

C. 2685

NEWCASTLE-on-TYNE,

19th September, 1919.

W. TINDALE & S. MURDOCH

the Ministry of Shipping in conjunction with Mr. Nordmark representing the Norske Veritas Society (acting on behalf of the German Government) and Mr. Wörke, representing the Appointed Managers, survey the Machinery and Boilers and equipment of the German Surrendered Steel Screw Steamer "JAVARY" 5500 tons gross register of London on the 28th July, 1919 and subsequent dates, while lying afloat and in dry dock at the Mercantile Dry Dock Co's Yard on the River Tyne.

The following Certificates and papers found on board, examined and contents noted: -

Germanischer Lloyd's * 100 *A* with freeboard.

Berlin NW, Alsen.

Maschineu - Zertifikat

"JAVARY"

The vessel was dry docked this time, and all parts of machinery and boilers examined, defects noted and repaired



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MARY

repaired where necessary as follows -

Examined - Cylinders, piston, slide valves, pumps, condenser, all shafting and bearings, ~~Ciderval~~ bush inside and outside, propeller, sea valves and their fastenings, steam steering gear, all auxiliary machinery, Main Boilers internally and externally, superheaters, and all boiler mountings.

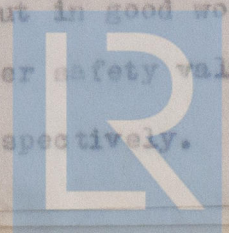
Found - Three ribs in way of top port of LP cylinder cracked and efficiently repaired with the cylinder cover joint studs fitted through into the cylinder casting. Tunnel shafting slightly out of line, coupling bolts removed, and shaft lined up in order. Screw shaft drawn and examined, no liner on shaft, ~~Ciderval~~ bush inside and outside, all in good order (wear at bush $1/32"$) one propeller blade found 27" broken off, and new spare blade fitted. Sea valves and fastenings examined and found in good order. Aspinall's patent Governor, parts missing, missing parts renewed, and governor put in good order. Condenser and steam steering engine - examined and found in good order. Auxiliary pumps examined found General Service pump water piston packing missing, pumps overhauled and put in good order.

The sight feed oiling apparatus overhauled and put in good order, steam and vacuum gauges in German notation renewed with English gauges.

Dynamo LP cylinder cover fractured and renewed.

Main boilers examined internally and externally and all their mountings and found in good condition. Superheater examined found several joints in way of elements leaky, and tubes cracked, joints remade and tubes renewed where required. Boiler mountings overhauled and put in good working condition.

Main Boiler and superheater safety valves adjusted under steam to 205 and 210 lbs respectively.



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"JAVARY"

The Machinery and Boilers of this vessel are as far as can be judged from the examination made in good order and safe working condition and well equipped with spare gear and fit for oversea voyages for a period of twelve months.

The following Engine Room equipment was found on board :-

- Coal on board 8 a.m. 22/7/19 22 tons (bad quality)
- 60 galls engine oil.
- 15 galls cylinder oil.
- 5 each 1", 1 1/2", 2", 2 1/2", 3", 3 1/2" bolts and nuts.
- 1 bar zinc about 12"x 2".
- 2 file handles.
- 2 Packing sticks.
- 3 On Water gauge glasses.
- 1 Canvas hose.
- 18 Air pump valves.
- 6 Driving chisels.
- 2 Punches.
- 12 Steel Wedges.
- 10 assorted files.
- 3 Fixed vices.
- 4 Flat chisels.
- 2 cross cut chisels.
- 2 Flat scrapers.
- 2 Triangle scrapers.
- 1 pair lead grips.
- 2 screw clamps.
- 1 swan neck.
- 1 borer strap.
- 2 ratchet drillers.
- 12 drills.
- 1 Breast borer.
- 4 Hand hammers.
- 1 Hack saw frame.
- 1 reamer for couplings.
- 2 angle reamers.
- 4 tap wrenches.
- 1 set tap and dies (not on board 1/4" to 1/2" and dies (1/4" to 5/16" tap 1 each 1/4", 1/2", 3/4" tap) supplied
- 1 set metal letters and numbers.
- 2 sliders.
- 16 eye bolts.
- 6 shackles.
- 2 bar chisels.
- 1 mechanism for dismounting propeller.
- 4 bolts for lifting piston cover.
- 3 flange bars for crosshead.
- 1 desk in engine room.
- 1 ram block.
- 2 crow bars.
- 2 wood chisels.
- 1 gimlet.
- 3 packing drawers.
- 1 screw driver.
- 1 hatchet.
- 1 gas tube.tongh.
- 1 fire knife.

