

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 6 FEB 1926

Date of writing Report 28.12.1925 When handed in at Local Office 19 Port of KORE
 No. in Survey held at OSAKA Date, First Survey July 9th 1924 Last Survey Dec 21st 1925
 Reg. Book. on the Single Screw Steamer "GENBU MARU" (Number of Visits 63)
 Built at OSAKA By whom built Osaka Iron Works Ltd Yard No. 1071 Tons { Gross 1742
 Engines made at Osaka By whom made Osaka Iron Works Ltd Engine No. 1071 Net 1057.47
 Boilers made at do By whom made do do do Boiler No. 1071 When built 1925-12
 Registered Horse Power Owners do do do Port belonging to TAKASAGO
 Nom. Horse Power as per Rule 211 ✓ Is Refrigerating Machinery fitted for cargo purposes No ✓ Is Electric Light fitted YES ✓

ENGINES, &c.—Description of Engines TRIPLE EXPANSION SURFACE CONDENSING ✓
 Dia. of Cylinders 18.30.50 ✓ Length of Stroke 36 ✓ Revs. per minute No. of Cylinders 3 ✓ No. of Cranks 3 ✓
 Dia. of Crank shaft journals as per rule 10.00 as fitted 10.4 ✓ Dia. of Crank pin 10.2 ✓ Crank webs Mid. length breadth 19.5 ✓ If shrunk Thickness parallel to axis 6.5 ✓
 Diameter of Thrust shaft under collars as per rule 10. as fitted 10.4 ✓ Diameter of Tunnel shaft as per rule 9.515 as fitted 9.34 ✓ Diameter of Screw shaft as per rule 10.61 as fitted 10.4 ✓ Is the Screw shaft fitted with a continuous liner the whole length of the stern tube YES ✓ 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 joints burned ✓ 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated ✓ Length of Stern Bush 3.9 ✓ Diameter of Propeller 13.6 ✓
 Pitch of Propeller 15.0 ✓ No. of Blades 4 ✓ Slate whether Moveable No ✓ Total Surface 60 ✓ square feet.
 No. of Feed Pumps fitted to the Main Engines 2 ✓ Diameter of ditto 3.4 ✓ Stroke 20 ✓ Can one be overhauled while the other is at work YES ✓
 No. of Bilge Pumps fitted to the Main Engines 2 ✓ Diameter of ditto 3.2 ✓ Stroke 20 ✓ Can one be overhauled while the other is at work YES ✓
 Total number and size of power driven Feed and Bilge Auxiliary Pumps ONE G.S. 8x5.2 ✓
 No. and size of Pumps connected to the Main Bilge Line ONE 6x7.2 & ONE 8x5.2 ✓
 No. and size of Ballast Pumps ONE 6x7.2 ✓ No. and size of Lubricating Oil Pumps, including Spare Pump ✓
 Are two independent means arranged for circulating water through the Oil Cooler ✓ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2 @ 3.2 & 2 @ 2.34 ✓ and in Holds, &c. 2 OFF 3" DIA IN FORE HOLD
 4 OFF 2.34" DIA. IN AFTER HOLD. ONE 3" DIA IN TUNNEL WELL ✓

No. and size of Mai Water Circulating Pump Bilge Suctions ONE OFF 6" DIA. ✓ No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges 2 OFF 3.2" DIA. ✓ 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 AS APPROVED ✓
 Are all connections with the sea direct on the skin of the ship YES ✓ Are they Valves or Cocks BOTH ✓
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YES ✓ Are the Discharge Pipes 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 are carried through the bunkers VENT PIPES TO DOUBLE BOTTOM TANK ONLY How are they protected WOOD CASINGS & CLIPPED TO FRAME ✓
 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 Screw Shaft Tunnel watertight YES ✓ Is it fitted with a watertight door YES ✓ worked from TOP GRATING ✓

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2SB 3011.4 ✓
 Is Forced Draft fitted YES No. and Description of Boilers TWO S.E. MULTITUBULAR Working Pressure 200 LBS ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES ✓
 IS A DONKEY BOILER FITTED? No ✓ If so, is a report now forwarded? ✓

PLANS. Are approved plans forwarded herewith for Shafting 29.9.24 Main Boilers 29.9.24 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 General Pumping Arrangements 26/9/24 & 29/9/24 Oil uel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—

2 Connecting rod top end bolts nuts & brasses 2 Conn. Rod bottom end bolts nuts & brasses.
 2 main bearing bolts nuts 6 coupling bolts nuts 1 set of feed & bilge pump valves
 one complete set of main engine piston rings one valve spindle one air pump rod.
 one air pump impeller & shaft 2 Safety valve springs for main boiler.
 also a large assortment of bolts nuts, iron of various sizes & hand tools.



