

List of Spare Gear

for

the Steel Twin Sc. Motorvessel "KNUTE NELSON" of Oslo.

Odense Staalskibsværft's Yard No. 24

Burmeister & Wain's Engines Nos. 1244-45.

Cpn. Rpt. No.

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Main Engines:-

- 1 cylinder liner,
- 1 cylinder cover with studs & nuts.
- 1 set studs with nuts for 1 cylinder cover.
- 1 piston complete with packing rings, studs & nuts.
- 4 set piston packing rings for 1 piston.
- 1 scrape ring with springs for piston rod.
- 1 telescopic pipe with packing.
- 8 oil fuel injection valves complete.
- 4 spindles for do.
- 8 bottom pieces for do.
- 8 springs of each size for do.
- 2 spindles for overflow valve.
- 8 bursting caps.
- 3 guide rollers with shaft for valve gear.
- 2 air inlet valves complete.
- 1 spindle for do.
- 8 springs of each size for do.
- 16 exhaust valves complete.
- 4 valve discs with nuts for do.
- 4 bottom pieces for do.
- 8 springs of each size for do.
- 4 thermometer pieces for cooling water discharge.

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- 2 starting air valves complete.
- 8 springs of each size for do.
- 1 cylinder escape valve complete.
- 1 seat for do.
- 1 valve disc for do.
- 8 springs for do.
- 3 crank pin topbrasses.
- 1 crank pin bottom brass.
- 2 connecting rod bottom end bolts with nuts.
- 4 crosshead bottom brasses.
- 2 " top "
- 2 connecting rod top end bolts with nuts.
- 1 pair of main bearing brasses of each size.
- 2 main bearing studs with nuts.
- 1 set coupling bolts with nuts for crank shaft.
- 1 " " " " " " intermediate shafts.
- 1 propeller shaft complete with nut & key.
- 2 cast iron propellers.
- 1 set of all moving parts for the oil fuel pressure pump.
- 2 links for the camshaft chain drive.
- 1 complete set valves for one bilge pump.
- 1 complete set of all springs used for one motor.

Main air compressors.

- 1 set H.P. piston packing rings.
- 1 set I.P. " " "
- 1 set L.P. " " "
- 2 H.P. suction valves with seats & springs.
- 6 H.P. suction valve springs.
- 3 H.P. suction valve discs.
- 2 H.P. discharge valves with seats & springs.
- 6 H.P. discharge valve springs.
- 3 H.P. discharge valve discs.
- 2 I.P. suction valves with seats & springs.



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- 4 springs for do.
- 2 I.P. discharge valves with seats & springs.
- 4 springs for do.
- 3 I.P. discharge valve discs.
- 10 L.P. suction valves with seats & springs.
- 20 springs for do.
- 3 L.P. suction valve discs.
- 9 L.P. discharge valves with seats & springs.
- 18 springs for do.
- 1 H.P. cooling coil.
- 1 pair of connecting rod bottom end brasses.
- 1 pair of connecting rod top end brasses.

Auxiliary Diesel engines:-

- 1 cylinder cover.
- 1 set studs with nuts for one cover.
- 1 piston.
- 3 set piston packing rings for one piston.
- 1 pair of connecting rod bottom end brasses.
- 1 pair of connecting rod top end brasses.
- 2 crank pin bolts with nuts.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 3 oil fuel injection valves complete.
- 3 spindles for do.
- 3 bottom pieces for do.
- 3 springs of each size for do.
- 4 guide rollers for valve gear.
- 3 bursting caps.
- 1 spindle for overflow valve.
- 1 air inlet valve complete.
- 3 air inlet valve springs.
- 6 exhaust valves complete.
- 3 exhaust valve seats.



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- 6 exhaust valve springs.
- 1 starting air valve complete.
- 3 springs for do.
- 1 escape valve spindle.
- 1 escape valve seat.
- 3 escape valve springs.
- 2 pistons for oil fuel pressure pump.
- 1 suction valve for do.
- 1 discharge valve for do.
- 1 set packing rings.
- 1 spring of each size used.
- 1 spring for the governor.
- 1 ball bearing for do.

Compressors:-

- 1 set H.P. piston packing rings.
- 1 set I.P.     "     "     "
- 1 set L.P.     "     "     "
- 1 H.P. suction valve complete.
- 2 H.P. suction valve discs.
- 3 H.P. suction valve springs.
- 1 H.P. discharge valve complete.
- 2 H.P. discharge valve discs.
- 3 H.P. discharge valve springs.
- 1 I.P. suction valve complete.
- 2 I.P. suction valve discs.
- 3 I.P. suction valve springs.
- 1 I.P. discharge valve complete.
- 2 I.P. discharge valve discs.
- 3 I.P. discharge valve springs.
- 3 L.P. suction valves complete.
- 2 L.P. suction valve discs.
- 5 L.P. suction valve springs.
- 2 L.P. discharge valves complete.



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- 2 L.P. discharge valve discs.
- 4 L.P. discharge valve springs.
- 1 H.P. cooling coil.

Pumps &c.

- ½ set valves with seats for bilge & sanitary pump.
- 1 wing & 2 guide blocks for ballast pump.
- 1 impeller shaft for cooling water pumps.
- 1 set cog wheels for lubricating oil pumps.
- 1 set cog wheels with shaft for oil fuel transfer pump.
- 1 spring of each size for escape valves.
- 1 valve spindle of each size for air bottles.
- 1 length of pipe with unions of each size for injection air.
- 1 length of pipe with unions of each size for injection oil.
- Assorted bolts with nuts.
- Packing material.
- 2 sieves for the fuel oil filter.
- 2 sieves for the lubricating oil filter.

Dynamos & Electromotors.

- 2 set brushes for one dynamo.
- ½ set brush holders for one dynamo.
- 2 set brushes for one motor of each size.
- ½ set brush holders with springs for one motor of each size.

Donkey Boiler:-

- 1 safety valve disc.
- 1 " " spring.
- 1 feed check valve.
- 1 atomizer for oil burner.
- ½ set valves for feed pump.
- 6 water gauge glasses.
- 24 packing rings for do.



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