

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.

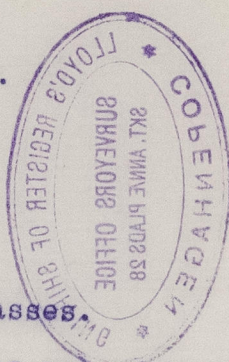
One scum valve disc.

One blow off valve disc.

One oil fuel burner.

2 dozen of water gauge glasses.

1 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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