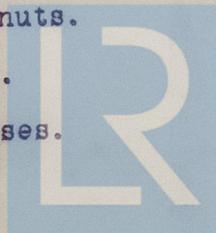


List of Spare Gear  
for  
the M/S. "SIR KARL KNUDSEN"  
A/S. Nakskov Skibsværft's Yard No. 33.

Cpn. Rpt. No.

Main engines.

- 1 cylinder liner.
- 1 cylinder cover.
- 1 set studs with nuts for one cylinder cover.
- 9 oil fuel injection valves complete.
- 6 spindles for injection valves.
- 12 mouthpieces for injection valves.
- 2 overflow valve spindles for injection valves.
- 12 bursting caps.
- 1 air inlet valve complete.
- 12 exhaust valves complete.
- 12 exhaust valve seats.
- 6 exhaust valve spindles.
- 2 starting air valves complete.
- 6 bursting caps for do.
- 1 escape valve complete.
- 1 complete set of all springs used for one engine.
- 4 rollers with shafts for the valve lifting gear.
- 2 pistons complete with rings.
- 4 sets piston rings for one piston.
- 4 sets scrape rings for one piston.
- 3 telescopic pipes for the piston cooling.
- 1 pair of crank pin brasses.
- 1 set crank pin bolts with nuts.
- 1 pair of crosshead brasses.
- 1 pair of main bearing brasses.



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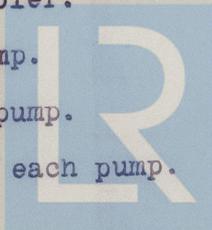
- 2 main bearing studs with nuts.
- 1 set bolts for one crank shaft coupling.
- $\frac{1}{2}$  set of all moving parts for one fuel oil pressure pump.
- 10 links for the camshaft drive.
- $\frac{1}{2}$  set valves for one bilge pump.

Main air compressors.

- 1 pair of connecting rod bottom end brasses with bolts.
- 1 pair of connecting rod top end brasses.
- 2 set L.P. piston packing rings.
- 2 set M.P. piston packing rings.
- 4 set H.P. piston packing rings.
- 1 set L.P. suction valves.
- 2 set M.P. suction valves.
- 2 set H.P. suction valves.
- 1 set L.P. discharge valves.
- 2 set M.P. discharge valves.
- 3 set H.P. discharge valves.
- 2 springs of each size.
- 1 H.P. cooling coil.
- 6 tubes for each of the air coolers.

Sundry.

- 1 set bolts with nuts for one intermediate shaft coupling.
- 2 cast iron propellers (right and left hand).
- 1 propeller shaft with continuous liner, nut & key.
- 1 length of pipe of each size used with cone & union for injection air.
- 1 length of pipe of each size used with flanges for starting air.
- 1 length of pipe of each size used with cone & union for fuel oil.
- 25 tubes for lubricating oil cooler.
- 1 filter for lubricating oil pump.
- 1 filter for oil fuel transfer pump.
- 1 ball bearing of each size for each pump.



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Rubber packings & packing material, assorted bolts with nuts,  
thermometer, thermometer & right feed lubricator glasses.

Auxiliary Diesel engines.

- 1 cylinder complete with studs.
- 1 cylinder water jacket.
- 1 piston complete with rings and trunk pin.
- 6 sets piston rings for one piston.
- 6 scrape rings.
- 4 exhaust valves complete.
- 4 exhaust valve seats.
- 4 exhaust valve spindles.
- 4 oil fuel injection valves complete.
- 2 spindles for do.
- 1 spindle for overflow valve.
- 1 air inlet valve.
- 1 spindle for do.
- 1 starting valve complete.
- 3 pistons for oil fuel injection pump.
- 2 suction valves for do.
- 5 discharge valves for do.
- 1 set metallic piston packings for do.
- 4 rollers with shafts for valve lifting gear.
- 2 set springs of each size used for one motor.
- 1 pair of connecting rod bottom end brasses with bolts.
- 1 pair of connecting rod top end brasses with bolts.
- 2 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 1 trunk piston bolt with nut & securing.

Auxiliary air compressors.

- 2 sets L.P. piston packing rings.
- 2 sets M.P. piston packing rings.



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- 3 sets H.P. piston packing rings.
- 4 M.P. scrape rings.
- 3 H.P. scrape rings.
- 1 pair of connecting rod bottom end brasses.
- 2 trunk piston bolts with nuts & securing.
- 6 L.P. suction valves.
- 2 M.P. suction valves.
- 2 H.P. suction valves.
- 6 L.P. discharge valves.
- 2 H.P. discharge valves.
- 1 H.P. cooling coil.
- 6 brass-tubes for air coolers.
- 1 set springs of each size used for one motor.
- Rubber packings & packing material.
- 1 valve spindle for each size of valves on air bottles.

Donkey Boilers.

- 4 stay tubes.
- 10 plain tubes.
- 2 safety valve springs.
- 1 safety valve spring for exhaust donkey boiler.
- 2 feed check valves.

Oil burning installation.

- 1 piston rod for pressure pumps.
- 2 set valves for do.
- 1 set piston packing rings for steam end.
- 1 set piston packing rings for pump end.
- 1 slide valve spindle.
- 1 set discharge & suction strainer buckets.
- 2 thermometers.
- 2 burners complete.
- 12 nozzles for burners.
- 1 union for burners.



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4 slide cones & rods.

Feed pump.

1 set valves.

1 set piston packing rings for each end of pump.

Feed pump for exhaust boiler.

1 set valves.

1 set piston packing rings for each end of pump.

Condenser.

25 tubes.

50 screw ferrules.

Refrigerating machinery.

1 piston and piston rod for compressor.

1 set compressor valves.

1 sieve.

1 pair of crank pin brasses.

Safety valves, fibre packings, leather collars, thermometers, manometers, valves and springs &c.

Steam driven small air compressor.

2 L.P. suction & discharge valves complete.

2 M.P. suction & discharge valves complete.

2 H.P. suction & discharge valves complete.

2 H.P. suction valves.

2 H.P. discharge valves.

2 set piston packing rings for each compressor cylinder.

1 set piston packing rings for steam cylinder.

1 H.P. cooling coil complete.

6 tubes for L.P. air cooler.

6 tubes for M.P. air cooler.

2 set springs for valves.

1 pair of crosshead brasses.

1 pair of crank pin brasses.



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Cargo oil lines.

- 2 - 12" sluice valves.
- 1 - 10" discharge valve.
- 1 - 16" hand wheel.
- 1 expansion joint.
- 4 sieve-plates for mudboxes.

Cargo oil pumps.

- 2 set piston springs for steam cylinders.
- 2 set piston springs for pump cylinders.
- 2 set suction valves.
- 2 set discharge valves.
- 3 set springs for valves.
- 6 guide studs for valves.
- 1 brass pump rod.

Forward tank & bilge pumps.

- $\frac{1}{2}$  set valves for each pump.

Electric Light & Power installation.

- 3 set carbon brushes for each electromotor.
- $\frac{1}{2}$  set brush holders " " "
- 1 armature for electromotor for CO<sub>2</sub> compressor.
- 1 " " " for cooling water pump for CO<sub>2</sub> condenser.
- 1 armature for electromotor for steering gear.
- 1 " " " for 110 Volts generator for electric light.

Contact fingers, resistance coils &c. for motor starters, fuses, lamps &c.



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