

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

(Received at London Office)

JUN 30 1939

Date of writing Report 3rd May 1939 When handed in at Local Office _____

No. in Reg. Book 50000 Survey held at Port of Dunedin, N.Z. Date, First Survey 18th April Last Survey 26th May 1939

803 on the Machinery of the Wood, Iron or Steel S.S. "Wairarapa" (No. of Vessel 15)

Tonnage { Gross 3926 Net 2379 Vessel built at Port of Auckland By whom Akt. "Napier" When 1914

Nominal Horse Power 452 Engines made at _____ By whom _____ When 1914

No. of Main Boilers 3 Boilers, when made (Main) 1914 Owners' Address _____

No. of Donkey Boilers _____ Owners Union S.S. Co. N.Z. Ltd. (Donkey) _____

Steam Pressure in Main Boilers 200 lb Managers _____ (if not already recorded in Appendix to Register Book.)

If Surveyed Afloat or in Dry Dock afloat Port Wellington Voyage Coastal

in Donkey Boilers _____

Last Report No. _____ Port _____

Particulars of Examination and Repairs (if any) Part LMC.

(Periodical Surveys, when held, must be reported in detail and verbatim in the terms of the Rules. State clearly the cause 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 besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

In 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.

Was 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? _____

If this was not done, state for what reasons? _____

And what parts of the Boilers could not be thus thoroughly examined? _____

Also 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? _____

State latest date of internal examination of each boiler (P) 21-4-39 (C) 24-4-39 (S) 5-5-39 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? 200 lb

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? Yes and of the Donkey Boilers? _____

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

Has screw shaft now been drawn and examined? _____ 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? _____

Has shaft now been changed? _____ If so, state reasons _____

Has the 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? _____

State 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 _____

Engine parts, when referred to by numbers, should be counted from forward. _____

If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? No Is electric light and/or power fitted? Yes

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

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done Yard to Dick, Poppler, Stern Bush, Sea Connections & outside fittings to examine. The electrical equipment to be examined & tested on return of vessel from Auckland in about two weeks time. Now done afloat at Port of Auckland: - Three Main Boilers found up, all mountings opened. Lagging removed from longitudinal & end seams. Tubes specially examined throughout. Popper Port Boiler. Eleven combustion stays removed. One tube removed, also diamant above tube removed. Gaskets of main jacket up. Bottom of air convection, P. & S. No 8-9 found up, gaskets circumferential diameter 15" welded out E.W. Opening of shell. Bottom manhole, shell up E.W. and door refitted. All mountings overhauled. Various valves opened with new spindles. Gaskets Boiler One combustion chamber stay removed. One tube removed. Opening of shell bottom manhole shell up by E.W. & door refitted. Two dry exhaust in C.C. edge of plate to rear shell welded out E.W. All mountings overhauled. Various new spindles fitted to manholes. Shell Boiler seven combustion

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, R.S. 9, 11, E.S.M.S. 9, 11, L.M.C. 9, 11, or CS, 24, &c.)

The Boilers & Machinery of this vessel in so far as now seen are in good & efficient condition and in my opinion eligible to remain as classed in the Register with the record of LMC (with date) when the survey has been completed.

Survey Fee (per Section 20) £ 16 : 10 : 0 Fees applied for 26th May 1939

Special Damage Repair Fee (if any) (per Section 20.) £ 3 0 : 0

Travelling expenses (if chargeable) £ 2 : 2 : 0 Received by me, _____ 19 _____

Committee's Minute Fri 21 JUL 1939

Assigned Deferred

21.5.39

Engineer Surveyor to Lloyd's Register of Shipping.

W.H.S. 0113 (1/2)

Lloyd's Register Foundation

W.H.S. 0113 (1/2)

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

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

Survey for Port & M.C. Machinery of the S.S. "Wakapuaka"

Chamber stays renewed. On ribs renewed. Two dry dock in stat. C.E. edge of plate to tank top, new cut & E.W. all mountings overhauled, various new spindles fitted to valves etc. Steam Pipes all main & auxiliary steam pipes over 3" bore, and all Superheater were satisfactorily tested to a hydraulic pressure of 400 lb/sq. in. and examined. Main Engines opened up. Cylinders, Piston, Slide Valve & gearing, shafting, throughout, Crankshaft, Exhaust & intermediate shafting, Journals, main bearings, bottom end bearings, Exhaust bearings etc. examined, and found in order. M.P. Piston rod skinned up & new gland packing fitted. Condenser opened up examined and tested. Air Pump and Main Engine Pumps, feed, sanitary & bilge opened up & examined. new one and delivery valves fitted. All auxiliaries opened up including Circulating Pump & engine, Ballast feed, general service, air feed, Regulating engine & compressor, Fan engine, Electric engine, Steering engine, Windlass, all cargo winches & moving winch. all Piston, Cylinders, shafting bearings etc. examined. Overhauled & refitted when necessary. Pumping Arrangement examined throughout. Tank & Bilge Lines, Valve boxes, cocks etc. examined & tested. Sea Connectors All Discharge valves only opened up and examined. Exports opened up and examined.

On completion Safety Valves on Boiler adjusted to 200 lb/sq. in. Turn taken out of Main engines & all auxiliaries. Steering engine & Sea tested and all found in order.

Note: Docking for examination of Propeller, Stern Bush, Sea Connectors, & outside Gasolines, also examination & testing of electrical equipment proposed at Owners request (as per letter attached to hull report) to enable vessel to make coastal voyage to Auckland and back to Dunedin. It being stated that arrangements will be made to dock vessel on return from Auckland in about two weeks time

W. W. Martin
Surveyor to Lloyd's Register

1939 completed