

List of Spare Gear for the Machinery of
Twin Screw Motor Vessel "MARIE MÆRSK"

Burmeister & Wain's Yard "Flydedok No. 187"

" " Eng. Nos. 1389 & 1390.

Copenhagen Report No. 7746.

Main Diesel Oil Engines.

- 1 cylinder cover complete with all studs and nuts for fastening of valves, cylinder liner and water jacket etc.
- 2 cylinder liners.
- 1 water jacket to cylinder liners.
- 1 complete set of studs and nuts for one cylinder cover.
- 1 safety valve complete for the cylinder covers.
- 2 pistons complete with piston rings and studs and nuts for fastening of piston rods.
- 32 piston rings.
- 4 scraping rings.
- 2 telescopic pipes for piston cooling with flanges complete.
- 1 scraping ring with springs for the piston rod.
- 2 air inlet valves complete with springs etc. ready for use.
- 12 exhaust valves complete with springs etc. ready for use.
- 6 bottom parts for exhaust valve chests.
- 3 exhaust valve discs.
- 3 steel nuts for the exhaust valve spindles.
- 3 thermometer pieces for the exhaust valves.
- 6 oil fuel injection valves complete with springs etc. ready for use.

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- 6 bottom pieces for the oil fuel injection valve chests.
- 6 oil fuel injection valve spindles and discs.
- 6 atomizers with rings for oil fuel injection valves.
- 1 spindle for the overflow valves.
- 15 packing rings for the oil fuel injection valve spindles.
- 12 safety caps for oil fuel injection valves.
- 2 shield caps for the safety caps for oil fuel injection valves.
- 2 starting air valves complete with springs etc. ready for use.
- 6 ball bolts with nuts for the air inlet valve gear.
- 6 " " " " " " exhaust valve gear.
- 3 " " " " " " oil fuel injection valve gear.
- 1 " " " " " " starting air valve gear.
- 1 guide roller with pin for the air inlet valve gear.
- 1 " " " " " " exhaust valve gear.
- 2 " " " " " " oil fuel injection valve gear.
- 3 plunger pistons for the oil fuel pressure pump.
- 15 packing rings for the oil fuel pressure pump pistons.
- 1 suction valve for the oil fuel pressure pump.
- 1 delivery " " " " " " "
- 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 bearing brasses.
- 2 crosshead bearing bolts and nuts.
- 19 bolts and nuts for the crank shaft couplings.
- 3 studs and nuts " " " " "
- 1 set of bolts and nuts for one intermediate shaft coupling.

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A number of links for the chain to the cam shaft gearing.

1 suction valve with seat for the engine bilge pump.

1 delivery " " " " " " " "

Main Air Compressors.

18 H.P. piston rings.

2 H.P. piston scraping rings.

5 M.P. piston rings.

1 M.P. piston scraping ring.

4 L.P. piston rings.

1 H.P. suction valve complete with seat, spring etc.

1 H.P. delivery " " " " " "

1 M.P. suction valve complete with seat, spring etc.

1 M.P. delivery " " " " " "

3 L.P. suction valves " " " " " "

2 L.P. delivery " " " " " "

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

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

Auxiliary Diesel Oil Engines.

2 combined cylinder covers and liners complete with all studs and nuts for fastening of valves, liner water jackets etc.

1 water jacket for cylinder liners.

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

1 safety valve complete for the cylinder covers.

1 trunk piston with piston rings.

12 piston rings.



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2 piston scraping rings.
1 air inlet valve complete.
1 air inlet valve spindle.
1 exhaust valve complete.
2 exhaust valve spindles.
2 exhaust valve discs.
1 oil fuel injection valve complete.
1 oil fuel injection valve spindle and disc.
1 starting air valve complete.
1 guide roller with pin for the oil fuel injection valve gear.
1 " " " " " " air inlet valve gear.
1 " " " " " " exhaust valve gear.
1 plunger piston for the oil fuel pressure pump.
4 packing rings " " " " " " piston.
1 suction valve for the oil fuel pressure pump.
1 delivery " " " " " " "
1 crosshead for the oil fuel pressure pump.
2 safety caps for the oil fuel pressure pump.
1 shield cap for the safety valve caps.
1 valve disc for the oil fuel distributors.
2 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 crosshead bearing gudgeon bush.
1 crosshead bearing gudgeon pin.



