

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 17-AUG-1942

Date of writing Report 7th June 1942 When handed in at Local Office 1942 Port of Portland, Maine (New York)

No. in Survey held at South Portland, Maine, U.S.A. Date, First Survey 5th August, 1941 Last Survey 20th May 1942

Reg. Book. on the "OCEAN HOPE" (Number of Visits) Tons Gross 7173 Net 4278

Built at So. Portland, Maine By whom built Todd-Bath Iron Shipbuilding Corp. Yard No. 7 When built 1942-5

Engines made at Hamilton, Ohio By whom made General Machinery, Corp. Engine No. 6552 When made 1942-5

Boilers made at Schenectady, N. Y. By whom made American Locomotive, Corp. Boiler No. S63,64,83 When made 1941

Registered Horse Power Owners British Ministry of War Transport Port belonging to London

Nom. Horse Power as per Rule 505 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Carrying Dry & Perishable Cargo.

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 76

Dia of Cylinders 24 1/2 x 37" x 70" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 13.97" Crank pin dia. 14 1/4" Mid. length breadth 29-5/8" Thickness parallel to axis 9"

Intermediate Shafts, diameter as per Rule 13.32" Thrust shaft, diameter at collars as per Rule 13.97" Thickness around eye-hole 7 5/8"

Tube Shafts, diameter as per Rule None Screw Shaft, diameter as per Rule 14.86" Is the screw shaft fitted with a continuous liner X

Bronze Liners, thickness in way of bushes as per Rule .75" Thickness between bushes as per Rule .56" Is the after end of the liner made watertight in the propeller boss Yes

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 Tight fit.

If two liners are fitted, is the shaft lapped or protected between the liners X Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft No

Propeller, dia. 18.6" Pitch 16.0" No. of Blades 4 Material whether Moveable No Total Developed Surface 117 sq. ft.

Feed Pumps worked from the Main Engines, No. None Diameter X Stroke X Can one be overhauled while the other is at work X

Bilge Pumps worked from the Main Engines, No. Two Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes

Feed Pumps (No. and size Two 12"x8"x24" One 9x6x10" Pumps connected to the Main Bilge Line No. and size 2 @ 4 1/2" x 26" and One Duplex 10"x11"x12"

How driven Steam Main Engine Steam How driven Main Engine Steam

Ballast Pumps, No. and size One 10"x11"x12" (Duplex) Lubricating Oil Pumps, including Spare Pump, No. and size None

Are two independent means arranged for circulating water through the Oil Cooler X Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 5 @ 3" 1 portable hose connection 2 1/2"

In Pump Room X In Holds, &c. 2 @ 3" in each hold, 1 @ 5" in each deep tank.

(main bilge line size)

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 10" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 5"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes No. Strainers on Bilge Wells. 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 Below

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 No

What Pipes pass through the bunkers Bilge & Ballast Pipes How are they protected Strong wood casings.

What pipes pass through the deep tanks None Have they been tested as per Rule X

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 No worked from X

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7140 sq. feet.

Which Boilers are fitted with Forced Draft 3 main Which Boilers are fitted with Superheaters 3 main

No. and Description of Boilers 3 Multitubular Scotch Marine Working Pressure 220 lb. per sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

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

Can the donkey boiler be used for domestic purposes only X

PLANS. Are approved plans forwarded herewith for Shafting 22/8/41 Main Boilers 28/4/41 Auxiliary Boilers X Donkey Boilers X

(If not state date of approval) Superheaters 5/11/41 General Pumping Arrangements 5&22/9/41 & 1/10/43 Oil fuel Burning Piping Arrangements Coal fired

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied 1 main Bearing complete, 1 Spare Propeller.

The foregoing is a correct description

Carl P. Kelgaard

TODD-BATH IRON SHIPBUILDING CORP.

Manufacturer.



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Lloyd's Register Foundation

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

Continuous attendance from 5th August 1941 until 20th May 1942.

Dates of Examination of principal parts — Cylinder December 19, 1941 Slides December 19, 1941 Covers December 19, 1941
 Pistons December 19, 1941 Piston Rods December 19, 1941 Connecting rods December 19, 1941
 Crank shaft December 19, 1941 Thrust shaft December 9, 1941 Intermediate shafts March 6, 8, 10, 13 & 16, 1942
 Tube shaft None Screw shaft May 27, 1941 Propeller November 24th, 1941
 Stern tube March 7, 1942 Engine and boiler seatings April 17, 1942 Engines holding down bolts April 17, 1942
 Completion of fitting sea connections March 21, 1942.
 Completion of pumping arrangements May 8, 1942 Boilers fixed April 17, 1942 Engines tried under steam May 17, 1942.
 Main boiler safety valves adjusted May 7, 1942 Thickness of adjusting washers No washers Lock nuts.
 Crank shaft material O.H. Steel Identification Mark Lloyd's A.J. Dec. 19, 1941 Thrust shaft material O.H. Steel Identification Mark Lloyd's A. Dec. 9, 1941
 Intermediate shafts, material O.H. Steel Identification Marks Lloyd's 3874, 3875, 4503, 3888, 3949, 3893 Shaft, material x Identification Mark x
 Screw shaft, material O.H. Steel Identification Mark Lloyd's 3702 Steam Pipes, material S.D. Steel Test pressure 660 lbs. Date of Test April 18, 1942
 Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. x
 Have the requirements of the Rules for the use of oil as fuel been complied with x
 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 x
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with x

Is this machinery duplicate of a previous case Yes If so, state name of vessel "OCEAN VANGUARD, "OCEAN LIBERTY", ETC
 General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under Special Survey as stated in New York Report No. 41937, S63, 64, 83 attached thereto. The machinery has been fitted on board the vessel in accordance with the Rules and approved plans and been tried under full working conditions with good results.
 In our opinion, the machinery of this vessel is in good and safe working condition and is eligible to be classed with records of L.M.C. 5.42 and tail shaft seen C.L. with notation 3 S.B. (Spt.) H.S. 7140 G.S. 172, 220 lbs. F.D. 9 c.f.

The amount of Entry Fee 30: Inclusive fee to be charged London 250-0-0
 Special ... 912.34
 Donkey Boiler Fee ...
 Travelling Expenses (if any) £ :
 When applied for, 19
 When received, 19

[Signature] & [Signature]
 Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JUL 8 1942

Assigned + LMC 5.42

Note:
 CL
 3 SB (Spt) 220 lbs 0

