

List of Spare Gear
for
the M/S. "N i e l M æ r s k"

Odense Staalskibsværft's Yard No. 38.

Burmeister & Wain's Eng. No. 1762/3.

Main Engines:-

- 1 cylinder cover with studs, screws and caps.
- 1 set studs with nuts for one cylinder cover.
- 1 cylinder liner complete with water jacket.

- 8 oil fuel injection valves complete with filters.
- 4 valve spindles with sleeves.
- 12 atomizers.
- 147 Belleville springs.
- 2 airing screws.
- 6 springs.

- 3 air inlet valves complete.
- 1 spindle,
- 6 springs.
- 6 "

- 12 exhaust valves complete.
- 4 valve discs.
- 4 steel nuts for valve discs.
- 4 bottom pieces.
- 8 springs.
- 8 do.



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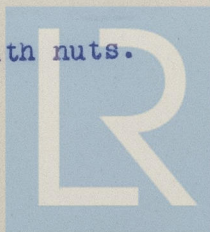
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2.

- 1 guide roller with shaft for valve lever.
- 3 thermometer pieces for cooling water.
- 6 springs for lifting gear.
- 3 starting valves complete.
- 1 guide roller with shaft for valve lever.
- 8 springs.
- 8 do.

- 1 cylinder escape valve complete.
- 1 seat.
- 1 valve disc.
- 8 springs.

- 1 piston complete with rings, studs with nuts and piston rod
with nut and telescopic pipe.
- 1 piston with rings.
- 1 piston without rings.
- 2 telescopic pipes with packing rings.
- 24 piston rings.
- 3 scrape rings.
- 1 scrape ring with spring for piston rod.
- 3/2 connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts with nuts.
- 5/2 connecting rod top end brasses.
- 2 connecting rod top end bolts with nuts.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 10 crank shaft coupling bolts with nuts.



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3.

1 oil fuel pressure pump complete with gear and manometer-valve.

6 suction valves complete.

3 pipes complete with flange &c. from pump to injection valve.

6 suction valve springs.

6 springs for gear.

6 do.

6 manometer valve springs.

1 guide roller with shaft & bearing complete.

12 rams with sleeves and liners.

3 slides with casings, bushes, levers and links.

1 fuel oil filter.

2 links for the camshaft chain drive.

1 propeller shaft with brass liner, key and nut.

6 coupling bolts for intermediate shafts.

2 cast iron propellers (right and left hand).

1 suction valve complete for the bilge pumps.

1 discharge valve complete for do.

2 valve springs.

1 escape valve spring.

A number of assorted bolts with nuts, rubber packing rings, packing material, springs, spindles, pipes with flanges & unions &c.

Auxiliary Diesel engines:-

4 pistons with trunk pins and piston rings.

15 piston rings.

3 scrape rings.



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4.

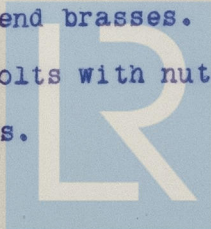
- 1 cylinder with cover, studs & nuts complete.
- 1 set studs with nuts for one cylinder cover.
- 5 oil fuel injection valves complete with filter.
- 3 push spindles with sleeves and liners.
- 3 push spindles.
- 3 valve spindles with sleeves and liners.
- 6 atomizers.
- 72 Belleville springs.

- 2 air inlet valves complete.
- 1 guide roller with shaft for valve lever.
- 3 springs.
- 3 do.

- 9 exhaust valves complete.
- 3 valve discs.
- 1 guide roller with shaft.
- 6 springs.
- 6 springs.

- 2 starting air valves complete.
- 1 guide roller with shaft for valve lever.
- 3 springs.

- 1 cylinder escape valve complete.
- 3 springs for do.
- 1 pair of connecting rod bottom end brasses.
- 1 " " " " top end brasses.
- 4 connecting rod bottom end bolts with nuts.
- 2 pair of main bearing brasses.



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5.

- 2 main bearing studs with nuts.
- 1 oil fuel pressure pump complete with gauge valves.
- 6 rams with sleeves and liners.
- 5 slides with casings, liners, levers & links complete.
- 2 pipes complete with flange &c. from pump to injection valve.
- 2 suction valve springs.
- 2 gauge valve springs.
- 2 non-return valves.
- 2 pump motion springs.
- 1 guide roller with shaft.
- 1 spring for governor.
- 6 tooth wheels for do.
- A number of assorted bolts with nuts, springs, starting air
pipes, rubber packings and packing material, pipes
with flanges & unions &c.

Manoeuvring air compressors.

- 5 H.P. piston rings.
- 4 L.P. " "
- 2 H.P. scrape rings.
- 1 H.P. suction valve complete.
- 2 H.P. suction valve discs.
- 3 springs for do.
- 3 springy plates.
- 1 H.P. discharge valve complete.
- 2 H.P. discharge valve discs.
- 3 springs for do.
- 3 springy plates.



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6.

2 L.P. suction valves complete.

2 L.P. suction valve discs.

4 springs for do.

4 springy plates.

2 L.P. discharge valves complete.

2 " " " discs.

3 springs for do.

3 springy plates.

1 escape valve spring for the independant bilge & sanitary pump.

Ballast pump.

1 slide valveⁿ.

2 guide blocks.

Cooling water & Lubricating oil pumps.

2 ball bearings.

1 shaft with nut.

1 set cog wheels with shaft for lubricating oil pump.

1 roller bearing\$ for do.

1 escape valve spring.

Oil fuel transfer pump.

1 set cog wheels with ~~shaft~~. shaft.

1 escape valve spring.

2 filter baskets.

Starting air receivers.

1 safety valve spring.



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Donkey Boiler.

- 1 safety valve spring.
- 2 feed check valves.
- 3 atomizer-muzzles for each oil burner.
- 6 water gauge glasses.
- 1 set valves for feed pump.

Electric Fittings.

1 armature for each of the electromotors working the ballast pump, cooling water & Lubricating oil pumps, Turning gear, Steering gear and Windlass.

1 set of carbon brushes and $\frac{1}{2}$ set of brush holders for each size of electromotor and dynamo.

Contact fingers, contact pieces for controllers, resistance elements &c.



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