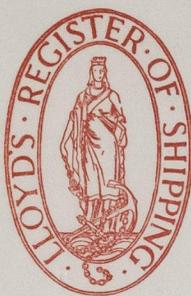


LLOYD'S REGISTER OF SHIPPING



Bl-89455

Port KOBE

7th June, 1963.

This is to Certify that I ~~have~~ ^{we} surveyed part of the machinery of the **n.v. "KOCHU MARU"** **9197** Gross tons of Kobe for **Alteration, Completion of Continuous Survey of Machinery, Tailshaft Survey and Donkey Boiler Survey** as she lay afloat and in dry dock at Osaka on the 24th May, 1963 and subsequently

and that all my ~~our~~ ^{our} recommendations have been carried out to my ~~satisfaction~~ ^{our} satisfaction. I ~~am~~ ^{we} reporting accordingly and recommending to the Committee of Lloyd's Register of Shipping that the machinery classification should be retained and the following survey records assigned **CSM 6,63, DBS 5,63 and TS (CL) 5,63.**

Parts now examined:-

Propeller, all sea connections, all outside fastenings.
Tailshaft (continous liner).
Cochran Boiler and exhaust gas heated boiler in their entirety.

Main Engine:

No.4 cylinder, cover, piston, rod, valves & gears, connection rod, top end, guide, crankpin & bearing.
Nos. 3 & 7 journals & bearings.
Independent aux. blower.
Both (F & A) superchargers and their air coolers.
Nos. 3,4 & 7 intermediate shafts & bearings (Nos. 5,6,7,8,13 & 14 bearings and journals).
Manoeuvring system.
Holding down bolts & chocks.
All O.F. injection pumps, O.F. supply pump.
Crankcase doors and explosion relief devices.
Main engine tested.

Pumps:

Inboard jacket cooling F.W. pump (starb'd), Inboard Piston cooling F.W. pump (starb'd), Inboard S.W. cooling pump (starb'd), Fire & G.S. pump (port), Bilge & ballast pump (port), Bilge pump (port), Aft lub. oil pump (port), Inboard feed water pump (starb'd), Lub. oil transfer pump (starb'd).

P.T.O.

Auxiliary Boiler Survey
Continuous Survey of Machinery
Donkey Boiler Survey
Engine Special Survey

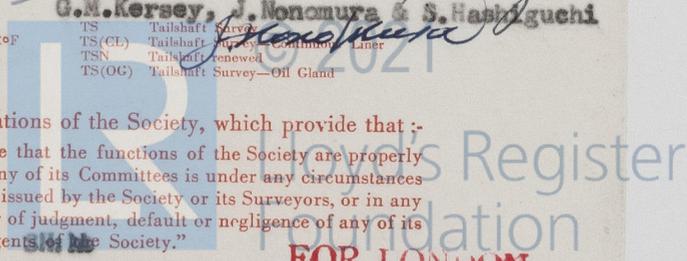
KEY TO ABBREVIATIONS

MBS Main Boiler Survey
OF Fitted for oil fuel (date) EP above 150°F
SGS Steam Generator Survey
SPS Steampipe Survey

G.M. Kersey, J. Nonomura & S. Hashiguchi
TS Tailshaft Survey
TS (CL) Tailshaft Survey - Continous Liner
TSN Tailshaft renewed
TS (OG) Tailshaft Survey - Oil Gland

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that :-
"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

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5200 JPF 10-10-1965

LLOYD'S REGISTER OF SHIPPING

Bilge, ballast & oil fuel suction lines, fittings & controls. The remaining piping arrangements & fittings. Aux. condenser.



- Both M.E. jacket cooling F.W. coolers. Aux. oil engine F.W. cooler. M.E. piston cooling F.W. cooler. M.E. lub. oil cooler. O.F. heater for M.E. (tested). Aux. air receiver & safety device. Starting air pipes. Aft main air receiver & safety device. Aux. air compressor in its entirety. All fuel tanks for main & aux. oil engines and boilers. Drain cooler. Fire extinguishing arrangements. Both steering machinery. Windlass. Aux. oil engine for aux. air compressor (port). Aux. electric equipment.

and that all my recommendations have been carried out to my satisfaction. I am reporting accordingly and recommending to the Committee of Lloyd's Register of Shipping that the machinery classification should be retained and the following survey records assigned

Parts now examined:-

Propeller, all sea connections, all water fastenings. Tailshaft (continuous line). Gaskets collar and exhaust gas heated collar in their entirety. Main shaft. No. 1 cylinder, cover, piston, rod, valves & gear, connection rod, top end, gudge, crankpin & bearing. No. 2 & 3 journals & bearings. Independent aux. blower. Both (1 & 2) superchargers and their air coolers. No. 1 & 2 intermediate shafts & bearings (No. 2, 3, 4, 5 & 6 bearings and journals). Lubricating system. Holding down bolts & checks. All O.V. injection pump, O.V. supply pump. Crankcase doors and explosion relief devices. Main engine tested.

Intermediate jacket cooling F.W. pump (starboard), Inboard jacket cooling F.W. pump (port), Inboard M.E. cooling pump (starboard), Fire & O.V. pump (port), Bilge & ballast pump (port), Main pump (port), Inboard food water pump (starboard), Inboard food water pump (port), Inboard air transfer pump (starboard).

KEY TO ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes terms like 'M.E.', 'F.W.', 'O.V.', 'Pump', 'Cooler', 'Receiver', 'Compressor', 'Heater', 'Blower', 'Supercharger', 'Shaft', 'Journal', 'Bearing', 'Cylinder', 'Rod', 'Valve', 'Gear', 'Connection rod', 'Gudgeon pin', 'Crankpin', 'Crankcase door', 'Explosion relief device', 'Main engine', 'Propeller', 'Tailshaft', 'Gaskets collar', 'Exhaust gas heated collar', 'Intermediate shaft', 'Jacket cooling', 'Food water', 'Air transfer', 'Air receiver', 'Air compressor', 'O.V. injection pump', 'Supply pump', 'Crankcase doors', 'Explosion relief devices', 'Main engine tested'.

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