

Rpt. 9A

REPORT OF **MACHINERY SURVEYS AND REPAIRS**
(ENGINES AND AUXILIARIES)

Received London

17 JUN 1963

Ship's Name ~~MS~~ "WAIRANGI" 1942-4 Gross tons 12829
 Is there a rpt. 8? no Port Rotterdam Rpt. No. 56231
 No. of visits 2 First date 16-5-1963 Last date 22-5-1963
 Interim Cert. issued & copy herewith? yes Damage rpt. issued & copy herewith? - Last rpt. (H.Q. only)
 Date of completing rpt. 4-6-1963 Surveyed at, if different from Port above -
 Is a rpt. 9B attached? no MN (2472) Nature of survey Damage to Starboard Main Engine
 Survey fees Damage fee Expenses fl. 60,-- fl. 70,-- fl. 7.50
 S.A. fee

MAIN ENGINES, RECIP., STEAM OR I.C. (State Port—P or Starboard—S)

- 1 Cyls., covers, pistons & rods
- 2 Valves & gears
- 3 Con. rods, top ends & guides centre
- 4 Crankpins & bearings centre
- 5 Journals & bearings

Side

Side

MAIN ENGINE DRIVEN AIR COMPRESSORS (State Port—P or Starboard—S)

- 6 Cyls., covers, pistons & rods
- 8 Crankpins & bearings
- 10 Coolers & safety devices

- 7 Con. rods & top ends
- 9 Journals & bearings

MAIN ENGINE DRIVEN SCAVENGE PUMPS (State Port—P or Starboard—S)

- 11 Cyls., covers, pistons & rods
- 13 Crankpins & bearings

- 12 Con. rods & top ends
- 14 Journals & bearings

MAIN TURBINES (State Port—P or Starboard—S)

- 16 Casings, rotors, blading, bearings & thrusts

- 15 Levers

- 17 Reduction gearing
- 18 Scavenge blowers

- 19 Superchargers

I recommend that the machinery of this ship remain as classed with/without fresh record of Survey assigned, subject to the special condition at present attached to the vessel's class being dealt with as previously recommended, also subject to the No. 1 lower exhaust gas piston yoke of Starboard Main Engine being replaced or machined in way of tie rod nut landings before the end of July next.

(Where conditions of class are recommended to be retained, imposed, amended or deleted, particulars must be stated above and on the interim certificate.)

Date of Committee

Minute

MONDAY 29 JUL 1963

Surveyor to Lloyd's Register of Shipping

Van Son. and P.J. Stuy.

ALSO FOR

SPL FOR

SRL

POSTING

HEADER

CERT

003816-003823-0122 1/2

Exhaust steam turbines (with recip. eng.)	20	Thrust blocks	21	shafts & bearings
Steam compressors	22	Intermediate shafts & bearings	23	
Clutches & hydraulic couplings	24	Condensers (main & aux.)	25	
Steam re-heaters	26	Air ejectors (main & aux.)	27	
De-super-heaters	28	Forced &/or induced draught fans	29	
Stop & manoeuvring valves	30	Holding down bolts & chocks	31	
Main engine driven pumps	33	Detuner or vibration damper	32	

34 Crankcase doors & explosion relief devices

35 Have main engines been tested working & manoeuvring? (To be done on completion of ES or CS cycle)

36 Essential independent pumps

37 Bilge, ballast & oil fuel suction lines, fittings & controls

38 Have the remaining piping arrangements & fittings in the machinery space been examined as considered necessary?

39 Fresh water coolers

40 Lub. oil coolers

41 Heaters (state service)

42 Feed water filters

43 Auxiliary air receivers & safety devices

44 Starting air pipes

45 Main air receivers & safety devices

46 Independent air compressors coolers & safety devices

47 Oil fuel tanks (not forming part of the hull structure)

48 Have all evaporators safety valves been tested under steam?

49 HP & LP

50 Distillers

51 Fire extinguishing arrangements

52 Steering machinery

53 Windlass

AUXILIARY ENGINES

PARTICULARS OF DEFECTS, REPAIRS, ALTERATIONS, ETC.

It was stated that the after tie rod of No.1 cylinder exhaust gas piston yokes of Starboard Main Engine broke off at lower threaded end on voyage from River Plate to continent on the 1st May, last, due to which also the top exhaust gas piston cylinder was damaged.

This time both, top & lower exhaust pistons with yokes examined. Found tie rod nut landings of lower yoke not parallel resulting in bending stresses in the threaded ends of the rods when the nuts are tightened up. The top exhaust gas piston cylinder found cracked,

As there was no opportunity this time to remove the lower yoke for machining of the landings, tapered washers of sufficient thickness to be continued.

The reason for repairs must be stated and those on account of damage, the alleged cause of which must be given, should be detailed separately from wear and tear repairs. State what action has been taken regarding items which are subjects of class. State also where appropriate, for the information of the Technical Records Dept., the material of the defective item and whether it is a forging, casting or welded fabrication. Any alterations in existing particulars in the Register Book should also be reported above.

Rpt.

(cont.)

Ship's Name ~~SS~~/MS "WAIRANGI"

Port Rotterdam

Rpt. No.

56231

temporarily fitted.

The Owners superintendent stated that the lower yoke will be replaced or Machined at earliest opportunity but not later than by the end of July next.

Of Starboard engine, both No.1 forward and after tie rods and top exhaust gas piston cylinder satisfactory replaced by Ships spare ones. Id.marks of these parts noted.

J. van Sen.

Identified by position



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