

11th May, 1946.

SCHEDULE OF WORK CARRIED OUT BY BLUNDELLS & T. ALBERT CROMPTON
& CO. LTD., WEST INDIA DOCK ROAD, LIMEHOUSE, LONDON, E.14
ON THE s.s. "JOSE DIAZ" BETWEEN 22ND FEBRUARY & 11TH MAY, 1946.

REF: W/O 4076.ENGINE DEPARTMENT.

1. Thrust shoes disconnected and taken to Works. Old white metal liners removed, sizes taken and new white metal liners cast, machined and fitted to all shoes. All shoes scaled and cleaned on water side.
2. 3 sets of metallic packing supplied and fitted to piston rods and 3 sets for slide valve rods.
3. Defective low pressure engine crosshead removed, new crosshead forged, machined and fitted.
4. Disc valves - 16 sets supplied for feed pumps.
5. Disc valves for air pump supplied and fitted.
6. Gauge made and supplied for checking wear down of main engine crankshaft.
7. New valves and seatings made and fitted to Drain valves on I.P. and L.P. Cylinders.
8. Reversing engine cylinder rebored, new piston made and fitted, together with new rings.
9. Reversing engine. Piston valve chamber bored out and new valve fitted. New steam stop valve supplied and fitted.
10. Feed water drain pipe. Inspection door removed from main engine pump. Coil disconnected and taken to Works. Annealed, tested and defective nipple rebrazed. Coil returned and rejointed in place.
11. H.P. cylinder bored out and new piston and ring supplied and fitted. Engine lined up.
12. Old superheating equipment removed and new installation complete supplied and fitted to both boilers.
13. Boilers. Patterns made and 100 plain and 12 special firebars cast.
14. -----
15. 2 pyrometers repaired and recalibrated.
16. Boilers put under survey and necessary repairs carried out as under. LLOYDS.

Port Boiler. Boiler scaled and cleaned. All mountings opened up, valves and seats machined as required. Valves closed up on completion of survey. 2 complete sets of water gauge mountings supplied and fitted. Boiler filled and tested to ascertain general condition. Boiler emptied. Gear taken on board and starboard furnace jacked up. 8 defective stays removed, 8 new stays made and fitted. Tubes expanded. Test cocks overhauled. One internal feed pipe renewed. Boiler tested and passed by Lloyds Surveyor.

Starboard Boiler. Boiler scaled and cleaned, all mountings opened up, valves and seats machined as required. Valves closed up on completion of survey. 2 complete sets of water gauge fittings supplied and fitted. Boiler filled and tested to ascertain general condition. Boiler emptied. Tubes expanded as required, one defective Soot Blower tube removed, new steel tube supplied, fitted and expanded in place. 2 internal feed pipes and one scum pipe renewed. One defective scum valve chest removed, new gunmetal chest supplied and fitted. Test cocks overhauled. Boiler tested and passed by Lloyds Surveyor.

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17. New cast iron header for feed water heater supplied and fitted, all tubes renewed. New C.I. cover jointed to shell. Heater tested.
18. Patterns made and new cast iron feed water filter supplied, valves and seats machined and fitted complete with by-pass valves.
19. Old dynamo removed, new steel stool made and fitted, owners new dynamo installed, new steam and exhaust pipes made and fitted, and wiring renewed as required. 2 - 2" gunmetal exhaust valves supplied and fitted on exhaust lines. 2 - 1 3/4" gunmetal valves supplied and fitted on steam line. One 2" reducing valve supplied and fitted on steam line.
20. Windlass crankshaft removed and taken to Works, new steel clutch and pinion made and fitted. Crankshaft returned and refitted.
21. Winch crankshaft removed and taken to Works, particulars taken of pinions, patterns made and 6 cast steel pinions made, machined and delivered on board with shaft.
22. 25' of 3 1/2" diam. deck steam pipe made up and fitted.
23. New steam stop valve supplied and fitted on No. 6 Winch.
24. 48, 3/4" hex nipples, 36, 3/4" Elbows, 24, 3/4" Tees and 16, 3/4" M.I. Unions supplied for steam heating to crew's quarters forward and assistance given to fit same.
25. New 30 cwt set of chain blocks supplied.
26. All Engineroom and stokehold pressure gauges removed, taken to Works, recalibrated and refitted.
27. New fresh water lines run to crews' after accommodation and new sink fitted in galley.
28. Two main feed pump relief valve springs supplied to pattern.
29. Steering Engine Stop Valve. Seat and spindle of stop valve renewed. Drain valve renewed.
30. Bilge pump suction pipe renewed.
31. No. 2 Winch steam pipe renewed.
32. H.P. cylinder cover stud renewed. One broken stud drilled out.
33. Drain valve renewed on Main Steam Line.
34. Master Deck Steam Valve. Seat drawn, new gunmetal seat cast, machined and fitted.
35. Saturated steam valve. Valve collected and machined in Works, returned on board.
36. One new monel metal Auxiliary Steam Master Valve supplied and fitted.
37. No. 2 Winch reversing shaft renewed. Old shaft collected and taken to Works, fittings from old shaft fitted on new shaft.
38. Winch Gear. All the following supplied. 6 pair bottom end brasses, 10 C.I. piston rings, 12 springs for slide valves, 1 top end pin and brass for No. 1 Winch. One new crank disc and pin fitted and new pin fitted to opposite disc.
24 special studs supplied for slide valve ~~spring~~ springs.



