

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office JAN 14 1939

Date of writing Report 19 When handed in at Local Office 19

Port of Shanghai

No. in Survey held at Shanghai
Reg. Book.Date, First Survey March 24th Last Survey July 21st 1937
(Number of Visits 4)

33775 on the "SIANG WO"

Tons { Gross 2595
Net 1515

Built at Hong Kong By whom built Hong Kong & Whampoa Dock Co., Ltd. Yard No. 625 When built 1926

Engines made at Hong Kong By whom made Hong Kong & Whampoa Dock Co., Ltd. Engine No. When made 1926

Boilers made at Shanghai By whom made Shanghai Dock & Eng. Co., Ltd. Boiler No. When made 1926

Registered Horse Power 1,480 Owners Indo-China S.N. Co., Ltd. Port belonging to Shanghai

Nom. Horse Power as per Rule 310 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Yangtze River Service

ENGINES, &c.—Description of Engines Reciprocating Twin Screw Revs. per minute 200

Dia. of Cylinders 13 1/2", 22", 35" Length of Stroke 18" No. of Cylinders 6 No. of Cranks 6

Crank shaft, dia. of journals as per Rule 6 3/4" Crank pin dia. 6 3/4" Crank webs Mid. length breadth 4 1/2" shrunk Thickness parallel to axis 4 1/2" Mid. length thickness 4 1/2" Thickness around eye-hole 4 1/2"

Intermediate Shafts, diameter as per Rule 6 1/2" Thrust shaft, diameter at collars as per Rule 6 3/4"

Tube Shafts, diameter as per Rule 7 1/2" Screw Shaft, diameter as per Rule 7 1/2" Is the tube shaft fitted with a continuous liner Vickers Gland

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule 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 Cedewall or Vickers? Length of Bearing in Stern Bush next to and supporting propeller 31"

Propeller, dia. 7'6" Pitch 7'3" No. of Blades Four Material whether Moveable No Total Developed Surface 21 sq. ft. sq. feet

Feed Pumps worked from the Main Engines, No. Two Diameter 8 1/2" Stroke 22" Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. one Diameter 7" Stroke 8" Can one be overhauled while the other is at work Yes

Feed Pumps { No. and size Two Pumps connected to the Main Bilge Line { No. and size Steam

Ballast Pumps, No. and size Three 8" dia. 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 5 Pieces & 4" dia. In Holds, &c. 5 Pieces & 4" dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One & 7" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 3 3/4"

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 & Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates None Are the Overboard Discharges above or below the deep water line Above

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 Scupper Pipe & Bilge How are they protected Covered with wood

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

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 Top Gratings E.R.

IN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 1816 Sq. ft.

Forced Draft fitted Yes No. and Description of Boilers Two Multitubular Scotch Working Pressure 200 lbs. a"

A REPORT ON MAIN BOILERS NOW FORWARDED?

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

Is a donkey boiler intended to be used for domestic purposes only

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

(If not state date of approval)

Reheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Is the spare gear required by the Rules been supplied Yes

Is the principal additional spare gear supplied

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - { During erection on board vessel - - { Total No. of visits 4.

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 Identification Mark Thrust shaft material Identification Mark
Crank shaft material Identification Marks Tube shaft, material Identification Mark
Intermediate shafts, material Identification Mark Steam Pipes, material Test pressure Date of Test
Screw shaft, material Identification Mark Is the flash point of the oil to be used over 150°F.
Is an installation fitted for burning oil fuel 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 whole of the main and auxiliary machinery has now been examined and found in good condition, namely, cylinder pistons, valves, rods, crank, thrust and intermediate shaftings and all bearings condenser, pumps, and pumping arrangements, piping, engine seatings and holding down bolts, spare gear, all machinery examined under working condition. This machinery has been examined on several occasions during the past few years by the Surveyors to this Society for the purpose of issuing a Certificate for the Hull, Boilers and machinery for presentation to the Consul-General in accordance with the Treaties. The whole is, in my opinion, in sound condition and eligible for Classification with the records of survey already assigned.

The amount of Entry Fee ... £ : : When applied for, :
Special See Hull Report : : 19 :
Donkey Boiler Fee ... £ : : When received, :
Travelling Expenses (if any) £ : : 19 :

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 21 FEB 1939

Assigned



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