

Engine
Donkey

List of Spare Gear for the Machinery of
Screw Motor Vessel "Y A N D R A" of Port Adelaide

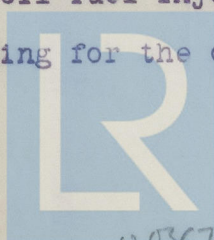
Burmeister & Wain's Yard No. 555.

" " Eng. No. 1502.

Cpn. Rpt. No.

Main Diesel Engine.

- 1 cylinder cover complete with studs and nuts for fastening of valves, cylinder liners and water jackets complete.
- 1 set of studs and nuts for one cylinder cover.
- 1 safety valve complete with spring etc.
- 1 cylinder liner.
- 1 trunk piston complete with piston rings.
- 2 crosshead gudgeon pins.
- 24 piston rings.
- 6 scraping rings.
- 4 telescopic cooling pipes for pistons.
- 1 stuffing box for telescopic pipes.
- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 set of crosshead gudgeon bearing brasses.
- 1 set of bolts and nuts for one crank shaft coupling.
- 2 oil fuel injection valves complete with springs etc. ready for use.
- 7 valve discs and spindles for the oil fuel injection valves.
- 4 bottom ends " " " " " "
- 2 spindles for overflow valve to " " " " "
- 12 safety caps for the oil fuel injection valves.
- 12 guards for safety caps for the oil fuel injection valves.
- A quantity of Garlocks patent packing for the oil fuel injection spindles.



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- ✓ 6 exhaust valves complete with springs etc. ready for use.
- ✓ 6 valve discs and spindles for the exhaust valves.
- ✓ 6 bottom pieces for the exhaust valves.
- ✓ 1 steel nut " " " "
- ✓ 1 air inlet valves complete with springs etc. ready for use.
- ✓ 2 valve discs and spindles for the air inlet valves.
- ✓ 2 adjusting screws " " " " "
- ✓ 1 starting air valve complete with spring etc. ready for use.
- ✓ 2 valve discs and spindles for the starting air valves.
- ✓ 1 cam roller with bolt for the oil fuel valve lifting gear.
- ✓ 1 cam roller with bolt for the exhaust valve lifting gear.
- ✓ 1 cam roller with bolt for the air inlet valve lifting gear.
- ✓ 1 cam roller with bolt for the starting air valve lifting gear.
- ✓ 1 cam sheave complete for the oil fuel valve lifting gear.
- ✓ 1 cam sheave complete for the exhaust valve lifting gear.
- ✓ 6 plunger piston for the oil fuel pressure pumps.
- ✓ 1 suction valve for the oil fuel pressure pumps.
- ✓ 1 delivery valve for the oil fuel pressure pumps.
- ✓ 5 packing rings for the pump pistons.
- ✓ 6 safety caps for the starting air piping.

Main air compressor:-

- ✓ 1 pair of crank pin bearing brasses.
- ✓ 2 crank pin bearing bolts and nuts.
- ✓ 1 pair of crosshead gudgeon bearing brasses.
- ✓ 1 compressor piston complete.
- ✓ 8 L.P. piston rings.
- ✓ 10 M.P. piston rings.
- ✓ 2 M.P. piston scraping rings.
- ✓ 21 H.P. piston rings.
- ✓ 3 H.P. piston scraping rings.
- ✓ 6 L.P. suction valves complete with seat & spring etc. ready for use.
- ✓ 6 L.P. delivery valves complete with seat & spring etc. ready for use.



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2 M.P. suction valves complete with seat & spring etc. ready for use.

2 M.P. delivery valves complete with seat & spring etc. ready for use.

1 H.P. suction valve complete with seat & spring etc. ready for use.

1 H.P. delivery valve do. do. do. do.

12 L.P. suction valve discs.

12 L.P. delivery " "

6 M.P. suction " "

6 M.P. delivery " "

6 H.P. suction " "

6 H.P. delivery " "

1 copper H.P. air cooling coil with flange and union ready for use.

8 valve spindles suitable for the valves on the high pressure injection air bottles.

