

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

Date of writing Report 19... When handed in at Local Office 9th April 1948 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey see Rpt 9 Last Survey 19...
 Reg. Book 22215 on the S.S. CYRUS SEARS
 Built at San Francisco Calif By whom built Pacific Bridge Co Yard No. When built 1943
 Engines made at Alameda Calif By whom made Pacific Bridge Co Engine No. When made
 Boilers made at Saginaw Michigan By whom made The Wickers Boilers Co Boiler No. When made
 Registered Horse Power Owners Ministry of Transport Port belonging to
 Nom. Horse Power as per Rule MN 330 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which vessel is intended

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 3/4" Crank pin dia. 11 1/4" Mid. length breadth 23" HP=6" MP=7" LP=7 1/2" Thickness parallel to axis MP=7 1/2" LP=7 3/4" Thickness around eye-hole 5.875"
 Intermediate Shafts, diameter as per Rule 9.94" as fitted 10" Thrust shaft, diameter at collars as per Rule 10.45" as fitted 10 3/4"
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule Not drawn Is the { tube } shaft fitted with a continuous liner { screw }

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

Propeller, dia. 13' 6" Pitch 16.875' No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface sq. feet

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

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

Feed Pumps { No. and size 2 of 10" x 7" x 12" + 1 of 9" x 6" x 12" Pumps connected to the { No. and size 2 of 7 1/2" x 8 1/2" x 10" + 1 of 5" x 10" x 12" How driven Steam Main Bilge Line How driven Steam

Ballast Pumps, No. and size 2 of 7 1/2" x 8 1/2" x 10" 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 aft E.R. 2 of 2 1/2", for E.R. 2 of 3 1/2", thrust recess 1 of 2 1/2", Tunnel well 1 of 3"

In Pump Room In Holds, &c. No 1 hold (aft) 2 of 3", No 2 hold (aft) 2 of 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 of 8" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 of 3 1/2"

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 yes

Are all Sea Connections fitted direct on the skin of the ship welded to ship's skin 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 steel plate

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 welded

What Pipes pass through the bunkers. None 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 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

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 4800 sq ft + 82 sq ft for superheater

Which Boilers are fitted with Forced Draft 2 main Which Boilers are fitted with Superheaters 2 main

No. and Description of Boilers Water tube (Wickers "A" Type) Working Pressure 220 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 domestic purposes only

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

(If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

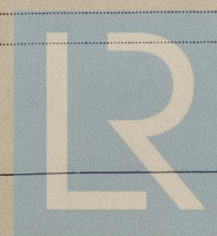
SPARE GEAR.

Has the spare gear required by the Rules been supplied yes, except H.P. piston rings and H.P. valve rings

State the principal additional spare gear supplied

The foregoing is a correct description.

Manufacturer.



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009848-009859-0118

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 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 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 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)
The machinery of this vessel was built and surveyed in accordance with rules and requirements of the American Bureau
A number of main engine and auxiliary machinery parts, and boilers in entirety were examined and found or placed in good order
The machinery was satisfactorily tested under working conditions and is eligible in my opinion to have the record LMC 4,48 and the notation 2WTB (Supt 220 lbs sq") HS 4882

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,
Special	£	:	19
Donkey Boiler Fee	£	:	When received,
Travelling Expenses (if any)	£	:	19

C. Booker
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned LMC 4.48 subject