

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

MAY 30 1938

Date of writing Report 27th April 1938 When handed in at Local Office 19 Port of YOKOHAMA

No. in Survey held at TOKYO Date, First Survey 6-10-37 Last Survey 8-4-38 19

Reg. Book. 50 TON NON PROPELLED FLOATING CRANE (Number of Visits 33) Gross 723 Tons

Built at Tokyo Shikaujima S B Eng Co Ltd By whom built Shikaujima S B Eng Co Ltd Yard No. 445 Net 445 Tons

Engines made at Tokyo By whom made Shikaujima S B Eng Co Ltd Engine No. 445 When made 1938

Boilers made at Tokyo By whom made Shikaujima S B Eng Co Ltd Boiler No. 445 When made 1938

Registered Horse Power _____ Owners Union of Soviet Socialist Republics Port belonging to Vladivostok

Nom. Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes

Trade for which Vessel is intended Harbour use

ENGINES, &c.—Description of Engines

Dia. of Cylinders _____ **Length of Stroke** _____ **No. of Cylinders** _____ **Revs. per minute** _____

Crank shaft, dia. of journals _____ **Crank pin dia.** _____ **Crank webs** _____ **No. of Cranks** _____

Intermediate Shafts, diameter _____ **Thrust shaft, diameter at collars** _____

Tube Shafts, diameter _____ **Screw Shaft, diameter** _____ **Is the shaft fitted with a continuous liner** _____

Bronze Liners, thickness in way of bushes _____ **Thickness between bushes** _____ **Is the after end of the liner made watertight in the propeller boss** _____

Propeller, dia. _____ **Pitch** _____ **No. of Blades** _____ **Material** _____ **whether Moveable** _____ **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 One - 6M³/hr. } **Pumps connected to the** { No. and size 1 - 50M³/hr }
 { How driven Steam } **Main Bilge Line** { How driven Steam }

Ballast Pumps, No. and size 1 - 50M³/hr **Lubricating Oil Pumps**, including Spare Pump, No. and size _____

Oil Cooler _____ **Suctions, connected to both Main Bilge Pumps and Auxiliary** _____

Main Water Circulating Pump Direct Bilge Suctions, No. and size None **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 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 yes **Are they fitted with Valves or Cocks** yes

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** 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 _____ **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** _____ **Is it fitted with a watertight door** _____ **worked from** _____

MAIN BOILERS, &c.—(Letter for record S)

Total Heating Surface of Boilers 60M² = 646 #

Is Forced Draft fitted no No. and Description of Boilers One cylindrical marine type Working Pressure 8 kg/cm² 114 lb

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

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

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

PLANS. Are approved plans forwarded herewith for Shafting yes Main Boilers 2, 11/14/37 Auxiliary Boilers _____ Donkey Boilers _____

Superheaters _____ General Pumping Arrangements 19th 27/10/37 Oil fuel Burning Piping Arrangements _____

SPARE GEAR.

Has the spare gear required by the Rules been supplied List of spare gear supplied, attached.

State the principal additional spare gear supplied _____

The foregoing is a correct description,

Manufacturer.



009580-009589-0011

NOTE - The wrong which do not apply should be deleted.

6/10/37 to 15/3/38 = 21 Visits

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - - 20/12/37 to 8/4/38 = 12 Visits Crane Trials 18, 19/2, 3, 4, 5, 6/3, 11/3.

Total No. of visits 33 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 30/9/37

Completion of pumping arrangements 14/2/38 Boilers fixed 25/1/38 Engines tried under steam ✓

Main boiler safety valves adjusted 9/2/38 Thickness of adjusting washers 29 m/m

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 Copper ✓ Test pressure 16 kg/cm² Date of Test 21/1/38

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 pumping arrangements on this vessel have been installed under Special Survey in accordance with the Rules & Approved Plans. Materials & Workmanship good. On completion of installing, the pumping arrangements tried and found in order.

Crane machinery is steam driven.

Crane machinery - The Crane machinery has been constructed under Survey, in accordance with the Owner's Specification & Drawings. All forgings & Castings were tested as per the Rules with satisfactory results.

On completion of installing, the crane & its machinery were examined under full working trials to Owner's Specification, with satisfactory results. On completion of trials the job, which was bolted together for trials was dismantled for shipment to U.S. S. R. where it will be re-assembled & riveted together.

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,
SURVEY OF CRANE PARTS AND SPECIAL TRIALS ...	£ 50:0	:	27-4-1938
Donkey Boiler Fee ...	£ 10:0	:	
Travelling Expenses (if any) ...	£ 173:50	:	8/8-38
TRUNK CALLS ...	£ 10:50	:	

J. Mileolas.
Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 3 JUN 1938

Assigned

+ N. B. H. 38



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