A number of springs suitable for each size and design used at the main engine and main air compressor.

Main engine bilge and sanitary pumps.

3 suction valve discs, seats and springs complete.

3 delivery " " " " " "

Auxiliary Diesel oil engine:-

4 combined cylinder covers & liners with cooling water jacket complete, with studs and nuts fastening of valves etc. ready for use.

1 complete set of studs and nuts for ~~th~~ one cylinder cover.

2 safety valves complete for cylinder covers.

4 trunk pistons with piston rings complete.

2 crosshead gudgeon pins.

120 piston rings.

10 piston scraping rings.

1 - one throw crank shaft.



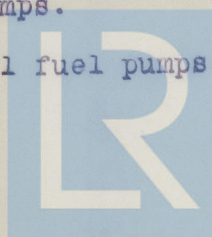
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- ✓ 1 - two throw crank shaft.
- ✓ 12 bolts with nuts for the crank shaft couplings to the dynamos.
- ✓ 4 pair of main bearing brasses.
- ✓ 2 main bearing studs and nuts.
- ✓ 2 pair of crank pin bearing brasses.
- ✓ 4 crank pin bearing bolts and nuts.
- ✓ 2 crosshead gudgeon bearing brasses.
- ✓ 8 oil fuel injection valves complete with springs etc. ready for use.
- ✓ 6 spindles and discs for the oil fuel injection valves.
- ✓ 6 bottom ends for the oil fuel injection valves.
- ✓ 4 injection cone ends for the oil fuel injection valves.
- ✓ 2 spindles for overflow valves to the oil fuel injection valves.
- ✓ 12 safety caps for the oil fuel injection valves.
- ✓ A quantity of Garlocks patent packing for the oil fuel injection valve spindles.
- ✓ 1 air inlet valve complete with spring etc. ready for use.
- ✓ 2 spindles and discs for the air inlet valves.
- ✓ 4 exhaust valves complete with spring etc. ready for use.
- ✓ 10 valve discs for the exhaust valves.
- ✓ 1 spindle " " " "
- ✓ 1 starting air valve complete with spring etc. ready for use.
- ✓ 2 spindles for the starting air valves.
- ✓ 10 spindle rings for " " "
- ✓ 1 cam and cam roller with bolt for oil fuel valve lifting gear.
- ✓ 1 cam and cam roller with bolt for the air inlet valve lifting gear.
- ✓ 1 cam and cam roller with bolt for the exhaust valve lifting gear.
- ✓ 1 cam roller with bolt for the starting air valve lifting gear.
- ✓ 1 oil fuel pump complete.
- ✓ 5 plunger pistons for the oil fuel pumps.
- ✓ 3 guide rods for the oil fuel pumps.
- ✓ 2 crossheads complete for the oil fuel pumps.



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- 5 suction valves for the oil fuel pumps.
- 5 delivery valves for the oil fuel pumps.
- 28 stuffing box packing rings for the oil fuel pump plunger pistons.
- 3 springs for the oil fuel pump suction valves.
- 3 springs for the oil fuel pump delivery valves.
- 2 springs for the oil fuel pump delivery valves.
- 1 distributor valve complete for the oil fuel pumps.

Auxiliary air compressors:-

- 2 pair of crank pin bearing brasses.
- 4 crank pin bearing bolts and nuts.
- 2 crosshead gudgeon bearing brasses.
- 1 H.P. cylinder with studs and nuts complete.
- 1 H.P. piston complete.
- 53 H.P. piston rings.
- 8 H.P. intermediate piston rings.
- 10 H.P. piston scraping rings.
- 25 M.P. piston rings.
- 10 M.P. piston scraping rings.
- 32 L.P. piston rings.
- 6 L.P. piston scraping rings.
- A number of H.P., M.P. & L.P. piston rings rough turned.
- 3 H.P. suction valves complete with seat, spring etc. ready for use.