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Engine Room Equipment (Contd.)

- 6 scrapers for iron.
- 3 " for wood.
- 1 ladle.
- 1 soldering iron.
- 2 zinc hammers.
- 8 Oil tanks.
- 1 oil cock.
- 1 oil funnel.
- 6 oil jugs.
- 1 oil syringe.
- 6 oil caps.
- 1 petroleum tank.
- 1 tallow tank.
- 1 tallow box.
- 4 lamps for engine room.
- 3 zinc buckets.
- 4 water gauge lamps.
- 12 hand lamps (various)
- 1 lamp brush.
- 2 drinking cans.
- 1 forge.
- 1 anvil and foot.
- 2 sledge hammers.
- 1 hand forge hammer.
- 4 forge tongs.
- 1 plane.
- 1 trowel.
- 1 masons hammer.
- 2 tube expanders.
- 1 clock.
- 1 telegraph.
- 1 revolution counter.
- 1 indicator.
- 23 gauges.
- 3 vacuum gauges.
- 1 thermometer on feed heater.
- 1 metal salinometer.
- 1 glass salinometer.
- 1 salinometer pot.
- 2 patent chain blocks.
- 1 lifting screw.
- 3 cylinder cover supports.
- 2 lifting irons for condenser doors.
- 51 spanners of various sizes.
- 2 pair outside callipers.
- 1 pair inside callipers.
- 1 weigh beam.
- 6 valve regulating plates.
- 1 telescope gauge.
- 8 stay tubes.
- 30 Boiler tubes.
- 1 manhole door.
- 18 baffle plates.
- 14 Boiler tube stoppers.
- 34 fire bars.
- 12 side fire bars.
- 3 platform plates.
- 1 rod for tube scraper.
- 80 retarders.
- 1 pair fire bar tongs.



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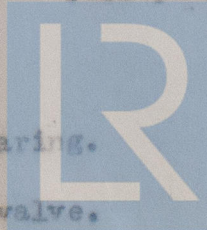
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Engine Room Equipment (Contd)

- 3 coal hammers.
- 4 ash buckets.
- 2 iron water buckets.
- 6 coal buckets.
- 6 firing shovels.
- 1 forcedraught measure (fixed)
- 1 forced draught measure (testing)
- Firing tools.
- 1 propeller box.
- 2 blades.
- 1 tail shaft.
- 1 shaft coupling box.
- 30 condenser tubes.
- 6 spiral springs, 1 safety valve, 1 water valve, 4 slide valves.
- 4 HP piston rings.
- 3 HP " "
- 1 LP " "
- 1 set metal packing, piston rod.
- 1 do valve rod.
- 20 piston screws.
- 10 stud bolts.
- 6 stud bolts for stuffing boxes.
- 2 bolts for crank bearing.
- 4 do crosshead.
- 2 do shaft bearing.
- 6 do coupling.
- 6 do crank shaft.
- 1 valve rod.
- 1 Eye and bearing for valve rod.
- 1 crank bearing.
- 2 crosshead pillars .
- 2 links for slide lever.
- 1 piston and rod for air pump.
- 1 valve seat do.
- 2 " " for sanitary pump.
- 2 " " bilge "
- 2 valves for sanitary pump.
- 2 " " bilge "
- 2 stop valve spindles.
- 2 adjusting bolts for bilge valves.
- 2 " " sanitary "
- 2 Feed valves and spindles.
- 8 Glass accumulators.
- 32 positive plates.
- 24 negative plates.
- 1 portable lamp in cabin.
- 4 Clusters.
- 5 Hand lamps.
- 2 Volt meters.
- 1 amp meter.
- 1 each suction and discharge grating and valves for main feed pumps.
- Centrifugal pump.
- 1 wheel shaft.
- 1 piston and ring.
- 1 piston rod with bearing.
- 1 connecting rod with eye bearing.
- 2 Main bearing bolts.
- 1 spring for super pressure valve.



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7SAVARY

Engine Room Equipment (Contd)

Electric

- Valve rods.
- 1 high pressure cover.
- 1 high pressure piston
- 1 connecting rod complete.

Enginier
Wm Findale George Murdoch
Surveyors to Lloyd's Register of Shipping
Newcastle on Tyne



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