

**Rpt. 9A REPORT OF MACHINERY SURVEYS AND REPAIRS (ENGINES AND AUXILIARIES)**

FOR CONSIDERATION BY THE COMMITTEE OF LLOYD'S REGISTER OF SHIPPING

Received London  
31. MAR. 1965

Ship's Name **SM/MS KOSMONAUT LR541221**  
 Gross tons **10658** Port of Registry **Odessa** Port **Aden**  
 Date of build **4-1963** Is there a rpt. 8? **Yes** Rpt. No. **3953**  
 No. of visits **3** First date **19.3.65** Last date **21.3.65**  
 Interim Cert. issued & copy herewith? **Yes** Damage rpt. issued & copy herewith? **No** Last rpt. (H.Q. only)  
 Date of completing rpt. **24.3.65** Surveyed at, if different from Port above  
 Is a rpt. 9B attached? **No** MN Nature of survey **Dmg. & CS.**  
 CS Survey fees **£10** Damage fee **£15.** Expenses **15/-**  
 S.A. fee **£7.**

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

- 1 Cyls., covers, pistons & rods **No.2 - Good**
- 2 Valves & gears **No.2 - Good**
- 3 Con. rods, cross-heads, bearings & guides centre Side
- 4 Crankpins & bearings centre Side
- 5 Journals & bearings

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

- 6 Cyls., covers, pistons & rods 7 Con. rods, cross-heads & bearings
- 8 Crankpins & bearings 9 Journals & bearings
- 10 Coolers & safety devices

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

- 11 Cyls., covers, pistons & rods 12 Con. rods, cross-heads & bearings
- 13 Crankpins & bearings 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 **CSM (with date)** on completion of the survey subject to any outstanding conditions of Class being dealt with as previously recommended.

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

**P.H. Ferri.**

Surveyor to Lloyd's Register of Shipping

Date of Committee **FRIDAY 23 APR 1965**

Minute **as now.**

ALSO FOR

SPL FOR

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POSTING ✓

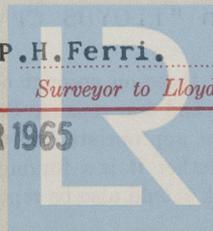
HEADER ✓

CERT ✓

At part or complete Special Surveys those items which are not applicable to the ship are to be cancelled; this need not be done when the machinery is on a continuous survey basis. When any part has been subject to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

considered that re-examination or repairs should be made before that date a distinguishing mark must be inserted against the item and the circumstances and action taken or recommended described fully under "defects and repairs".

The condition of any item is to be described as "good" only when it has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where repairs have been effected or it is



Lloyd's Register Foundation

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				

State Port P. or Starboard S.

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

Identify by position

#### AUXILIARY ENGINES

**PARTICULARS OF DEFECTS, REPAIRS, ALTERATIONS, ETC.** DAMAGE stated sustained to the Main Engine No.2 unit.

The Chief Engineer stated that during a voyage Port Said/Aden on the 11th March 1965 the above unit piston rod and piston over-heated necessitating the removal of same. Due to a sudden squall the vessel's staff were unable to replace the components and the vessel proceeded to Aden on the remaining five cylinders.

**NOW DONE:-** The piston and liner of the No.2 unit found to have locally over-heated at several points with subsequent score marks but these are not of a serious nature. These areas dressed/honed, new piston rings fitted. The piston rod was badly scored and over-heated over its entire length also the packing/gland assembly components badly worn. A new piston rod and components for the gland now fitted and a subsequent engine trial has proved to be satisfactory. Piston rod identification "LLOYDS CPN No.1897 VL 8.3.63".

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.