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Auxiliary air compressor.

1 pair of crank pin bearing brasses.

2 crank pin bearing bolts and nuts.

14 H.P. piston rings.

2 H.P. piston scraping rings.

5 M.P. piston rings.

4 L.P. piston rings.

1 H.P. suction valve complete with seat and spring.

1 H.P. delivery " " " " " "

1 M.P. suction " " " " " "

1 M.P. delivery " " " " " "

3 L.P. suction valves " " " " " "

2 L.P. " " " " " "

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

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

2 safety fuses for the starting air receivers.

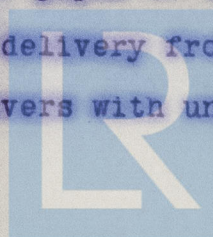
1 spring for the safety valve on starting air receiver.

2 safety caps for the starting air piping.

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

A quantity of "Krupps" and "Palmetto" patent 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 air delivery from the main and
auxiliary compressors to the receivers with unions, cone-ends,



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flanges etc. suitable for each.

A quantity of assorted bolts and nuts.

Ballast pump:-

1 wing and guide blocks.

Bilge & sanitary pumps.

1 suction valve with seat and spring.

1 delivery " " " " "

1 spring for escape valve.

Cooling water pumps.

2 ball bearings.

Lubricating oil pumps.

1 roller bearing.

1 spring for escape valve.

1 filter.

1 spring for the safety valve on the lubricating oil cooler.

1 propeller shaft with key and nut.

2 cast iron propellers.

Donkey Boiler.

1 safety valve spring.

1 check
feed valve.

6 boiler tubes.

6 water gauge glasses.

Oil fuel burning arrangement.

2 oil fuel burners complete.



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6 atomizers for oil burners.

18 mouth pieces for oil burners.

Steam engine for the circulating pump.

1 set of piston springs.

1 pair of crank pin brasses & bolts.

1 pair of crosshead brasses & bolts.

Fan engine.

1 set of piston springs.

1 pair of crank pin brasses & bolts.

1 pair of crosshead brasses and bolts.

Pumps for the oil burning arrangement.

1 set of piston rings.

1 suction filter.

1 delivery filter.

Steam driven oil fuel transfer pump.

1 set of valves complete with seats, springs etc.

Feed pump for the donkey boiler.

1 set of suction and delivery valves complete with seats and
springs.

1 spring for escape valve.

Generators and Electro Motors.

For each of the 100 K.W. and 66 K.W. main generators.

1 set of carbon brushes.

1 set of brush holders.



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30 H.P. electro motor for the cooling water pump and lubricating oil pump.

1 armature complete.

1 set of carbon brushes.

$\frac{1}{2}$ set of brush holders.

15 H.P. electro motor for the fuel oil transfer pump and spare lubricating oil pump.

1 set of carbon brushes.

$\frac{1}{2}$ set of brush holders.

9 H.P. electro motor for the bilge and sanitary pumps.

1 set of carbon brushes.

$\frac{1}{2}$ set of brush holders.

3 H.P. electro motors for the turning gear to main engines.

1 set of carbon brushes.

$\frac{1}{2}$ set of brush holders.

35 H.P. electro motors for the supercharge blowers.

1 set of carbon brushes.

$\frac{1}{2}$ set of brush holders.

2 lubricating rings.

1 steel bush.

1 brass bush.

4 ball bearings suitable for each size for use at the various electro motors.



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9.

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

Mlauren.



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