

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Writing Report October 6th. 1941 When handed in at Local Office 19 Port of New York

Survey held at Hamilton, Ohio. Date, First Survey March 17th. 1941 Last Survey October 4th. 1941

Book. on the Todd-California Shipbuilding Corp. Hull. (Number of Visits.....)

at Richmond, Calif. By whom built Todd-California Shipbuilding Corp. Yard No. Tons Gross Net When built 1941

es made at Hamilton, Ohio. By whom made General Machinery Corp. Engine No. 6528 When made 1941

rs made at Not known By whom made Not known Boiler No. When made

tered Horse Power Owners British Government. Port belonging to

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

for which Vessel is intended Freighter.

GINES, &c.—Description of Engines		Triple Expansion		Revs. per minute	
27th, of	Cylinders $24\frac{1}{2} \times 37 \times 70$	Length of Stroke 48"	No. of Cylinders 3	No. of Cranks 3	
LOYD'S	shaft, dia. of journals as per Rule 13.97"	Crank pin dia. 14"	Mid. length breadth 29"	Thickness parallel to axis 9"	
Sept.	as fitted 14"	Crank webs	Mid. length thickness 9"	Thickness around eye-hole 7"	
	mediate Shafts, diameter as per Rule	as fitted Fitted at Shipyard	Thrust shaft, diameter at collars as per Rule 13.97"	as fitted 14"	
st Jan.	Shafts, diameter as per Rule	as fitted None	Screw Shaft, diameter as per Rule	as fitted Fitted at Shipyard	Is the {tube} shaft fitted with a continuous liner {screw} Yes.
	ze 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
	ller boss	If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner			
	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				
	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		
	If so, state type		Length of Bearing in Stern Bush next to and supporting propeller		
"", "0	eller, dia.	Pitch	No. of Blades	Material	whether Moveable
4, 5, 6	Pumps worked from the Main Engines, No. None	Diameter	Stroke	Can one be overhauled while the other is at work	
	Pumps worked from the Main Engines, No. 2	Diameter 4"	Stroke 26"	Can one be overhauled while the other is at work	Yes.
and Los	1 {No. and size	Fitted at Shipyard	Pumps connected to the Main Bilge Line	No. and size	Fitted at Shipyard.
	ps {How driven			How driven	
essel	st Pumps, No. and size	Fitted at Shipyard	Lubricating Oil Pumps, including Spare Pump, No. and size		
result	two independent means arranged for circulating water through the	Oil Cooler	Suctions, connected to both Main Bilge Pumps and Auxiliary		
	Pumps; In Engine and Boiler Room				
	mp Room		In Holds, &c.		

Water Circulating Pump Direct Bilge Suctions, No. and size		Independent Power Pump Direct Suctions to the Engine Room Bilges,	
nd size	Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes		
be 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			
ll Sea Connections fitted direct on the skin of the ship	Are they fitted with Valves or Cocks		
hey 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		
hey 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		
Pipes pass through the bunkers	How are they protected		
pipes pass through the deep tanks	Have they been tested as per Rule		
ll Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times			
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			
artment to another	Is the Shaft Tunnel watertight	Is it fitted with a watertight door	worked from

IN BOILERS, &c.— (Letter for record.....) Total Heating Surface of Boilers.....
 ch Boilers are fitted with Forced Draft..... Which Boilers are fitted with Superheaters.....
 and Description of Boilers..... Working Pressure.....
A REPORT ON MAIN BOILERS NOW FORWARDED? *No.*
A DONKEY BOILER FITTED?..... If so, is a report now forwarded?.....
 be donkey boiler be used for domestic purposes only.....
ANS. Are approved plans forwarded herewith for Shafting *Crank Shaft* Main Boilers..... Auxiliary Boilers..... Donkey Boilers.....
 (If not state date of approval) *April 8th. 1941*
 heaters..... General Pumping Arrangements..... Oil fuel Burning Piping Arrangements.....

SPARE GEAR.

the spare gear required by the Rules been supplied Yes. ✓
the principal additional spare gear supplied 1 Main Bearing (2 Halves)

The foregoing is a correct description

Manufacturer.

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LLOYD'S

Brusselge Kring
Gulden Mech Corp

003631-003639-0214

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

March 17th. 1941. Continuous attendance until shipment.

Dates of Examination of principal parts—Cylinders October 4th. 1941 Slides October 4th. 1941 Covers October 4th. 1941

Pistons October 4th. 1941 Piston Rods October 4th. 1941 Connecting rods October 4th. 1941

Crank shaft October 4th. 1941 Thrust shaft September 11th. 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 OCT. 4. 41. Thrust shaft material O. H. Steel Identification Mark SEPT.

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. Corp. No. —

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

This engine has been built under Special Survey in accordance with the Rules & approved, the workmanship and material are good. The forgings and steel 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 done to the satisfaction of the Surveyor in accordance with the Rules, it will be eligible, in my opinion, to receive the notation + L. M. C. with date in the Register Book.

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	<u>X</u>	£	<u>335.83</u>	:	When applied for,
Special	...	£	:	:	<u>Mar 1942</u>
Donkey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	<u>19</u>

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

Committee's Minute

NEW YORK MAR 18 1942

Assigned See Richmond Rpt. No. 9.



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Foundation