

12th June 4

LRG/AA.

Report of survey held by LEO R. GUNNER on board the S.S. "PUNGUE" of Lisbon, A.L. FERREIRA, Master, at request of Messrs. Salomao, Benoliel & Azancot Ltda in dry dock and afloat.

On examination found:-

Recommended:-

- 1. FORECASTLE WOOD DECK In inefficient condition, many planks wasted and caulking all defective. All planking and margins to lift and defective parts to renew. Scale steel deck etc., and recoat after examination.
- 2. HAWSE PIPES Originally repaired now good -
- 3. CABLE STOPPERS With wood base in poor condition and stoppers unworkable Wood bases be renewed and stoppers overhauled.
- 4. WINDLASS In poor condition, with port end of main shaft broken off at bearing; mooring drum and shaft end not in evidence. Shaft be renewed in one length and windlass opened up for thorough overhaul together with all fastenings, or windlass renewed. Cast iron bracket on port side smashed in way of bearing. Renew. Generally cable lifters and gearing as far as seen good.
- 5. BOW CHOCK PLATE Defective Rivets be renewed starboard side.
- 6. RISER PLATE bent, with beading and rivets broken; *Starboard side.* Fair and re-rivet.
- 7. WOOD DECK in forward DECK In poor condition and caulking defective. Lift and renew necessary planks, scale steel structure and recoat after examination.
- 8. No.1 HATCH COAMING AND COVERS ETC. Good except lower parts of ends and along beading. To un-rivet as necessary clear corrosion and re-rivet, also elsewhere as necessary, scale and recoat. Defective covers to repair or renew including shifting beams. Battening bars to make good and new wedges to supply. Tarpaulins to renew (3 per hatch). Wood margins to lift for examining foundation angles of hatch coamings.
- 9. No.2 ditto - ditto.
- 10. No.3 ditto - ditto.
- 11. BULWARKS, RAILS AND STANCHIONS Generally good except bulwarks in way of washports. Two ports missing in way of forward well. Beading round openings to remove fair plating renew beading and renew or repair ports.

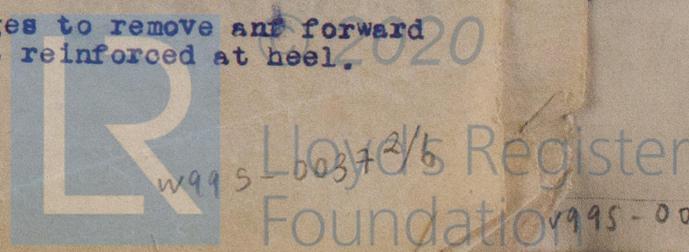
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<u>CEMENT IN WATERWAYS</u>	Good generally but cracked in places.	Repairs effected as necessary.
<u>WATERWAYS BRIDGE DECK</u>	Rusty	To scale and thickness of plate ascertained.
<u>ANCHOR CABLES</u>	In position - length unknown	To range for examination.
<u>ANCHORS</u>	3 stockless Spare of Hall patent type (H 291) 1 stream and 1 kedge, both good.	Working anchors be overhauled and crown shackle of spare to make workable.
<u>BRIDGE DECK WOOD</u>	In poor condition and caulking all defective	To lift as necessary including margins and make good.
<u>BUNKER HATCHES</u>	Generally good except some rivets and beading.	Renew defective rivets and clear rust along beading.
<u>No.1 WINCH</u>	Defective - no whipping shaft or drums etc.	To renew (cheaper than repairing).
<u>No.2 WINCH</u>	Fairly good.	To overhaul.
<u>No.3 WINCH</u>	" "	" "
<u>ACCOMMODATION STEEL HOUSE AMID SHIPS</u>	Riveting defective generally top and several plates corroded. Coaming not examined in way of deck steam pipes.	Wood sheathing to strip for scaling, repairing or renewing defective plating and rivets; deck pipes and casings to remove for examination of coaming.
<u>ENGINE AND BOLLER CASINGS</u>	Sides generally good but top plating in poor condition.	Plating to renew as necessary specially in way of Engine room skylight. Skylight to scrape for examination etc.
<u>GALLEY</u>	Steel deck under galley partly corroded.	To drop and renew as necessary.
<u>BRIDGE STEEL DECK</u>	Corroded through on starboard side in way of accommodation abreast engine room.	To renew defective plate. Stringer to drill for ascertaining thickness where necessary. Plating to drill elsewhere as may be required.
<u>RAISED QUARTER DECK</u>	Wood deck poor condition and caulking all defective. Plating in way of deck piece for rudder stock very thin.	To lift as necessary including margins and make good. Renew two plates in way of deck piece.
<u>RAISED QUARTER STEEL DECK</u>	Under recess under engineers accommodation corroded, generally on port side.	To renew or double.
<u>HATCHES</u>	See item No. 10.	
<u>WINCHES</u>	" " 21.	
<u>WATERWAYS</u>	" " 13.	
<u>BULWARKS, RAILS AND STANCHIONS.</u>	" " 12.	
<u>MASTS</u>	Apparently good - mast wedges not removed - except forward mast heel which is wasted and bends under hammer.	Wedges to remove and forward mast reinforced at heel.