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39. Ballast Pump steam and water valves overhauled. Valves machined.
40. Mooring Winch exhaust valve collected, taken to Works, machined and returned on board.
41. Feed Pumps.
Exhaust steam valve machined and ground into seat. Deck discharge valve machined and returned on board. Pump piston and bucket rods taken to Works. Suction and delivery valve chest disconnected and taken to Works, new piston and bucket rods made and fitted to old crosshead. Suction and delivery valve chest opened up, valves and seats drawn, casting bored out and new seats and valves fitted. All parts returned on board and assembled in place.
42. Port and Starboard Ballast Tanks, valves taken to Works, machined and returned on board.
43. Main Engine Stop Valve. Stop valve chest opened up, valve and spindle taken to Works. Main and pilot valves machined, new spindle made and fitted, parts returned on board, valves ground into seatings. Stop valve closed up.
44. No. 1 Ballast tank suction valve cover, valve and spindle taken to Works, valve machined and new gunmetal valve fitted to cover. Parts returned on board.
45. Two bilge suction valves collected and machined, and one new gunmetal valve supplied in addition.
46. Petrol pump taken on board, rigged up and engine room bilges pumped dry.
47. New pyrometer supplied and fitted on Main Steam Line.
48. Steel division plate supplied for mudbox.
49. Engine room wiring overhauled and made good ~~where~~ ^{where} defective.

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DECK DEPARTMENT.

1. Plate patch cut and fitted on port side of "tweendeck", No.2 Hold, approximate size 3' x 4' and welded in place.
2. 1 Bilge Strum Box supplied to pattern.
3. Plate patch cut and fitted on stbd. side of upper deck, size 3' x 4' and welded in place.
4. Plate patch cut, fitted and welded Stbd. side of bulwark, approximately 3' x 3'.
5. Ring welded on No.2 Hatch coaming.
6. Two Wood Locking Bars made for cops of hatches.
7. Beams and sockets warmed and faired in No.2 and 3 Holds, "Tweendeck".
8. One new cable plough supplied and fitted.
9. 2 new companion ladders made complete with platforms and brackets, stanchions and ropes, two new davits with brackets complete supplied and fitted for same.
10. Bracket made and fitted on stern rail for mechanical log.
11. Two gripes and griping spars made and fitted for lifeboats.
12. Two hot water boilers supplied and fitted, one in buffet and one in galley. Steam and exhaust lines and water supply run to each.
13. Five deck water service standpipes removed and 5 gunmetal fire valves supplied and fitted with new standpipes.
14. Anchor cables ranged in barges. Shackles removed, cables examined by surveyor and 4 new lengths recommended, two new shackles supplied and fitted, cable coupled up, cables shipped and stowed. New cables to be dealt with by owners.
15. Deckhead over Captain's room cleaned and caulked with oakum.
16. Broken hinges on steering gear casing warmed, faired and rewelded in place.
17. One new 6' x 3' x 1/8" steel casing plate cut and fitted in engineroom in way of stbd. boiler.
18. New sink and draining board supplied and fitted in galley, necessary water supply and waste pipes fitted.

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Vessel docked, shored and undocked.

Services of tugs and pilot to shift vessel to and from berth to dry dock.

Bottom of vessel scrubbed and cleaned.

Bottom painted 1 Coat A.C. and 1 coat A.F.

Draft marks painted in.

Staging erected port and stbd. sides, attended on and afterwards cleared away.

Wear down of tail end shaft measured and verified. Rope guard removed for access and afterwards refitted and electrically welded.

Staging erected, attended on and afterwards cleared away.

Plug removed from rudder, afterwards rejoined and refitted. Casing over rudder disconnected, lifted clear, disconnected from quadrant, locking pintle disconnected, tail plate removed, disconnected removed, stream line plates in way of gudgeons cut away, rudder lifted and all pintles and bushes examined. 1 new steel collar bush made, supplied and fitted. All pintle nuts tested and hardened up, new split pins supplied and fitted, rudder lowered, locking pintle refitted, chains hand gear, casing and tail plate all refitted. Streamline plates refitted and electrically welded. Staging erected, attended and afterwards cleared away.

2 plugs in bottom in way of E.R. bilge disconnected and rejoined, and refitted.

Approx. 5 ft. bilge keel stbd. side amidships cut out, heated, faired, refitted and electrically welded, new length angle bar supplied, fitted and electrically welded. Staging erected, attended on and afterwards cleared away.

Sea cocks and valves opened out, lids ground into seats, glands repacked, covers rejoined and all closed up.

Gland studs renewed where required.

New pin supplied and fitted to blowdown cock handle.

Electricity supplied for temporary lighting.



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