

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office _____)

Date of writing Report _____ 19 _____ When handed in at Local Office _____ 19 _____ Port of LOS ANGELES HARBOR, CALIF.

Survey held at LOS ANGELES HARBOR, CALIF. Date, First Survey March 28 Last Survey May 11 19 47

on the Machinery of the ~~Wood~~ ^{Iron} or Steel Single Screw Steamer "U.S.S.R. VICTORY" (No. of Visits 15)

Gross 7612 Vessel built at Los Angeles, Calif. By whom California S.B. Corpn. When 1944 4
 Net 4555 ^{PITTSBURGH} Engines made at Philadelphia, Pa. By whom Westinghouse Electric & Mfg. Co. When 1944
 Original Power 1561 Boilers, when made (Main) 1943 (Donkey) --
 Main Boilers 2 Owners India Steamship Co., Ltd. Owners' Address _____
 (if not already recorded in Appendix to Register Book.)
 Donkey Boilers -- Managers _____ Port Calcutta Voyage ----
 Pressure _____
 Main Boilers 525 # If Surveyed Afloat or in Dry Dock Both _____
 (State name of Dock.) Todd Shipyards Corpn. Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Report No. _____ Port _____
 Particulars of Examination and Repairs (if any) Classification LMC - B.S. & T.S.

Medical Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the nature of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and details being detailed in the body of the report, should be briefly summarised at the end of the report. State also the names and initials of any letters respecting this case.

Where cases where the Surveyor has not made a special damage report he is required to state whether he has offered his services for this purpose, and why they were declined.

Has a damage report made by anyone else? If so, by whom? _____

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes

Did the Surveyor personally go inside each Donkey Boiler separately and make a thorough examination at this time? _____

Were any parts of the Boilers not examined? If so, state for what reasons? _____

What special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? _____

Latest date of internal examination of each boiler April 30th, 1947 Present condition of funnel(s) Good

Did the Surveyor examine the Safety Valves of the Main Boiler? Yes To what pressure were they afterwards adjusted under steam? 525 lbs. sq. in.

Did the Surveyor examine the Safety Valves of Donkey Boiler? _____ To what pressure were they afterwards adjusted under steam? _____

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? Yes, and of the Donkey Boilers? _____

Did the Surveyor examine the drain plugs of the Main Boilers? _____, and of the Donkey Boilers? _____

Did the Surveyor examine all the mountings of the Main Boilers? Yes, and of the Donkey Boilers? _____

Has the main shaft now been drawn and examined? Yes Is it fitted with continuous liner? Yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? _____

Has the donkey shaft now been changed? No If so, state reasons. _____

Has the donkey shaft now fitted been previously used? Yes Has it a continuous liner? Yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? _____

Latest date of examination of Screw Shaft Apr. 1, 1947 State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft 5/32

Engine parts, when referred to by numbers, should be counted from forward. Is electric light and/or power fitted? Yes

Did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Yes

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done. Complete

DONE: - Vessel placed on drydock, propeller, fastenings of propeller, stern bush and sea connections, examined and found or placed in good order. Sea connections opened up, overhauled, lined with connections and found in order. Shaft drawn, examined and found in satisfactory working condition. Note: - Stern bush fitted "Micarta" bearing strips. Examined: Main Engines, H.P. & L.P. Turbine Rotors, casings, blading, bearings and brasses, shafts, H.P. & L.P. pinion gears, 1st. & 2nd. reduction gears and main reduction gear, with bearings and brasses. Main thrust shaft collar, pads, bearings and brasses. Intermediate shafts bearings. Reduction gear casings and lubricating oil sump. Engine seating and holding down bolts and all found or placed in satisfactory working condition.

General Observations, Opinion, and Recommendation: - The Machinery and Boilers of this vessel are in good condition and eligible, in my opinion, to be Classed with this Society, with records in Lloyd's Register of Shipping. P.T.O. State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9,11, B.&M.S. 9,11, & L.M.C. 9,11, or *LM C 140 lb., F.D., &c.) CS 3,34.

Fee (per Section 29) \$ See Machy. Fees applied for 19 _____
 Damage or Repair Fee (if any) \$ 1st Entry Received by me, 19 _____
 (per Section 29.)
 Printing expenses (if chargeable) \$: : _____

Committee's Minute _____
 Signed L.M.C. - 5-47 _____
 T.B. (1947) - 5-25 lbs _____

Engineer Surveyor to Lloyd's Register of Shipping.



