

List of Spare Gear

for

the M/S. "Hilda Knudsen"

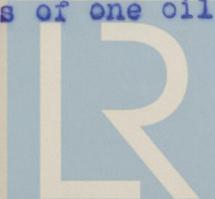
A/S. Nakskov Skibsværft's Yard No. 32.

A/S. Burmeister & Wain's Engines No. 1386/7.

Cpn. Rpt. No. 7781

Main engines:-

- ✓ 1 cylinder cover.
- ✓ 1 cylinder liner.
- ✓ 1 set studs with nuts for 1 cylinder cover.
- ✓ 1 piston complete with rings, studs and nuts.
- ✓ 3 set piston rings for 1 piston.
- ✓ 3 scrape rings.
- ✓ 6 oil fuel injection valves complete.
- ✓ 6 spindles for do.
- ✓ 6 mouth-pieces for do.
- ✓ 2 spindles for overflow valves.
- ✓ 3 bursting caps for fuel oil injection valves.
- 2 starting air valves complete.
- 12 exhaust valves complete.
- 3 exhaust valve seats.
- 2 air inlet valves complete.
- 6 ball-bolts for valves.
- 4 rollers for valve lifting gear.
- ✓ 1 pair of main bearing brasses.
- ✓ 2 main bearing studs with nuts.
- ✓ 1 pair of crank pin brasses with bolts & nuts.
- ✓ 1 pair of crosshead brasses with bolts and nuts.
- ✓ 10 coupling bolts with nuts for crank shaft.
- ✓ 1 complete set of all working parts of one oil fuel pressure pump.



2.

- ✓ 4 links for the valve gear chain drive.
- ✓ 1 set coupling bolts with nuts for intermediate shafting.
- 1 propeller shaft with nut and key.
- 2 cast iron propellers, right and left hand.
- 1 complete set of all springs used.

Main air compressors:-

- 1 pair of main bearing brasses.
- 1 pair of crosshead brasses.
- ✓ 9 H.P. piston rings.
- ✓ 1 H.P. piston scrape ring.
- ✓ 5 I.P. piston rings.
- ✓ 1 I.P. piston scrape ring.
- ✓ 4 L.P. piston rings.
- ✓ 1 H.P. suction valve complete.
- ✓ 1 H.P. discharge valve complete.
- ✓ 1 I.P. suction valve complete.
- ✓ 1 I.P. discharge valve complete.
- ✓ 7 L.P. suction valves complete.
- ✓ 5 L.P. discharge valves complete.
- ✓ 2 H.P. suction valves.
- ✓ 2 H.P. discharge valves.
- ✓ 2 I.P. suction valves.
- ✓ 2 I.P. discharge valves.
- ✓ 14 L.P. suction valves.
- ✓ 10 L.P. discharge valves.
- 2 bursting caps for starting air.
- ✓ 1 suction valve for bilge pump.
- ✓ 1 discharge valve for bilge pump.
- ✓ 1 length of oil fuel pipe with unions.
- ✓ 1 length of injection air pipe with unions.
- ✓ 1 length of starting air pipe with flanges.



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3.

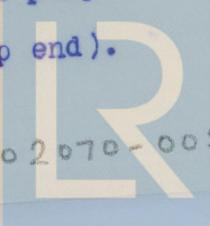
1 valve spindle for each size of valves on the air receivers.  
Packing material and india rubber packings in suitable dimensions,  
white metal blocks, assorted bolts & nuts &c.

Auxiliary Diesel engines:-

- ✓ 1 pair of crank pin brasses with bolts & nuts.
- ✓ 1 pair of trunk pin brasses with bolts & nuts.
- ✓ 1 pair of main bearing brasses with bolts & nuts.
- ✓ 2 set piston rings.
- ✓ 2 exhaust valves complete.
- ✓ 2 oil fuel injection valves complete.
- ✓ 2 spindles for do.
- ✓ 1 spindle for overflow valve.
- ✓ 1 piston for fuel oil pressure pump.
- ✓ 1 suction & 1 discharge valve for do.
- 1 set springs for one motor.
- ✓ 1 set studs for one cylinder cover.
- ✓ 2 exhaust valve seats.
- ✓ 2 exhaust valve seats.
- 2 rollers for valve lifting gear.
- 1 H.P. cooling coil for compressor.
- ✓ 1 set piston rings for compressor.
- ✓ 1 set valves for compressor.
- 1 set crank pin brasses for compressor.

Pumps.

- 1/2 set valves for donkey feed pumps.
- 1 set piston rings for do.
- 1/2 set valves for bilge & sanitary pump.
- 2 ball bearings for cooling water pumps.
- 1 piston rod with coupling for cargo oil pumps.
- 1 set valves for one cargo oil pump.
- 6 valve studs for do.
- 1 set valves for stripping & summer tank pumps.
- 1 set piston rings for do. (steam & pump end).



Oil fuel burning aggregate.

- ✓ 1 piston rod for oil fuel pressure pump.
- ✓ 2 set valves for do.
- ✓ 1 set piston rings (steam & pump end).
- ✓ 1 slide valve spindle.
- 1 set suction & discharge strainer buckets.
- ✓ 2 thermometers.
- 2 burners complete.
- 12 nozzles for burners.
- 1 union for do.
- 4 slide covers and rods.

Donkey boilers &c.

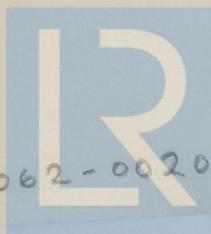
- 10 plain boiler tubes.
- 2 safety valve springs.
- 2 feed check valves.
- 5 condenser tubes.
- 1 piston rod for the engine working the fan.
- 1 set piston rings for do.

Refrigerating machinery.

- 1 piston rod for CO<sub>2</sub> compressor.
- 1 piston for do.
- 1 set compressor valves.
- 1 filter.
- 12 escape valves.
- Packing material, thermometers, pressure gauges &c. &c.

Electric Installation.

- 1 armature for steering gear.
- 1 coil for electrical brake for windlass.
- 3 set coal brushes for each size of motor & dynamos.
- ½ set brush-holders " " " " " "



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5.

act fingers, springs, screws, plugs, fuses &c. of assorted  
s and in a suitable number.



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