

List of Spare Gear for the Machinery of
Twin Screw Motor Tank Vessel "SANDAR" of Sandefjord.

Burmeister & Wain's Yard No. 549.

Burmeister & Wain's Engines No.

Cpn. Rpt. No.

Main Diesel Oil Engines:-

One cylinder cover complete with studs and nuts for fastening of valves, cylinder liner and cooling water jacket etc.

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

1 safety valve complete with spring etc. for cylinder cover.

1 safety valve disc for do.

1 trunk piston complete with packing rings, scraping rings etc.

2 set of piston rings.

2 set of piston scraping rings.

2 telescopic cooling pipes complete flanges, packing rings etc.

for the piston cooling.

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.

One crosshead bearing gudgeon pin.

1 pair of crosshead gudgeon bearing brasses.

20 coupling bolts and nuts for crank shaft couplings.

1 set of bolts and nuts for one intermediate shaft coupling.

10 chain links for the chain to the camshaft gearing.

6 oil fuel injection valves complete with springs etc. ready for use.

3 valve spindles and discs for the oil fuel injection valves.

3 bottom parts for the

" " " "

Garlock patent packing for 6 oil fuel injection valves.

1 spindle for the overflow valves to the oil fuel injection valves.

2.

12 safety caps for the oil fuel injection valves.

2 shield caps to the safety caps for the oil fuel injection valves.

1 air inlet valve complete with springs etc. ready for use.

1 valve spindle and disc for the air inlet valves.

12 exhaust valves complete with springs etc. ready for use.

3 valve discs for the exhaust valves.

3 steel nuts for the exhaust valve discs.

3 bottom parts for the exhaust valves.

1 starting air valve complete with spring etc. ready for use.

1 valve seat for the starting air valves.

12 safety caps for the starting air valves.

1 roller with bolt for the oil fuel injection valve lifting gear.

1 roller with bolt for the air inlet valve lifting gear.

1 roller with bolt for the exhaust valve lifting gear.

1 roller with bolt for the starting air valve lifting gear.

1 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.

10 packing rings for the oil fuel pressure pump pistons.

1 suction valve seat and disc with spring complete for the engine bilge pump.

1 delivery valve seat and disc with spring complete for the engine bilge pump.

Main air compressors.

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 pair of crosshead gudgeon bearing brasses.

9 H.P. piston rings.

1 H.P. piston scraping ring.

5 M.P. piston rings.

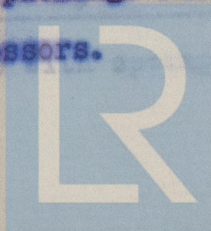


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3.

- 1 M.P. piston scraping ring.
- 4 L.P. piston rings.
- 2 H.P. suction valve seats and discs with springs complete ready for use.
- 2 H.P. delivery valve seats and discs with springs complete ready for use.
- 2 M.P. suction valve seats and discs with springs complete ready for use.
- 2 M.P. delivery valve seats and discs with springs complete ready for use.
- 5 L.P. suction valve seats and discs with springs complete ready for use.
- 4 L.P. delivery valve seats and discs with springs complete ready for use.
- 2 H.P. suction valve discs.
- 2 M.P. suction valve discs.
- 2 M.P. delivery valve discs.
- 4 L.P. suction valve discs.
- 4 L.P. delivery valve discs.
- 2 copper H.P. air cooling coils with flanges and unions ready for use.
- 2 safety caps for the blast air piping.
- 1 shield cap for the safety cap for the blast air piping.
- 8 valve spindles of various size suitable for the valves on the high pressure air bottles.
- 1 spring for the safety valve to the starting air receiver.
- A number of springs suitable for each size and design used at the main engines and main air compressors.
- A quantity of "Krupps", "Palmetto" and "Paragon" packing material.
- A number of assorted india rubber packings suitable for each size used at the engines and compressors.



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4.

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 compressors to the receivers, with unions, cone-ends, flanges etc. suitable for each.

A quantity of assorted bolts and nuts.

Bilge and sanitary pump.

- 1 suction valve seat and disc with spring complete.
- 1 delivery valve seat and disc with spring complete.
- 1 ball bearing for the pump crank shaft.
- 1 spring for the escape valve.

Cooling water pumps.

- 2 ball bearings.
- 1 leather packing.

Lubricating oil pumps.

- 1 roller bearing.
- 1 spring for the escape valve.

Main lubricating oil cooler.

- 28 brass tubes.
- 1 spring for the safety valve.
- 1 filter insert.

Oil fuel transfer pump (Motor driven).

- 1 spring for the escape valve.
- 1 filter insert.

Oil fuel transfer pump (Steam driven).

- $\frac{1}{2}$ set of valves complete with springs etc.

Circulating pump to auxiliary condenser.

- 1 set of valves complete with springs etc.



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5. Various sizes of electric motors.

Auxiliary condenser.

15 brass tubes.

30 screw ferrules.

Donkey Boilers.

1 spring for the boiler safety valves.

1 valve disc for the feed check valves.

3 plain boiler tubes.

4 stay tubes.

6 water gauge glasses and 24 packing rings.

1 set of valves complete with discs and springs for the
boiler feed pump.Steam engine working the cog wheel oil fuel pressure pumps to
donkey boilers.

1 set of piston rings.

1 pair of crank pin bearing brasses.

2 crank pin bearing bolts and nuts.

1 pair of crosshead bearing brasses.

2 crosshead bearing bolts and nuts.

Oil burning arrangement.

1 spring for the safety valve on the pipe line.

1 filter basket.

2 cast iron propellers.

1 propeller shaft with nut and key complete.

Generators and Electro motors.

1 set of carbon brushes for one of the 66 K.W. generators.

1 set of brush holders for " " " " " "

1 set of carbon brushes and 1 set of brush holders for each
of the 35 H.P. - 9 H.P. - 6 H.P. - 3 H.P. and 1.3 H.P.
electro motors.

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6.

5 ball bearings suitable for the various sizes of electro motors.

A quantity of fuses, switches, contact fingers, lamps, lamp-holders, fittings etc. suitable for the electric installation.

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Diameter.

Stroke

o.

2 ball bearings suitable for the various sizes of electric motors.

A quantity of fuses, switches, contact fingers, lamps, lamp-

holders, fittings etc. suitable for the electric installation.

Copenhagen Report No 7854

The M/S "SANDAK" of Sandefjord
Burmester & Wain's Mard. No 549
- " - - Eng. No 1457 & 58.



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