The foregoing is a correct description.

Manufacturer.



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Lloyd's Register
Foundation

007219-007234-0283

1924. July 9 Aug 16, 19, 25, 27. Sept 4, 9. Oct 9, 23. Nov. 3, 12, 28. Dec. 2, 13, 18, 24.
 During progress of work in shops - - 1925 Jan 14, 15, 17, 20, 30. Feb 13, 27. March, 13. April, 10, 14 May 12, 20, 23, 25. June 8, 15, 23. July 8, 20, 23.
 Aug 12. Sept 7, 8, 9, 11, 15, 16, 26 Oct. 1, 5, 6, 17, 22.
 During erection on board vessel - - Oct. 27, 30. Nov. 4, 5, 6, 21, 24, 26. Dec. 2, 9, 15, 17, 19, 21.
 Total No. of visits 63.

Dates of Examination of principal parts - Cylinders	27-10-25	Slides	27-10-25
Covers	27-10-25	Pistons	9-9-25
Connecting rods	8-9-25	Crank shaft	8-9-25
Tunnel shafts	16-9-25	Screw shaft	11-9-25
Stern tube	26-9-25	Engines and boiler seatings	26-9-25
Completion of pumping arrangements	15-12-25	Boilers fixed	9-12-25
Completion of fitting sea connections	19-10-25	Stern tube	6-10-25
Main boiler safety valves adjusted	15-12-25	Thickness of adjusting washers	LOCK NUTS FITTED.
Material of Crank shaft	O.H. STEEL.	Identification Mark on Do.	LLYD'S N° 590. 23-6-25 H.D.B.
Material of Thrust shaft	O.H. STEEL.	Identification Mark on Do.	" " 589 11-9-25 H.D.B.
Material of Tunnel shafts	O.H. STEEL.	Identification Marks on Do.	" " 587 15-9-25 H.D.B.
Material of Screw shafts	O.H. STEEL.	Identification Marks on Do.	" " 596 29-9-25 H.D.B.
Material of Steam Pipes	S.P. STEEL ✓	Test pressure	600 LBS ✓
Is an installation fitted for burning oil fuel	No. ✓	Date of Test	9-12-25
Have the requirements of the Rules for carrying and burning oil fuel been complied with		Is the flash point of the oil to be used over 150°F. ✓	
Is this machinery duplicate of a previous case		YES ✓ If so, state name of vessel "KOJUN MARU" RPT N° 4538	

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery & boiler of this vessel have been constructed under special survey in accordance with rule requirements & approved plans. They have now been efficiently installed on board & tested under steam with satisfactory results. This case is eligible in my opinion to have Record of + L.M.C. 12-25 in the Register Book.

Copies of the principal forging certificates are forwarded herewith:
 Thrust Shaft: Cert N° 589.
 Tunnel " " " 587
 Crank " " " 590
 Propeller " " " 596
 Connecting Rods " " 588
 Piston " " " 597
 Valve " " " 598
 Eccentric " " " 599
 C.S. Bolting Arms 556

It is submitted that this vessel is eligible for THE RECORD. + L.M.C 12. 25. F.D.C.L.

The amount of Entry Fee ...	£EN : 45-00	When applied for,	21-12-1925
Special INCL. BOILERS & ELECTRIC LIGHT	888-00	When received,	30/12/25
Donkey Boiler Fee ...	51-00		
Travelling Expenses (if any) £	SEE HULL RPT.		

Committee's Minute TUES. 9 FEB 1926
 Assigned + L.M.C 12. 25 F.D. C.L.

H.D. Buchanan & Co.
 Engineer Surveyor to Lloyd's Register of Shipping.