 9" Pitch ✓ No. of Blades 4 Material Cast Iron whether Moveable NO Total Developed Surface sq. feet

Feed Pumps worked from the Main Engines, No. TWO Diameter 2¹⁵/₁₆" Stroke 17²³/₃₂ Can one be overhauled while the other is at work NO

Bilge Pumps worked from the Main Engines, No. TWO Diameter 3¹/₁₆" Stroke 17²³/₃₂ Can one be overhauled while the other is at work NO

Feed Pumps { No. and size TWO - 5³/₄ x 4¹/₂ x 8" (Horizontal) Pumps connected to the { No. and size TWO MAIN ENGS & ONE - 5³/₄ x 4¹/₂ x 8" Main Bilge Line { How driven STEAM How driven STEAM

Ballast Pumps, No. and size ONE - 5³/₄ x 4¹/₂ x 8" (Horizontal) 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 3 @ 2³/₄" in E.R. and 2 @ 2³/₄" in Boiler Room.

In Holds, &c. 2 @ 2³/₄" in N^o 1; 2 @ 2³/₄" in N^o 2; 2 @ 2³/₄" in N^o 3; 1 @ 2³/₄" in N^o 4; 1 @ 2³/₄" in TUNNEL WELL

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 8" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 2³/₄" 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 stakehold 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 NONE How are they protected ✓

What pipes pass through the deep tanks ✓ 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 YES worked from TOP PLATFORM.

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 1560 #

Is Forced Draft fitted No No. and Description of Boilers 2 S.B. Working Pressure 160 lbs #

IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? ✓

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

Superheaters ✓ General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—

1 complete Bottom End Bearing. 1 complete Top End Bearing.

1 set of Feed & Bilge Pump Valves & Gears. 1 set of Valves for Water End of Independent Pumps

1 set of Air Pump Valves. 2 Valve lids for Main Feed Check Valves. 1 set of Rings for A.P. Piston

12 Boiler Tube Stoppers. One set of tire bars for one furnace.

a quantity of assorted Bolts, Studs & Nuts.

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

010982-010991-0070

Date of writing

No. in Reg. Book.

28129 on

Master

Engines made

Boilers made
Name Registered

MULTIPLE

(Letter for

Boilers

No. of Cert

safety valves

Are they fitted

Smallest dia

Material of

Descrip. of

Cap of plates

rules

boiler

Description

plates: Ma

Top 6 3/4 X

smallest part

Pitch of st

Area suppo

Lower back

Pitch of tw

water space

girder at ce

Working pr

Diameter

Pitch of riv

SUPERH

Date of Test

Diameter of

Dates of Survey while building

GENER.

The
to be

Survey

Travelli

Committe

Assigned

During progress of work in shops - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____
 Pistons _____ Piston Rods _____ Connecting rods _____
 Crank shaft _____ Thrust shaft _____ Intermediate shafts _____
 Tube shaft _____ Screw shaft _____ Propeller _____
 Stern tube _____ Engine and boiler seatings _____ Engines holding down bolts _____
 Completion of fitting sea connections _____
 Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____
 Main boiler safety valves adjusted _____ Thickness of adjusting washers _____
 Crank shaft material _____ Identification Mark _____ Thrust shaft material _____ Identification Mark _____
 Intermediate shafts, material _____ Identification Marks _____ Tube shaft, material _____ Identification Mark _____
 Screw shaft, material FORGED IRON Identification Mark 1894-41 Steam Pipes, material STEEL Test pressure 350 LBS Date of Test 6-10-41
 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 If so, have the requirements of the Rules been complied with
 Is this machinery duplicate of a previous case If so, state name of vessel

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

The Machinery of this Vessel is in a good and efficient condition, and eligible in my opinion to be classed with notations L.M.C. 11, 41 and I.S. CLN 10, 41

Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute(s).

The amount of Entry Fee ... £	<input checked="" type="checkbox"/>	:	When applied for,
Special ...	£ 20-0-0	-	11-3-1942
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	<input checked="" type="checkbox"/>	:	4-4-1942

Allen
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 23 JUN 1942
L. No. 11. 41 Subject
J(CX) N. 10. 41
 Assigned