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| 32. <u>WIRE ROPE RIGGING.</u>                  | As far as seen good but in dirty condition.<br><br>Stretching screws appear good.  | To clean, bends stripped as necessary at hounds and deadeyes.<br>Housings to remove and screws examined.   |
| 33. <u>WIRE ROPE STAYS ETC.</u>                | do.  | do.  |
| 34. <u>LIFEBOATS</u>                           | One port, one starboard, abreast E.R. skylight in bad condition.<br><br>One small abreast starboard side of navigation bridge in fair condition, equipment not examined. | To renew to international requirements. Chocks to repair and covers renew.<br>To overhaul and made good to meet international requirements. Chocks to repair and covers renew. |
| 35. <u>SERVICE BOAT</u>                        | One in poor condition but usable   | To overhaul if kept - preferably replaced.   |
| 36. <u>BOAT DAVITS ETC.</u>                    | Fair - falls defective.  | To overhaul, make efficient all falls to renew and also blocks and all tackles overhauled and made efficient,  |
| 37. <u>BOAT DECK</u>                           | Wood, defective generally.   | About two thirds to renew including part in way of admidships accommodation.   |
| 38. <u>VENTILATORS</u>                         | Coamings apparently good<br>Cowls ditto but several require repairs.   | Coamings to scale internally for further examination. No covers seen and if not available to supply, fit and number, for deck ventilator coamings.                             |
| 39. <u>MOORING ROPES OR WIRES.</u>             |  | All to renew as necessary.   |
| 40. <u>TOWLINE</u>                             | Not seen but stated on board.  | To range for examination.  |
| 41. <u>STREAM LINE OR CHAIN</u>                | ditto.   | ditto.   |
| 42. <u>STEAM GEERING GEAR ETC.</u>             | Appears good generally.  | To overhaul, chains removed and fired, and all fairleads overhauled also rods, quadrant, fastenings, etc.  |
| 43. <u>STEERING HAND GEAR</u>                  | Crosshead smashed at both ends.  | To renew, gear overhauled and made efficient.  |
| 44. <u>CARGO GEAR BOOMS TOPPING LIFTS ETC.</u> | Fair to good condition.  | All to thoroughly overall and make safe and efficient renewing falls etc. as necessary.  |
| 45. <u>FUNNEL</u>                              | Good, top not examined but as far as seen, efficient.  |  |
| 46. <u>FOREPEAK</u>                            | Dry (no tank). Generally good except lower part where frames somewhat thinned and reverses distorted by rust.  | Small sections to scale and reverses to unrivet to scale.  |

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CHAIN LOCKER

Chains stowed - several frames somewhat corroded at edges - reverses where fitted wasted.

Chains to remove for further examination - weakened frames to reinforce - wasted reverses to renew and other parts to make good as necessary.

CHAIN LOCKER PARTITION BULKHEAD.

