

REPORT OF MACHINERY SURVEYS AND REPAIRS

(ENGINES AND AUXILIARIES)

Received London

31 OCT. 1962

Ship's Name ~~SS~~/MS "RANA" Gross tons 499.
 Is there a rpt. 8? yes Port Groningen Rpt. No. 2565b.
 No. of visits 13 First date 14-8-62 Last date 10-10-62.
 Interim Cert. issued & copy herewith? yes Damage rpt. issued & copy herewith? no. Last rpt. (H.Q. only)
 Date of completing rpt. 23-10-62 Surveyed at, if different from Port above Delfzijl.
 Is a rpt. 9B attached? yes MN 79 Nature of survey Condition, T.S., Engine repairs.
 Survey fees Fl. 30.-- Damage fee Fl. 150.-- Expenses Fl. 84.--

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)

15 Levers

- 16 Casings, rotors, blading, bearings & thrusts

- 17 Reduction gearing

- 18 Scavenge blowers

19 Superchargers

I recommend that the machinery of this ship remain as classed with ~~XXXXX~~ fresh record of T.S. (O.G.) 10-62.

Note: The item in the S.R.L. re Metalock repairs to main engine bedplate can now be expunged.

(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

FRIDAY 30 NOV 1962

Minute

See Minute on Casualty Report

C.P. Molenaar.
 Surveyor to Lloyd's Register of Shipping

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005367-005376-0226

20	Exhaust steam turbines (with recip. eng.)	21	Thrust blocks shafts & bearings		
22	Steam compressors	23	Intermediate shafts & bearings		
24	Clutches & hydraulic couplings	25	Condensers (main & aux.)		
26	Steam re-heaters	27	Air ejectors (main & aux.)		
28	De-superheaters	29	Forced &/or induced draught fans		
30	Stop & manoeuvring valves	31	Holding down bolts & chocks	32	Detuner or vibration damper
33	Main engine driven pumps				
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	Evaporators HP & LP	50	Distillers
51	Fire extinguishing arrangements	52	Steering machinery	53	Windlass

AUXILIARY ENGINES

PARTICULARS OF DEFECTS, REPAIRS, ALTERATIONS, ETC.

S.R.L. The main engine matalocked bedplate has been removed and a new one fitted.
The alignment of crankshaft and straight shafting has been checked and found in order.
Main engine no. 1,4,5 bottom end brasses (cracked) renewed.

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.

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