Insert Character of Ship and Machinery precisely as in the Register Book

Is a Certificate required? If so, to be sent to _____

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Main & Auxiliary Condensers (2), opened up, cleaned, tested, examined and found good.

Auxiliary Machinery - Examined following and found or placed in satisfactory working condition:-

Main & Auxiliary Circulating Water Pumps (Electric driven). Impellers, casings, shafts and bearings. Main & Auxiliary Feed Pumps, - 2 Vertical type, steam and water ends complete. 1 Steam Turbine (Ingersol-Rand), Turbine Rotor, blading, bearings & casing, Impeller, casing, shaft and bearings complete.

Condensate Pumps, - 1 (Electric drive) Impeller, casing & bearings, 1 Steam Turbo, Turbine & Impeller, 1 Auxiliary Pump (Electric Drive) Impeller, casing and bearings.

Bilge & Ballast Pumps (2) General Service Pump (1), Fire Pump (1), Fuel Oil Transfer Pump (1), Fuel Oil Service Pumps (2) Steam and liquid ends examined complete.

Main Engine Lubricating Oil Pumps, 1 (steam duplex) steam and liquid ends, 1 (Electric drive) screw gear type, gears, bearings and casing, examined.

Lubricating Oil Coolers (2) cleaned, tested and examined.

Evaporator and Distilling Units, Deaerating Heater, Pumps and Pumping Arrangements, examined and found or placed in satisfactory working condition.

Electrical Installation:-

Generator Turbines (2) opened up, examined rotors, casing, blading, shaft bearings and brasses, reduction gears, bearings and brasses, lubricating oil coolers and found satisfactory. Emergency Generator, oil engine, examined and tested.

Electrical Equipment, generators, motors, switchboards, breakers, electric cables and fittings examined, megger tested as per Rule Requirements and found or placed in order.

Generators examined under working conditions and found satisfactory.

Boiler Survey - Main Boilers (2) opened up, cleaned, examined throughout with super-heaters, economizers, safety valves and mountings and found or placed in good condition.

Boilers and main steam pipes tested by hydraulic pressure to 788 lbs. sq. inch and found satisfactory. Oil burning installation examined under working conditions. Daily

Service Fuel Oil Tanks, valves and deck controls. C.O.² Fire Extinguishing System examined and found in order.

Main & Auxiliary Machinery examined under working conditions and found satisfactory.

REPAIRS: - Main Engines - H.P. Turbine, rotor removed, forward and aft bearing journals machined smooth. Bearing brasses remetalled and refitted. Rotor balanced. H.P.

Dummy piston seal strips renewed in casing. Carbon seal rings renewed. Turbine thrust pads, ahead side, remetalled and refitted. Flexible shaft, coupling gear teeth badly worn. Owner's new spare flexible shaft, coupling and bolts now fitted.

L.P. Turbine, Flexible shaft, coupling gear teeth badly worn. Owner's new spare flexible shaft, coupling and bolts now fitted. L.P. ahead Dummy piston, 8 seal strips renewed. Carbon packing rings renewed. Turbine thrust pads, remetalled and refitted.

Main Circulating Water Pump, Impeller, seal rings renewed. Casing rings machined to fit, Impeller shaft top bearing brass sleeve renewed.

Auxiliary Circulating Pump. Impeller seal rings renewed. Casing rings machined to fit. Impeller shaft renewed.

Main Condensate Pump (Electric) Impeller seal rings renewed. Casing rings machined to fit. Shaft brass bearing sleeves renewed.

Auxiliary Condensate Pump. Impeller seal rings renewed. Casing rings machined to fit.

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Shaft brass bearing sleeves renewed.

Bilge & Ballast Pump, water end liners smoothed up. Buckets built up, machined and refitted with new rings.

Main Feed Pump (Steam Turbine), Impeller seal rings renewed. Casing rings machined to fit. Turbine thrust collar and pads renewed. Flexible coupling renewed.

Boilers - Port ~~and Starboard~~, Economizer elements missing. New elements, supplied by Boiler Manufacturer's, now fitted complete. On completion of fitting, Economizers, tested by hydraulic pressure to 788 lbs. sq. inch examined and found good.

Brickwork in boilers repaired with part new. Port Boiler Economizer, 2 soot blowers renewed.

Generator Turbine - Inboard and Outboard Turbines, rotor carbon seal rings renewed.

Electrical - Main Generators (2) Commutators machined to smooth surface, slip rings resurfaced and new brushes fitted. Domestic Refrigeration motor armature rewound, tested and fitted in order. Electric system, several grounds removed and system megger tested and proven in order.

Other minor repairs carried out.

L. J. Baumer.



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