

Copenhagen Report No.

List of Spare Gear for the Machinery of the
Steel Screw Motor Vessel "MINNIPA" of Port Adelaide

Messrs. Burmeister & Wain's Yard No. 346

" " " Eng. No. 1297.

Main Diesel Oil Engine.

- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 pair of connecting rod top end brasses.
- 2 connecting rod top end bolts and nuts.
- 1 set of coupling bolts and nuts for the crank shaft.
- 2 cylinder covers complete with all studs and nuts for fastening
of liners, valves, water jackets etc.
- 2 sets of all valves complete for two cylinder covers.
- 1 set of studs and nuts for one cylinder cover for fastening of
valves, liners, water jackets etc.
- 1 cylinder liner.
- 1 piston complete with piston rod and piston rings.
- 2 sets of piston rings and scraping rings complete for each piston.
- Rough turned castings sufficient for making two complete sets
of piston rings.
- 6 exhaust valves complete with spindles, discs, seats, springs
etc. ready for insertion.
- 3 exhaust valve seats.
- 2 air inlet valves complete with all fittings, ready for insertion.
- 2 starting air valves complete with all fittings ready for
insertion.



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- 3 oil fuel injection valves complete with all fittings ready for insertion.
- 3 oil fuel injection valve spindles and disc.
- 6 bottom ends and atomizers for oil fuel injection valves.
- 1 roller with bolt of each size used for the valve levers.
- 6 adjusting screws with ball joints for the valve gear.
- 1 oil fuel pump complete with all fittings.
- 1 complete set of all working parts for one oil fuel pump.
- 2 sets of springs complete suitable for each size used.
- 2 spindles for the overflow valves.
- 1 telescopic pipe complete for the piston cooling.

Main air compressor.

- 1 pair of connecting rod bottom brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 set of piston rings for each size of pistons.
- Rough turned castings, sufficient for making two complete sets of piston rings of each size used.
- 1 set of compressor valves, suction and delivery, complete with seats, springs etc. for all three stages of compressor.
- 1 H.P. copper air cooling coil with flanges and unions ready for fitting.
- 3 thermometer pieces for cooling water discharge valves.

Auxiliary Diesel oil engine:-

- 1 crank shaft.
- 1 pair of main bearing brasses.
- 1 main bearing studs and nuts.
- 1 pair of connecting rod bottom end bolts and nuts.
- 1 connecting rod bottom end bolts and nuts.
- 1 pair of connecting rod top-end gudgeon brasses.
- 1 cylinder covers complete with liners and all valves, seats, springs etc.
- 1 set of studs and nuts for one cylinder cover for fastening of valves, water jackets etc.



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- 1 trunk piston complete with piston rings and crosshead gudgeon pin.
- 2 sets of piston rings and scraping rings complete.
- Rough turned castings, sufficient for making two complete sets of piston rings.
- 2 exhaust valves complete with spindles, discs, seats, springs etc. ready for insertion.
- 2 exhaust valve seats.
- 1 starting air valve complete with all fittings ready for insertion.
- 2 oil fuel injection valves complete with all fittings ready for insertion.
- 2 oil fuel injection valve spindles and discs.
- 1 roller with pin for each size used.
- 1 oil fuel pump complete with all fittings.
- 1 complete set of all working parts for one oil fuel pump.
- 2 sets of springs complete suitable for each size used.
- 1 governor spring.

AUXILIARY AIR COMPRESSORS:-

- 1 set of piston rings for each size of pistons.
 - Rough turned castings, sufficient for making two complete sets of piston rings of each size used.
 - 2 sets of compressor valves, suction and delivery complete with seats, springs etc. for all three stages of compressor.
 - 1 H.P. copper air cooling coil with flanges and union ready for fitting.
- A number of assorted india rubber packings suitable for each size used at the engines and air compressors.
- Various lengths of pipes suitable for the fuel delivery and the blast pipes to cylinders, and the air delivery from the compressors to the air receivers, with unions, cone-ends and flanges suitable for each size used.
- A quantity of assorted bolts, studs and nuts.

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- 1 propeller shaft with key and nut.
- 4 bronze propeller blades.
- 1 set of coupling bolts and nuts for the tunnel shafting.
- 2 suction and 2 delivery valve discs, seats and springs for the bilge and sanitary pumps.

DONKEY BOILER:-

One safety valve spring.

One feed check valve disc.

One scum valve disc.

One blow off valve disc.

One oil fuel burner.

2 dozen of water gauge glasses.

$\frac{1}{2}$ set of valve discs, seats and springs for the boiler feed pump.



Electric Installation, Dynamos, Electro motors etc.

- 1 armature for each size of dynamos and electro motors fitted, also steering gear and windlass motors.
- 1 set of field coils for the electro motors to each fan fitted.
- 1 set of field coils for the electro motors to the oil fuel transfer pump and forced lubrication pump.
- 4 sets of carbon brushes for each dynamo.
- 1 line of brush holders for one dynamo.
- 1 line of brush holders for each size of electro motors fitted.
- 4 sets of carbon brushes with flexible connections for each electro motor fitted.
- A quantity of fuses, contact fingers, lamps, lampholders etc.
- One oil pump complete for the electro hydraulic steering gear.



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