

Rpt. 4.

No. FE-3798

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office AUG - 4. 1956 19 Port of Kobe Received at London Office 11 AUG 1956

No. in Survey held at Mukaishima, Japan Date, First Survey 4 Aug. 1955 Last Survey 7 March 1956
Reg. Book Steel Steam (Number of Visits 35)

on the Single Screw Vessel "KONDOR"

Built at Mukaishima, Japan By whom built Hitachi S.B. & E. Co., Ltd., Tons Gross 197.21
Mukaishima Shipyard Yard No. 3756 When built 3 Mo. 1956

Engines made at Innoshima, Japan By whom made Hitachi S.B. & E. Co., Ltd., Engine No. 1 When made 12 Mo. 1955
Innoshima Shipyard

Boilers made at Innoshima, Japan By whom made Hitachi S.V. & E. Co., Ltd., Boiler No. 206 When made 11 Mo. 1955
Innoshima Shipyard

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

M.N. as per Rule 91.90 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which vessel is intended Home trading

ENGINES, &c.—Description of Engines Triple expansion engine

Dia. of Cylinders 280, 460, 765 m.m. Length of Stroke 460 m.m. No. of Cylinders 3 Revs. per minute Maximum 183
as per Rule As approved Service 170

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

Intermediate Shafts, diameter as per Rule As approved
as fitted 155 m.m.

Tube Shafts, diameter as per Rule As approved
as fitted 170 m.m.

Screw Shaft, diameter as per Rule As approved
as fitted 170 m.m.

Is the tube shaft fitted with a continuous liner? Yes

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

Propeller, dia. 2,100 mm Pitch 2,210 mm No. of Blades 4 Material Cast Length of Bearing in Stern Bush next to and supporting propeller 750 m.m.
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. Total Developed Surface 1.72 sq. m.

Bilge 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. 160 x 110 m.m. One Pumps connected to the No. and capacity of each 1-8.25 M³/H 2-60 M³/H.
Pumps How driven Steam engine Injector Main Bilge Line 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.

Boiler Room E. Room: 1-50 m.m. hose. 1-50 m.m. dia. B. Room: 1-50 m.m. dia. 1-50 m.m. hose. Branch Bilge Suctions, No. and size: In Engine and In Pump Room.

Fore Store: 1-50 m.m. dia. Aft Void Space: 1-50 m.m. dia. Coal Bunkers: 3-50 m.m. dia. In Other Spaces. Under Crew Space.

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 mm. in R.R. 1-70 mm. in B.R. 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. Bilge 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.

MAIN BOILERS, &c.—Total Heating Surface of Boilers 151.05 M² 16.26 Superheaters Half Economisers

Which Boilers are fitted with Forced Draft All

No. and Description of Boilers 1. Howden Johnson Type Dry Combustion Which Boilers are fitted with Superheaters.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes Working Pressure 16 kgs/cm² 22.7 lb.

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 10-8-54 Main Boilers 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.

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

State the principal additional spare gear supplied. As in the Rules.

The foregoing is a correct description.

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

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Lloyd's Register
Foundation

1955: Aug. 4, 23, 30 Sep. 21, Oct. 5, 10, 17, 28 Nov. 1, 2, 7, 14, 17, 22, 24, 25
Dec. 7, 9, 10, 12, 19
During progress of work in shops - -
Dates of Survey while building
During erection on board vessel - - -
1956: Jan. 9, 10, 20, 21, 31 Feb. 7, 14, 17, 29 March 1, 7.
Total No. of visits 32

Dates of Examination of principal parts—Cylinders 30-8-55, 5-10-55 Slides 5-10-55 Covers 5-10-55, 17-10-55
Pistons 10-12-55 Piston Rods 10-12-55 Connecting rods 21-9-55
Crank shaft 21-9-55 Thrust shaft 21-9-55 Intermediate shafts 9-1-55
Tube shaft - Screw shaft 25-11-55 Propeller 25-11-55
Stern tube 21-11-55 Engine and boiler seatings 21-1-56 Engines holding down bolts 21-1-56
Completion of fitting sea connections 22-11-55
Completion of pumping arrangements 7-2-56 Boilers fixed 14-2-56 Engines tried under steam 27-2-56
Main boiler safety valves adjusted 17-2-56 Thickness of adjusting washers 12 m.m.
Crank shaft material Forged steel Identification Mark Kob No. HIKCK303 Thrust shaft material Forged steel Identification Mark
Intermediate shafts, material Forged steel Identification Marks Kob No. HC-F567-1 Tube shaft, material Identification Mark
Screw shaft, material F. steel Identification Mark Kob No. HCF566-1 Steam Pipes, material Seamless Steel Test pressure 32 kgs/cm² Date of Test 31-1-56
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 Navigation in Ice.
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 No If so, state name of vessel -
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 classi-
fication with the records of *L.M.C. 3,56 *B.S. 3,56 and T.S. (CL) 3,56 and notation.

"Strengthened for Navigation in Ice"

The amount of Entry Fee ... £ 40.000 When applied for, 5/6/56
Special ... £ :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ See RPA. When received, 19

Date

FRIDAY 12 OCT 1956

Committee's Minute

+LMC 3 56

M. Ramakumar.
✓ Hanada
Engineer Surveyor to Lloyd's Register of Shipping.



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