

List of Spare Gear

for the Twin Sc. Motor Vessel "INDIA" of Copenhagen

A/S. Nakskov Skibsværft's Yard No. 39

A/S. Burmeister & Wain's engines Nos. 1718-1719.

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Main engines:-

- 1 cylinder cover with studs & nuts complete.
- 1 cylinder liner.
- 1 set of studs for valves for one cylinder cover.
- 2 crank pin upper brasses with washers.
- 1 crank pin bottom brass.
- 4 crank pin bolts with nuts.
- 4 trunk pin bottom brasses.
- 2 trunk pin upper brasses.
- 1 pair of main bearing brasses.
- 4 main bearing studs with nuts.
- 1 piston with trunk pin and packing rings.
- 3 sets (18) piston packing rings.
- 3 sets (6) piston scrape rings.
- 2 air inlet valves complete.
- 8 + 8 springs for do.
- 1 guide roller with shaft for valve lever.
- 16 exhaust valves complete.
- 4 exhaust valve discs.
- 4 steel nuts for do.
- 8 + 8 springs.
- 3 thermometer pieces.
- 2 starting air valves complete.
- 8 springs for do.
- 1 guide roller with shaft for valve lever.



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- 3 bursting caps for starting air.
- 8 springs.
- 8 oil fuel injection valves complete.
- 4 spindles for do.
- 8 mouth pieces for do.
- 8 springs.
- 1 guide roller with shaft & bearing for valve lever.
- 2 spindles for overflow valve.
- 3 bursting caps.
- 1 cylinder escape valve complete.
- 6 springs for do.

Oil fuel pressure pumps:-

- 8 rams with liner.
- 8 suction valves.
- 8 delivery valves.
- 8 suction valve springs.
- 8 delivery valve springs.
- 1 safety valve complete.
- 1 safety valve spring.

Main air compressors.

- 1 H.P. suction valve complete.
- 1 H.P. delivery valve "
- 1 M.P. suction valve "
- 1 M.P. delivery valve "
- 14 L.P. suction valves "
- 12 L.P. delivery valves "
- 1 L.P. safety valve complete.
- 1 M.P. " " "
- 1 H.P. " " "
- 1 pair of main bearing brasses.
- 4 main bearing studs with nuts.
- 7 H.P. piston rings.



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- 5 M.P. piston rings.
- 4 L.P. " "
- 1 H.P. scrape ring.
- 1 M.P. " "
- 1 H.P. cooling coil.
- 1 H.P. safety valve spring.
- 1 M.P. " " "
- 1 L.P. " " "
- 2 springs for the H.P. suction delivery valves.
- 14 " " " L.P. suction valves.
- 14 " " " L.P. delivery valves and M.P. suction and  
delivery valves.
- 1 complete set of all other springs used throughout for one main  
engine.
- 10 coupling bolts with nuts for the crank shaft.
- 1 chain for the camshaft drive.
- 4 chain links.
- 2 bilge pump suction valves complete.
- 2 " " discharge " "
- 2 springs for do.

A number of assorted bolts & studs with nuts, rubber packing rings in suitable sizes ready for use, packing material pipes of suitable lengths and sizes with cones and unions for fuel oil, starting and injection air, filter baskets for fuel & lubricating oil filters, ball bearings, escape valve springs and spindles for the valves for compressed air.

- 1 set of carbon brushes and
- $\frac{1}{4}$  set of brush holders for each size of electromotor used.

Auxiliary engines:-

- 1 cylinder with liner.
- 1 set studs with nuts for the valves of one cylinder cover.
- 1 air inlet valve complete.
- 4 exhaust valves complete.
- 2 exhaust valve discs.



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- 1 starting valve complete.
  - 2 oil fuel injection valves complete.
  - 2 spindles for do.
  - 1 spindle for the overflow valve.
  - 1 piston.
  - 2 piston gudgeon pins.
  - 18 piston packing rings.
  - 3 " scrape rings.
  - 1 pair of crank pin brasses with bolts & nuts.
  - 1 " " main bearing brasses.
  - 1 " " " " "
  - 2 main bearing studs with nuts.
  - 1 suction valve for oil fuel pressure pump.
  - 1 delivery " " " " " "
  - 3 packing rings for do.
  - 1 set of all springs used for one engine.
- Rubber packing rings in suitable dimensions ready for use,  
packing material, bolts, studs & nuts &c.

Auxiliary air compressors.

- 1 connecting rod top end bush.
- 1 pair of crank pin brasses with bolts & nuts.
- 1 H.P. air cooling coil.
- 4 L.P. piston rings.
- 5 M.P. " "
- 7 H.P. " "
- 2 M.P. piston scrape rings.
- 1 H.P. " " "
- 3 L.P. suction valves.
- 1 M.P. " "
- 1 H.P. " "
- 2 L.P. delivery "
- 1 M.P. " "
- 1 H.P. " "



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Sundry:-

- 1 set of coupling bolts with nuts for one intermediate shaft coupling.
- 2 cast iron propellers (right & left hand).
- 1 propeller shaft complete with liner, key & nut.
- 1 suction valve complete for the bilge & sanitary pump.
- 1 discharge " " " " " " " "
- 1 slide <sup>vane</sup> valve with guide blocks for ballast pump.
- 1 safety valve spring for donkey boiler.
- 1 feed check valve for " "
- 1 armature for the steering gear motor.
- 1 " " each size of winch motor.
- Contact fingers, resistance coils &c.

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