

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 11 AUG 1956

of writing Report _____ When handed in at Local Office AUG. - 4, 1956 Port of Kobe

o. in Survey held at Mukaishima, Japan. Date, First Survey 4 Aug. 1955 Last Survey 5 April 1956

Reg. Book Steel Steam (Number of Visits _____)

on the Single Screw Vessel "JAGOCHA" Tons { Gross 197.21
Net _____

uilt at Mukaishima, Japan By whom built Hitachi S.B. & E. Co., Ltd., Mukaishima Shipyard Yard No. 3757 When built 4 Mo. 1956

Engines made at Innoshima, Japan By whom made Hitachi S.B. & E. Co., Ltd., Innoshima Shipyard Engine No. 2 When made 12 Mo. 1955

Boilers made at Innoshima, Japan By whom made Hitachi S.B. & E. Co., Ltd., Innoshima Shipyard Boiler No. 207 When made 12 Mo. 1955

Indicated Horse Power { Maximum 501
Service 400 Owners v/o Sudoimport, Moscow, U.S.S.R. Port belonging to Igarka

N. as per Rule 9190 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted Yes

Trade for which vessel is intended Home trading

GINES, &c. Description of Engines Triple expansion engine Revs. per minute { Maximum 183
Service 170

Dia. of Cylinders 280, 460, 765 m.m. Length of Stroke 460 mm No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals 151.75 as per Rule As approved Crank pin dia. 162 m.m. mid. length breadth 300 m.m. Thickness parallel to axis 97 m.m.
as fitted 160 m.m. Crank webs 97 m.m. shrunk Thickness around eye-hole 69 m.m.
as per Rule As approved 144.5 as fitted _____

Intermediate Shafts, diameter as fitted 155 m.m. Thrust shaft, diameter at collars as per Rule As approved as fitted 160 m.m.

Propeller Shafts, diameter as fitted _____ Screw Shaft, diameter as per Rule As approved Is the { tube } shaft fitted with a continuous liner { Yes
as fitted _____ as fitted 170 m.m. screw }

Bronze Liners, thickness in way of bushes as per Rule As approved as per Rule As approved Is the after end of the liner made watertight in the
as fitted 15 m.m. Thickness between bushes as fitted 15 m.m.

Propeller boss Yes 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 fitted at the after end of the stern tube _____
If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 750 m.m.

Propeller, dia. 2,100 mm Pitch 2,210 mm No. of Blades 4 Material Cast Steel whether Movable Solid Total Developed Surface 1.72 meters sq. feet

Feed Pumps worked from the Main Engines, No. 1 Diameter 58 m.m. Stroke 230 m.m. Can one be overhauled while the other is at work _____

Large Pumps worked from the Main Engines, No. and capacity 1. 8.25 M³/H. Can one be overhauled while the other is at work _____

Feed Pumps { No. and size 1. 220 m.m. One Pumps connected to the { No. and capacity of each 1-8.25 M³/H. 2-@ 60 M³/H.
How driven Steam engine Injector Main Bilge Line { How driven by M. Eng. by independent st. eng.

Ballast Pumps, No. and capacity of each _____ Lubricating Oil Pumps, including Spare Pump, No. and how driven _____

Are two independent means arranged for circulating water through the Oil Cooler _____ Branch Bilge Suctions, No. and size:—In Engine and
Boiler Room E. Room: 1-50 m.m. hose. 1-50 m.m. dia. B. Room: 1-70 m.m. dia. 1-50 m.m. hose.

Pump Room _____ In ~~Hold~~ Other Spaces. Under Crew Space, 1-50 m.m. dia.

Core Store: 1-50 m.m. dia. Aft Void Space: 1-50 m.m. dia. Coal Bunkers: 3-50 m.m. dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-90 m.m. dia. Direct Bilge Suctions to the Engine and/or Boiler Room Bilges,
No. and size 1-70 m.m. in E. R. 1-70 m.m. in B. R.

