

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19... When handed in at Local Office 11 MAY 1948 19... Port of **NEWCASTLE-ON-TYNE**
 No. in Survey held at **Blyth** Date, First Survey **25th March 1948** Last Survey **13th April 1948**
 Reg. Book **38711** on the **steel s.s. steamer 'WATSON FERRIS'** (Number of Visits **10**)
 Built at **Superior, Wisconsin** By whom built **Walter Butler Shipbuilders, Inc.** Yard No. **115** When built **1943**
 Engines made at **Menominee, Mich. U.S.A.** By whom made **Prescott Company** Engine No. ... When made **1943**
 Boilers made at **Saginaw, U.S.A.** By whom made **Wicks Boilers Co** Boiler No. ... When made ...
 Registered Horse Power **1300** Owners **Ministry of Transport, on bareboat charter from U.S.M.C.** Port belonging to **London**
~~Non-Registered~~ Horse Power as per Rule **330** Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **Yes**
 Trade for which vessel is intended **Baltic - coasting.**

ENGINES, &c.—Description of Engines **Triple expansion** Revs. per minute **80**
 Dia. of Cylinders **19"; 32"; 56"** Length of Stroke **36"** No. of Cylinders **3** No. of Cranks **3**
 Crank shaft, dia. of journals as per Rule **10.45"** as fitted **10.75"** Crank pin dia. **11 1/4"** Mid. length breadth Crank webs
 Intermediate Shafts, diameter as per Rule **9.94"** as fitted **10.0"** Thrust shaft, diameter at collars as per Rule **10.45"** as fitted **10.75"**
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule **not branned** Is the tube screw shaft fitted with a continuous liner
 Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted 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
 Propeller, dia. **13.5 ft.** Pitch **16.875 ft.** No. of Blades **4** Material **MAN-BRONZE** whether Moveable **No** Total Developed Surface sq. feet
 Feed Pumps worked from the Main Engines, No. **none** Diameter Stroke Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. **none** Diameter Stroke Can one be overhauled while the other is at work
 Feed Pumps { No. and size **3 - { 7x10x12, 6x9x12, 6x8x12 }** Pumps connected to the Main Bilge Line { No. and size **3 @ 2 @ 7 1/2" x 8 1/2" x 10" & 1 @ 5x10x12** How driven **Steam**
 Ballast Pumps, No. and size **2 @ 7 1/2" x 8 1/2" x 10"** 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 **5 i.e. 4 @ 2 1/2" & 1 @ 2"**
 In Pump Room In Holds, &c. **2 @ 3" in fore hold; 1 @ 3" in aft hold**
 Main Water Circulating Pump Direct Bilge Suctions, No. and size **1 - 8" dia** Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, No. and size **2 @ 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. **no (stumps)**
 Are all Sea Connections fitted direct on the skin of the ship **no** Are they fitted with Valves or Cocks **Valves**
 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 valves fitted with a spigot and brass covering plate **no**
 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 **Yes** Is it fitted with a watertight door **Yes** worked from **Upper decks**

MAIN BOILERS, &c.—(Letter for record ...) Total Heating Surface of Boilers **4800 sq. ft. + 82 sq. ft.**
 Which Boilers are fitted with Forced Draft **Both - Induced** Which Boilers are fitted with Superheaters **Both**
 No. and Description of Boilers **2 - Watertube - 3 drum type** Design Working Pressure **250 lbs/sq. in.**
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 Main Boilers Auxiliary Boilers Donkey Boilers
 Superheaters General Pumping Arrangements 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.

Manufacturer.



© 2020

Lloyd's Register Foundation

W1029-0069

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits 10

1948 MAR. 25, 31, APRIL 1, 2, 5, 6, 7, 8, 9, 13

Date of writing
 No. in Reg. Bk. 35711

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 ✓ Boilers fixed ✓ Engines tried under steam ✓
 Completion of pumping arrangements ✓ Thickness of adjusting washers ✓
 Main boiler safety valves adjusted ✓
 Crank shaft material ✓ Identification Mark ✓ Thrust shaft material ✓ Identification Mark ✓
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material ✓ Test pressure ✓ Date of Test ✓
 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.....If so, state name of vessel ✓

Built at
 Engines made
 Boilers made
 Nominal Horsepower
WATER
 Date of Approval
of Boilers
 No. of Certificates
 Is forced draught
 No. and type of
 each boiler.
 Are they fitted
 Smallest diameter
Steam Drums
 Range of Temperature
 Cir. seams
 Lap of plates
 Diameter of
 Working pressure
 Radius or height
 in each boiler
 welded or flanged
 long. seams
 Percentage
 Percentage
 Tensile strength
 Size of material
 Material
 Thickness
 Inside diameter
 Description
 butt straps
 Working pressure
 Thickness
SUPER
 Thickness
 or flanged
 long. seams
 Percentage
 Percentage
 Thickness
 Working pressure
 Date of Test
 No. and diameter
 Pressure to
 Spare Capacity

General Remarks (State quality of workmanship, opinions as to class, &c. *For the information of the Committee*)

Certificate to be sent to

The amount of Entry Fee	£	:	:	When applied for,
Special LICENCE SUPERVISION	£	:	:	19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	19

J. Bouman
Engineer Surveyor to Lloyd's Register of Shipping.

Date *FRI. 4 JUN 1948*

Committee's Minute *LMC 4,48 Subject F.D. 2 WTIB 2506 (Spt 22011)*



Dates of Survey while building
 Is this boiler
GENER
 Survey
 Travel
 Commit
 Assigne