

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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No. in Survey held at PORTLAND, OREGON Date, First Survey March 3rd Last Survey April 1 19 47
 Reg. Book. (Number of Visits 6)

76450 on the "THEMONI" (ex "JOSIAH COHEN") Tons { Gross 7198
 Net 4364

Built at Savannah, Georgia By whom built Southeastern Shipbuilding Corp. Yard No. --- When built 1944

Engines made at Hamilton, Ohio By whom made General Machinery Corp. Engine No. 7996 When made 1944
 Port 8391

Boilers made at Springfield, Ohio By whom made Springfield Boiler Co. Boiler No. Stbd. 8392 When made 1944

Registered Horse Power Owners Kassos Steam Navigation Co. Ltd. Port belonging to Cyra, Greece

Nom. Horse Power as per Rule 648 667 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Foreign

ENGINES, &c. Description of Engines 3 Cyl. Triple Revs. per minute

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

Crank shaft, dia. of journals as per Rule 13.125 Crank pin dia. 14 1/4" Crank webs Mid. length breadth 24" Thickness parallel to axis 9" LP 9 1/2"
 as fitted 14 1/2" Mid. length thickness 9" LP 9 1/2" shrunk Thickness around eye-hole 7-5/8" @ Journals

Intermediate Shafts, diameter as per Rule 12.5" Thrust shaft, diameter at collars as per Rule 13.125
 as fitted 13-1/2" as fitted 14-1/4"

~~Tube Shafts~~ Screw Shaft, diameter as per Rule 14" Is the ~~tube~~ screw shaft fitted with a continuous liner? Yes
 as fitted 15 1/4"

Bronze Liners, thickness in way of bushes as per Rule 3/4" Thickness between bushes as per Rule 9/16" Is the after end of the liner made watertight in the propeller boss Yes
 as fitted 25/32" as fitted 11/16" If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner x

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 x

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 If so, state type Length of Bearing in Stern Bush next to and supporting propeller 5-6"

Propeller, dia. 18'-6" Pitch 16'-0" No. of Blades 4 Material Bronze Whether Moveable Solid Total Developed Surface 117 sq. feet

Feed Pumps worked from the Main Engines, No. x Diameter x Stroke x Can one be overhauled while the other is at work x

Bilge Pumps worked from the Main Engines, No. 2 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" Pumps connected to the { No. and size 2 - 4 1/2" Dia. x 26" Stroke One 10x12x12 Duplex
 How driven Steam Main Bilge Line How driven Attached Main Engines Link Motion Steam

Ballast Pumps, No. and size One 10"x12"x12" Duplex Lubricating Oil Pumps, including Spare Pump, No. and size x

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 1-3" Port & Stbd. in ER 1-3" Port & Stbd. in Boiler Room - Total 4
 In Pump Room x In Holds, &c. 3" Port & Stbd. in all holds and tunnel

4" Main from Valve Manifold in ER

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 10" Dia. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 - 1 Port 1 Stbd. 5" 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

Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Valves and cocks

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 Yes

What Pipes pass through the bunkers now How are they protected

What pipes pass through the deep tanks now 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 Both Sides

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 10233 sq. ft. Boiler = 9704
 Sps = 539

Is Forced Draft fitted Yes No. and Description of Boilers Both Mains Working Pressure 240 lbs. per sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES WP 250 SPT 23016

IS A DONKEY BOILER FITTED? NO If so, is a report now forwarded? x J Run

Is the donkey boiler intended to be used for domestic purposes only x

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

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

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.



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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 _____ Identification Mark _____ Steam Pipes, material _____ Test pressure _____ Date of Test _____
 Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes
 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 _____
 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 all Liberty Type (EC?)

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under the Special Survey of the American Bureau of Shipping. The particulars as shown on this Report were obtained from available plans and have been verified as far as practicable from the vessel. The workmanship and materials are good. (See Rpt. 9, attached herewith for recommendations).

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

The amount of Entry Fee ... £	:	:	When applied for,
Machinery & Boilers	:	\$415.00	April 4th 47
Special ... £	:	: 19.....
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	: 19.....

(SIGNED) James F. Robertson
 Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK MAY 28 1947

Committee's Minute
 Assigned LMC-4,47.