Patched at lower ends.

To reinforce properly.

COLLISION BULKHEAD

Generally good except lower plates which are apparently thinned.

To drill lower plates for thickness and extra stiffeners fitted if found necessary.

BOILER ROOM BULKHEAD W.T.

Not properly examined on account of wood sheathing forward side. Lower plates at wings corroded through.

To clear all wood work, scale for further examination and defective plates renewed; drill where considered necessary.

ENGINE ROOM BULKHEAD W.T.

Corroded at lower wings and along bottom thinned otherwise appears good.

To drill for ascertaining thickness and defective plates to renew.

AFTERPEAK BULKHEAD

Appears good. Ventilator to tunnel defective.

To drill as necessary to ascertain thickness. Lower part of ventilator to renew.

FORWARD HOLD

Frames, stringers, bilge knees etc. generally good, but some reverses on knees wasted, also frames immediately above cement at ceiling. Deck beams, knees, etc. good.

To scale as necessary and wasted reverses to crop at approved position and renew. Frames where defective to reinforce as may be approved.

PANTING ARRANGEMENT

Good.

HOLD STANCHIONS

Generally good but several bent.

Bent stanchions to fair and head and foot fastenings examined with special attention to structure under feet.

AFTER HOLD

Same remarks apply as for items Nos. 53 & 55.

HOLD STRINGERS

Generally good but lower one opened up in places with rust.

To unrevet as necessary clear rust and re rivet.

TUNNEL

As far as seen in fair condition but 2 plates are corroded and thin.

Plating be scaled externally and internally at lower parts for further examination. Two wasted plates to remove and renew. Plating to drill as may be required.

TUNNEL STOOLS

Good but dirty etc.

To scale and clean for further examination.

TANK TOP AND MARGINS

Ceiling in position but parts of plating seen, good.

All ceiling be lifted and tank top scaled.

TANKS IN DOUBLE BOTTOM

Not seen as filled.

All to open, scale and examine.

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NOT CLASSIFIED

TANK DOUBLE BOTTOM UNDER BOILERS Not seen, but it is known floors are badly wasted including centre girder and tank top.

AFTER PEAK Compartment above tank good except tank top which is thin in places. To scale on under side and repair or renew as necessary.

AFTER PEAK TANK Good but corrosion in evidence To thoroughly scale.

RUDDER TRUNK All corroded. To renew.

RUDDER STOCK Not seen - no plates over trunk opening. To scale and examine when trunk is cut away. Plates to fit over lower end of trunk.

RUDDER ETC. Good.

HULL PLATING From "A" to "F" strakes, good, outside recoated. From "F" strake to sheer good with exception of plating abreast No. 1 hatch which is somewhat distorted on starboard side in second plate below sheer and 1st strake appears wasted somewhat in way of scupper drainage. To scale internally as necessary. To scale inside and out as necessary and plates drilled as required.

STEM Good - has shoe from forefoot to 9 ft. mark, all of which is corroded on port side. Shoe to renew as convenient.

ROLLING CHOCKS Good.

STERN FRAME Good.

KEEL BAR WITH GARBOARD STRAKES Good.

BUNKERS Main, as far as seen, good except a number of frames immediately above cement above side ceiling; some coal in both sides. Tween deck - some upper deck frames wasted above waterway and rust with dit in evidence. Stringer plates wasted generally in way of bunker hatch P & S To clear coal, lift ceiling scale all parts as necessary for further examination. Frames where wasted to bracket

Upper deck thin in way of forward bunker hatch and specially so in way of hold vents, six plates wasted through. Wasted stringer plates to renew or double. All parts to scale and clean for further examination. Plating to drill for thickness and doublings fitted in way of ventilators; wasted plates to renew.

BUNKER Rusty and some rivets defective - end of beams wasted somewhat near to coamings. To scale and parts attended to as necessary.

GENERALLY All steel work throughout vessel has here and there parts dirty and rusty. To scale and clean all parts as necessary for examination and subsequent recoating.

PROPELLER Good - also spare - both cast iron.

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