

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

Date of writing Report May 31st 1941 When handed in at Local Office June 9 1941 Port of New York, N.Y. U.S.A
No. in Survey held at Bronx New York Date, First Survey April 24th Last Survey May 8th 1941
250. on the Machinery of the Wood, Iron or Steel Steamship "COMBRA" (No. of Visits 4)
Gross 6768 Vessel built at Kiel, Germany By whom Hobas & Suter Year, Month, 1937 7
Net 3976 Engines made at Berlin Tegel By whom Rheinmetall-Borsig When 1937
550 Boilers, when made (Main) 1934 (Donkey)
215 Owners Standard Transportation Co. Inc. Owners' Address as given
Main Boilers 228 Managers " Port London Voyage "
Donkey Boilers " If Surveyed Afloat or in Dry Dock Afloat
(State name of Dock.) Robert Dry Dock

st Report No. ✓ Port ✓
Particulars of Examination and Repairs (if any) P. LMC
Medical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly 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.
Damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined ✓
A damage report made by anyone else? If so, by whom? ✓
The Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? ✓
" " Donkey " " " " ✓
Was not done, state for what reasons? ✓
What parts of the Boilers could not be thus thoroughly examined? ✓
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 Port April 24th, Star & Port Side May 2nd Present condition of funnel(s) Good
The Surveyor examine the Safety Valves of the Main Boiler? ✓ To what pressure were they afterwards adjusted under steam? 228
The Surveyor examine the Safety Valves of Donkey Boiler? ✓ To what pressure were they afterwards adjusted under steam? ✓
The Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? ✓ and of the Donkey Boilers? ✓
The Surveyor examine the drain plugs of the Main Boilers? ✓ and of the Donkey Boilers? ✓
The Surveyor examine all the mountings of the Main Boilers? ✓ and of the Donkey Boilers? ✓
Screw shaft now been drawn and examined? No Is it fitted with continuous liner? ✓ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓
Shaft now been changed? ✓ If so, state reasons ✓
Shaft now fitted been previously used? ✓ Has it a continuous liner? ✓ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓
Date of examination of Screw Shaft ✓ State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft None afloat
Engine parts, when referred to by numbers, should be counted from forward. Is electric light and/or power fitted? ✓
Did the Surveyor examine the generators, motors, switchgear, cables and fuses? ✓
Insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? ✓

Survey is not complete, state what arrangements have been made for its completion and what remains to be done. To Complete the Special Purpose Survey of Machinery for E.L.M.C. All sea valves, the pumping arrangement, the stern bush & all fastenings remain for examination
Special Purpose (\$8.00) Survey of Machinery.

All covers removed from Main Engines, the cylinders, steam (poppet) chests, covers, pistons with rings, valves, fittings, all Ross, spindles and gear complete, rammer throughout. All crosshead, guide shoes and guides rammer together with all top & bottom end tranes. All main bearings, the thrust carriage also spring bearings rammer complete with
General Observations, Opinion, and Recommendation:—
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 E.L.M.C. 140 lb., F.D., &c.)
Machine Eligible to stay afloat to remain as now
concluded it is recommended that the record of E.L.M.C. (including boiler) 541 be made in Register Book when all sea valves, pumping arrangement, propeller, stern bush & all fastenings rammer

Fees (per Section 29) L.M.C. £ 120
Damage or Repair Fee (if any) Boilers £ 45
(per Section 29.) Rps
Living expenses (if chargeable) £ : :
Committee's Minute NEW YORK JUN 1 1941
Signed As now
Survey held. B.S. 5, 41.
Fees applied for JUN 12 1941
Received by me, A. N. Coates & Co. Ltd.
Engineer Surveyor to Lloyd's Register of Shipping.
Lloyd's Register Foundation
(1/2) W21-0201

SS 'Comber'.

Main crankshaft, Thrust shaft & Line Section. Main & auxiliary Condensers Examined & tested. All main & auxiliary attached and independent pumps inclusive of Oil, feed, bilge, ballast, circulating, transfer, oil fuel, fuel service, fresh water & Sanitary pumps opened & examined throughout. Electric circuits & generating sets Examined also feed heater & evaporation.

Boilers:— Three main boilers opened cleaner Examined throughout with all mountings, Steam pipes & fittings. All accessories (Gucular No 1748) tested under working conditions, oil fuel service pumps opened & examined as aforementioned, 16 Controls for fuel & steam Driveling systems Examined with valves, oil discharge pipes etc & now satisfactory. Safety valves adjusted under steam.

Repairs - overhaul:— L & P Engine cross head overhaul & adjusted. All Poppet Steam valves removed overhauled, ground in & 120 stems with bushings renewed. The HP piston rod removed, stuffing box reconditioned & re-jointed. Main Valve gear overhaul & adjusted. Both Condensers overhaul, tested & proven efficient with several tubes renewed & water box & doors specially coated. Main engine throttle Governor gear reconditioned with parts new & brackets renewed. Condensers overhaul, glands repaired, the General service pump, with belts & fuel oil service pumps reconditioned with new fittings as required. The Main Leaky Cargo & Stripper pumps overhauled & new parts fitted. Several valves & fittings in the steam, water & oil ranges reconditioned. Electric generating sets overhaul, installation heavier all tested out under working conditions. Several new steam fittings installed and an inspection drain line in boiler room, accessibly located, with Ringed end gauge glasses, pump, drain & bilge & ejector connections, discharge etc. Boilers:— All boilers specially cleaned, several smoke & air heater tubes renewed & stay bolts in Fire & Port boilers overhaul. Safety heater drain fittings with leader joints & elements renewed. All mountings reconditioned, all test cocks beach boiler renewed (9) with steam fittings also some stop of drain pipe & fittings renewed. Four blowers reconditioned with parts renewed.

CH.

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5.8.41

[Faint, mostly illegible handwritten text in a cursive script, likely a letter or document.]

[Handwritten signature or initials, possibly "K. K. K."]



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