

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

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

Received London
19 JUL 1965

Ship's Name SS/MS "NUÑEZ DE BALBOA" (LR 525913)

Gross tons 7076 Port of Registry Panama Port Bilbao

Date of build 12-1942 Is there a rpt. 8? Yes Rpt. No. 13984

No. of visits 21 First date 3-5-65 Last date 18-6-65

Interim Cert. issued & copy herewith? Yes Damage rpt. issued & copy herewith? - Last rpt. (H.Q. only)

Date of completing rpt. 30-6-65 Surveyed at, if different from Port above -

Is a rpt. 9B attached? Yes MN (510) Nature of survey ES, MBS, TS (CL) S.P.S.

Survey fees	Damage fee	Expenses
S.P.S. - 2.000 ptas.	Repairs 5.000 ptas.	1.680 ptas.
M.B.S. - 7.260 ptas.		
E.S. - 2.200 ptas.		
S. - 19.800 ptas.		
Equip. 5.280 ptas.		S.A. fee 2.450 ptas.

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

- 1 Cyls., covers, pistons & rods HP., MP and LP good
- 2 Valves & gears HP., MP and LP good
- 3 Con. rods, cross-heads, bearings & guides centre HP., MP and LP good Side
- 4 Crankpins & bearings centre HP., MP and LP good Side
- 5 Journals & bearings all good

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)

- 15 Casings, rotors, blading, bearings, & thrusts
- 16 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 S.P.S., 6.65, TS (CL) 5.65- M.B.S. 6.65 and E.S. 6.65 subject to steering machinery cylinder block cracked (now Metalocked) to be renewed before the end of December 1965 (6 months limit).

(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 1 AUG 1965 Sgd.: J.J.Alday

Minute As new, subject
ES 6.65 MBS 6.65
SPS 6.65 TS 5.65

Surveyor to Lloyd's Register of Shipping

ALSO FOR
SPL FOR
TRO
SRL ✓
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 clearly stated in the report.

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

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

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) **yes**

36 Essential independent pumps Both feed pumps, Ballast pump. General service pump. O.F. burning system pumps. Transfer pump. Main circulating pump. Emergency pump.

37 Bilge, ballast & oil fuel suction lines, fittings & controls **good** 38 Have the remaining piping arrangements & fittings in the machinery space been examined as considered necessary? **Yes**

39 Fresh water coolers 40 Lub. oil coolers

41 Heaters (state service) O.F. installation **good** 42 Feed water filters

43 Auxiliary air receivers & safety devices **feed, good** 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? **yes** 49 Evaporators HP & LP **good** 50 Distillers

51 Fire extinguishing arrangements **good** 52 Steering machinery **good** 53 Windlass **good**

Identify by position

AUXILIARY ENGINES Starboard after inboard and outboard, dynamo steam generators. Starboard fore dynamo steam generator. Diesel auxiliary engine driving emergency pump.

PARTICULARS OF DEFECTS, REPAIRS, ALTERATIONS, ETC.

Main engine.

Found.- All crankpin and journal bearings with white metal broken and melted.

HP-MP-LP guides shoes with white metal melted.

HP-MP-LP eccentric straps with white metal melted and broken.

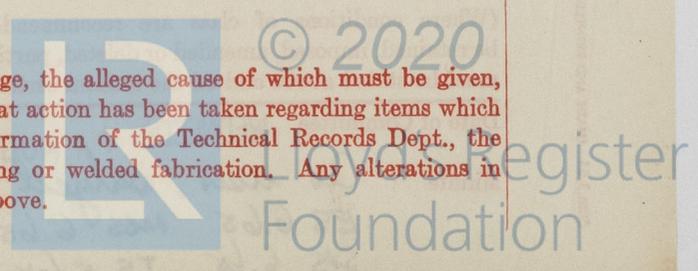
Thrust shaft bearings with white metal melted.

HP-MP-LP slide valve rods bearings very wasted.

7 Holding down bolts broken.

Now done.- All crankpin and journal bearings HP-MP-LP guides shoes and eccentric straps remetalled and 7 holding down bolts renewed. Also thrust shaft bearing, remetalled.

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.



Main and auxiliary condenser.Found. Several tubes corroded.Now done. All tubes corroded renewed.FanFound.- Cylinder cover very wasted.Now done. Cylinder cover renewed.Steam generators.Found. All piston over the three steam generator very wasted.Now done. All piston over the three steam generators renewed.Steam machinery driving main circulating pump.Found.All crankpin and journal bearings with white metal melted.
Now done.

All crankpin and journal bearings remetalled.

Small repairs effected over the rest of pumps.

Steering machinery.Found.

All crankpin and journal bearings with white metal melted and broken. Cylinder covers broken and cylinder with a long crack at its lower part.

Now done.All crankpin and journal bearings renewed. Cylinder covers renewed, and the crack in cylinder lower part metalocked. After metalocked the cylinder ~~is~~ was hydraulically tested, found satisfactory and on completion of the repairs a steel plate was fitted and bolted in the cylinder lower part covering the repair effected with metalock, (see sketch).

It is recommended that the steering machinery cylinder block be renewed before the end of December, 1965.

On completion of the repair Main engine crankshaft and thrust shaft have been re-aligned and found satisfactory.

Due to the unsatisfactory main engine and auxiliary engines functioning, the Owner's Superintendent decided at this time to effect general repair and he has requested that it will be considered as Special Survey Machinery.

