

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 10 APR 1942

Date of writing Report September 27 1941 When handed in at Local Office _____ 19 _____ Port of New York.

No. in Survey held at Hamilton, Ohio. Date, First Survey March 17th 1941 Last Survey September 25th 1941

Reg. Book. _____ (Number of Visits _____)

on the Todd-California Shipbuilding Corp. Hull. Tons ^{Gross} _____ _{Net} _____

Built at Richmond, Calif. By whom built Todd-California Shipbuilding Corp. Yard No. _____ When built 1941

Engines made at Hamilton, Ohio. By whom made General Machinery Corp. Engine No. 6525 When made 1941

Boilers made at Not known By whom made Not known Boiler No. _____ When made _____

Registered Horse Power _____ Owners British Government. Port belonging to _____

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 Freighter.

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

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 1/2" Crank webs Mid. length breadth 29 1/2" Thickness parallel to axis 9"

as fitted 14 1/2" Mid. length thickness 9" Thickness around eye-hole 7 1/2"

Intermediate Shafts, diameter as per Rule _____ as fitted Fitted at Shipyard Thrust shaft, diameter at collars as per Rule 13.97" as fitted 14 1/2"

Tube Shafts, diameter as per Rule _____ as fitted None Screw Shaft, diameter as per Rule _____ as fitted Fitted at Shipyard Is the ^{tube} screw shaft fitted with a continuous liner Yes.

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 _____

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 _____ If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller _____

Propeller, dia. _____ Pitch _____ No. of Blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. ft.

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. 2 Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes.

Feed Pumps { No. and size _____ How driven Fitted at Shipyard Pumps connected to the Main Bilge Line { No. and size _____ How driven Fitted at Shipyard.

Ballast Pumps, No. and size Fitted at Shipyard 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 _____ In Pump Room _____ In Holds, &c. _____

Main Water Circulating Pump Direct Bilge Suctions, No. and size _____ Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size _____

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes _____

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 _____ Are they fitted with Valves or Cocks _____

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Overboard Discharges above or below the deep water line _____

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____

What Pipes pass through the bunkers _____ 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 _____

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 _____ Is the Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

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

Which Boilers are fitted with Forced Draft _____ Which Boilers are fitted with Superheaters _____

No. and Description of Boilers _____ Working Pressure _____

IS A REPORT ON MAIN BOILERS NOW FORWARDED? No.

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

Can the donkey boiler be used for domestic purposes only _____

PLANS. Are approved plans forwarded herewith for Shafting Crank Shaft Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____

(If not state date of approval) April 8th 1941

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 1 Main Bearing (2 halves)

The foregoing is a correct description

Manufacturer.

[Handwritten Signature]
[Handwritten Signature]
 The General Truck Corp

March 17th. 1941. Continuous attendance until shipment.

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

Dates of Examination of principal parts — Cylinders September 24-1941 Slides September 24-1941 Covers September 24-1941
Pistons September 24-1941 Piston Rods September 24-1941 Connecting rods September 24-1941
Crank shaft September 24-1941 Thrust shaft August 22-1941 Intermediate shafts Made at Shipyard.
Tube shaft None Screw shaft Made at Shipyard Propeller Made at Shipyard.
Stern tube Made at Shipyard Engine and boiler seatings Made at Shipyard Engines holding down bolts Made at Shipyard.
Completion of fitting sea connections Shipyard
Completion of pumping arrangements Shipyard Boilers fixed Shipyard Engines tried under steam Shipyard.
Main boiler safety valves adjusted Shipyard Thickness of adjusting washers Shipyard.
Crank shaft material O.H. Steel Identification Mark ^{LLOYDS} SEPT. 24-41. Thrust shaft material O.H. Steel Identification Mark ^{LLOYDS} AUG. 22. 1941
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 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
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 Todd-California S. B. Co. No. 1.
General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine has been built under Special Survey in accordance with the Rules and approved plans. The workmanship and material are good. The steel forgings & castings have been tested in accordance with the Rules.

The engine has been shipped to Richmond, Calif. to be fitted on board the vessel, and when this has been done to the satisfaction of the Surveyor in accordance with the Rules, it will be eligible in my opinion, to receive the notation \oplus L. M. C. with date in the Register Book.

The amount of Entry Fee ... £ : :
Special ... £ 83 - 6 - 8 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 28/3/1942
When received, 19

Alex. James.
Engineer Surveyor to Lloyd's Register of Shipping.

NEW YORK FEB 11 1942 J.E.J

Committee's Minute
Assigned See Richmond Rpt. NO. 6.



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