- | | | | | |
|------------------------------|-----|-----|-----|-----|
| 3 H.P. delivery | do. | do | do. | do. |
| 2 M.P. suction | do. | do. | do. | do. |
| 2 M.P. delivery | do. | do | do. | do. |
| 8 L.P. suction | do. | do. | do. | do. |
| 5 L.P. delivery | do. | do. | do. | do. |
| 12 H.P. suction valve discs. | | | | |
| 8 H.P. delivery valve discs. | | | | |
| 7 M.P. suction valve discs. | | | | |
| 7 M.P. delivery valve discs. | | | | |



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8 L.P. suction valve discs.

8 L.P. delivery valve discs.

1 copper H.P. and 1 L.P. air cooling coils with flanges and unions ready for use.

A number of springs suitable for each size and design used at the auxiliary engines and auxiliary air compressors.

6 valve spindles suitable for the valves on the high pressure air bottles.

A number of assorted rubber packing rings suitable for each size used at the engines and air compressors.

A quantity of "Krupps" and "Palmetto" packing material.

Various lengths of steel and copper pipes of each size used for the fuel delivery and injection air pipes to the main and auxiliary power cylinders and the air delivery from the main and auxiliary air compressors to the receivers, with unions, cone ends, flanges etc. suitable for each.

12 brass tubes for the main lubricating oil cooler.

A number of assorted bolts and nuts.

1 propeller shaft with nut and key.

6 bolts and nuts for one intermediate shaft coupling.

1 cast iron propeller.

Bilge and sanitary pumps.

1 suction valve discs, seat and spring.

1 delivery valve disc, seat and spring.

1 ball bearing.

1 escape valve spring.

Cooling water pump.

2 ball bearings.

Lubricating oil pump.

1 roller bearing.

1 escape valve spring.



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1 spring for safety valve on the starting air receiver.

Generators and electro motors.

For 66 K.W. generators.

1 armature complete.
 $\frac{1}{4}$ set of armature coils.
 1 set of shunt field coils.
 1 set of serie fiel coils.
 1 interpole coil.
 4 set of carbon brushes.
 $1\frac{1}{2}$ set of brushholders.
 1 set of mica rings commutators.

For 33 K.W. generator:-

1 armature complete.
 $\frac{1}{4}$ set of armature coils.
 1 set of shunt field coils.
 1 set of serie field coils.
 1 interpole coil.
 3 set of carbon brushes.
 $1\frac{1}{2}$ set of brush holders.
 1 set of mica rings for commutators.

For the motor to the cooling water pump and lubricating oil pump.

1 armature with shaft complete.
 $\frac{1}{4}$ set of armature coils.
 1 set of field coils.
 1 interpole coil.
 3 sets of carbon brushholders with flexible connections.
 $1\frac{1}{2}$ set of brushholders.
 1 set of ball bearings.

For the motor to the bilge and sanitary pumps.

1 armature with shaft complete.
 $\frac{1}{4}$ set of armature coils.



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- 1 set of field coils.
- 1 interpole coil.
- 2 sets of carbon brushes with flexible connections.
- 1 line of brushholders.
- 2 sets of ball bearings.

For the motor to the oil fuel transfer pump and lubricating oil pump.

- 1 armature with shaft complete.
- $\frac{1}{4}$ set of armature coils.
- 1 set of field coils.
- 1 interpole coil.
- 2 sets of carbon brushes with flexible connections.
- 1 line of brushholders.
- 1 set of ball bearings.

For the motor to the main engine turning gear.

- 1 armature with shaft complete.
- $\frac{1}{4}$ set of armature coils.
- 1 set of field coils.
- 1 interpole coils.
- 2 sets of carbon brushes with flexible connections.
- 1 line of brush holders.
- 1 set of ball bearings.

A quantity of fuses, switches, contact brushes, contact fingers, spark blocks, copper rollers, porcelain rollers, minimal coils, resistance, lamps, lamp holders, fittings suitable for the electric installation.



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List of Spare Gear
for the machinery of the
Motor Vessel "YANDRA"
of Port Adelaide
Burmeister & Wain's No 555.
Copenhagen Dpt. No 7808.

Engine room, main engine, auxiliary engine, boiler, condenser, pump, valve gear, etc.

main engine, auxiliary engine, boiler, condenser, pump, valve gear, etc.

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