

Rpt. 9A

## REPORT OF MACHINERY SURVEYS AND REPAIRS

(ENGINES AND AUXILIARIES)

Received London

1955-6  
11 JUL 1963Ship's Name ~~SS~~ M.S. "LUBEN KARAVELOV"

7669 Gross tons of Varna

Is there a rpt. 8? ~~yes~~

Port Hamburg

Rpt. No. 12716

No. of visits 3

First date 11.6.63

Last date 13.6.63

Interim Cert. issued  
& copy herewith?

yes

Damage rpt. issued  
& copy herewith?

no

Last rpt. (H.Q. only) LON 149455

Date of  
completing rpt. 19.6.63

Surveyed at, if different from Port above -

Is a rpt. 9B  
attached?

yes

MN 960

Nature of survey CSM and Mch.-Rep.

Survey fees

Damage fee

Expenses

CSM : DM 210,--

AB.-Rep. : DM 90,--

Mchy.-Rep.: DM 60,--

DM 24,--

S.A. fee DM 50,--

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

- |   |  |                    |      |
|---|--|--------------------|------|
| 1 | Cyls., covers,<br>pistons & rods       | No.s 1, 2, 3 and 4 | good |
| 2 | Valves & gears                         | Nos. 1, 2, 3 and 4 | good |
| 3 | Con. rods, top ends<br>& guides centre |                    | Side |
| 4 | Crankpins &<br>bearings centre         |                    | Side |
| 5 | Journals &<br>bearings                 |                    |      |

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

- |    |                                  |   |                         |
|----|----------------------------------|---|-------------------------|
| 6  | Cyls., covers,<br>pistons & rods | 7 | Con. rods &<br>top ends |
| 8  | Crankpins &<br>bearings          | 9 | Journals &<br>bearings  |
| 10 | Coolers &<br>safety devices      |   |                         |

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

- |    |                                  |    |                         |
|----|----------------------------------|----|-------------------------|
| 11 | Cyls., covers,<br>pistons & rods | 12 | Con. rods &<br>top ends |
| 13 | Crankpins &<br>bearings          | 14 | Journals &<br>bearings  |

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

- |    |  |    |  |
|----|--|----|--|
| 15 | Casings, rotors,<br>blading, bearings<br>& thrusts | 16 |  |
|----|--|----|--|

17 Reduction  
gearing18 Scavenge  
blowers

19 Superchargers

I recommend that the machinery of this ship remain as classed with/without fresh record of  
CSM (with date) upon completion

(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

WEDNESDAY 31 JUL 1963

Minute

As shown, without specification

Surveyor to Lloyd's Register of Shipping

ALSO FOR

SPL FOR

TRO

SRL

POSTING

HEADER

CERT

Lloyd's Register  
Foundation

013224-013231-0008



Exhaust steam  
turbines (with  
20 recip. eng.)

22 Steam compressors

24 Clutches &amp; hydraulic couplings

26 Steam re-heaters

28 De-super-  
heaters

## Stop & manoeuvring valves

33 Main engine driven pumps

Thrust blocks  
21 shafts & bearings

23 Intermediate shafts & bearings

25                      Condensers  
                             (main & aux.)

27 Air ejectors  
(main & aux.)

Forced &/or induced draught fans

31 Holding down bolts &amp; chocks

32 Detuner or vibration damper

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?

Evaporators  
49 HP & LP

## 50 Distillers

## 51 Fire extinguishing arrangements

Steering  
52 machinery

53 Windlass

## AUXILIARY ENGINES

## PARTICULARS OF DEFECTS, REPAIRS, ALTERATIONS, ETC.

Machinery Repairs:

M.E. Nos. 3 and 4 new cylinder liners fitted (old cylinder liners oversized)

M.E. No. 2 cylinder one new lower piston head fitted out of ship's spare

All four upper pistons cooling water in and outlet bushes fitted by E.W. (old connections corroded)

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.