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 Bigle sounding and suction pipes How are they protected Wood cover

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 _____

IN BOILERS, &c.—Total Heating Surface of Boilers 151.05 M² Superheaters _____ Half Economisers _____

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

No. and Description of Boilers 1. Howden Johnson Type Dry Combustion Scotch Boiler Working Pressure 16 kgs/cm² 227 lbs

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 other than domestic purposes _____

PLANS. Are approved plans forwarded herewith for Shafting Kob 10-8-54 Main Boilers Kob 29-11-54 Auxiliary Boilers _____ Donkey Boilers _____
(If not state date of approval)

Superheaters _____ General Pumping Arrangements 20, Jan. 1955 Oil fuel Burning Piping Arrangements _____

SPARE GEAR.

Is the spare gear required by the Rules been supplied Yes State if for "Short Voyages" only Short Voyages

What the principal additional spare gear supplied As in the index.

The foregoing is a correct description.

T. Yuba, Director Yard Manager Mukaishima Shipyard. S. Akamatsu, Director Yard Manager Innoshima Shipyard.
Hitachi Shipbuilding & Engineering Co., Ltd.



014849-014858-0248

1955: Aug. 4, 23, 31, Sep. 21, 28, Oct. 5, 10, 17, 28 Nov. 1, 7, 14, 17, 22, 24.
 Dec. 3, 7, 9, 12, 14, 26.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

1956: Jan. 7, 21, 31 Feb. 5, 7, 20 March 1, 13, 16, 24, 28, 30 April 3, 5

35

Dates of Examination of principal parts—Cylinders 23-8-55, 5-10-55 Slides 5-10-55 Covers 5-10-55, 17-10-55
 Pistons 14-12-55 Piston Rods 14-12-55 Connecting rods 21-9-55
 Crank shaft 21-9-55 Thrust shaft 21-9-55 Intermediate shafts 7-1-56
 Tube shaft Screw shaft 9-12-55 Propeller 9-12-55
 Stern tube 9-12-55 Engine and boiler seatings 7-2-56 Engines holding down bolts 7-2-56

Completion of fitting sea connections 3-12-55
 Completion of pumping arrangements 1-3-56 Boilers fixed 13-3-56 Engines tried under steam 24-3-56
 Main boiler safety valves adjusted 16-3-56

Thickness of adjusting washers 14 m.m.
 Crank shaft material Forged steel Identification Mark \checkmark Kob No. HIKCK304 MK 21-9-55 Thrust shaft material Forged steel Identification Mark Kob No. HIF3 MK 21-9-55
 Intermediate shafts, material Forged steel Identification Marks \checkmark Kob No. HC-F567-2 MK 7-1-56 Tube shaft, material - Identification Mark -
 Screw shaft, material F. steel Identification Mark \checkmark Kob No. HCF-566-2 MK 9-12-55 Seam Pipes, material Seamless Steel Test pressure 32 kgs/cm² Date of Test 20-2-56

Is an installation fitted for burning oil fuel No 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 -
 Full description of fire extinguishing apparatus in machinery spaces Eng. Room and same in Boiler Room:
 1. 50 m.m. water hose coupling with 2" bore 10M hose.
 1, 9 litre portable bottle.

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with -

What is the special notation desired \checkmark Navigation in Ice.

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with \checkmark Yes

Is this machinery duplicate of a previous case Yes If so, state name of vessel S. S. "KONDOR" Hitach S. No. 3756

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

These machines have been constructed under Special Survey in accordance with the Rules, Approved plans and Secretary's letters.

The material and workmanship are good.

On completion these machines were installed in the vessel in accordance with the Rules.

Appliances tested under full working condition and eligible in our opinion, for classification with the records of \clubsuit L.M.C. 4,56 \clubsuit B.S. 4,56 and T.S. (CL) 5,56 and notation "Strengthened for Navigation in Ice".

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

Installation			
The amount of Entry Fee	£ 40.000	When applied for,	
Special	£	5/6	1956
Donkey Boiler Fee	£	When received,	
Travelling Expenses (if any)	£ See R.H. 1.		19

FRIDAY 12 OCT 1956

Date

Committee's Minute + LMC 4.56

M. Kamakura
Yamada
 Engineer Surveyor to Lloyd's Register of Shipping.



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