

List of Spare Gear

for the Steel Sc. Motor Vessel "ASTORIA" of Copenhagen,

A/S. Nakskov Skibsværft's Yard No. 26

A/S. Burmeister & Wain's engines Nos. 1172 - 1173.

Cpn. Rpt. No. 7249.

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Main Engines:-

1 cylinder cover complete with studs and nuts.

1 piston complete with packing rings, studs & nuts.

10 piston packing rings:

6 scrape rings.

1 pair of main bearing brasses.

2 studs with nuts for main bearings.

1 pair of crank pin brasses with bolts & nuts.

1 pair of trunk pin brasses.

10 coupling bolts with nuts.

9 do. do.

3 coupling screws.

2 starting air valves complete.

12 exhaust valves complete.

3 exhaust valve discs.

6 oil fuel injection valves complete.

6 spindles for do.

6 mouthpieces for do.

1 spindle for overflow valve.

3 bursting caps for do.

3 guards for do.

12 packing rings for injection valve.

2 air inlet valves complete.

1 roller for oil fuel injection valve gear.

1 roller for starting air valve gear.

1 roller for exhaust valve gear.



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003824-003831-0071 1/4

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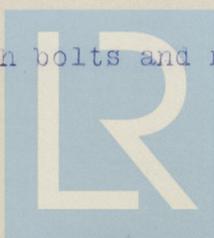
- 1 roller for air inlet valve gear.
- 6 pistons for fuel oil pump.
- 1 complete set of valves for do.

Compressors.

- 1 pair of trunk pin brasses.
- 7 H.P. piston packing rings.
- 1 H.P. piston scrape ring.
- 5 I.P. piston packing rings.
- 1 I.P. piston scrape ring.
- 4 L.P. piston packing rings.
- 1 H.P. suction valve complete.
- 1 H.P. delivery valve complete.
- 1 I.P. delivery valve complete.
- 1 I.P. suction valve complete.
- 3 L.P. suction valve complete.
- 2 L.P. delivery valves complete.
  
- 3 bursting caps for starting air pipes.
- 1 suction valve for bilge pump.
- 1 discharge valve for bilge pump.
- 1 length of pipe for injection air.
- 1 length of pipe for starting air.
- 1 length of pipe for fuel oil.
- 1 cooling water pipe to be fitted in case of the main air compressors should break down.
- 1 complete set of all springs used throughout the machinery.
- Packing material, unions & cones, assorted bolts & screws &c.

Auxiliary Diesel Engines.

- 1 pair of main bearing brasses for 2-cyl. engine.
- 1 pair of main bearing brasses for 1-cyl. engine.
- 2 main bearing studs with nuts.
- 1 pair of crank pin brasses with bolts and nuts.
- 1 pair of trunk pin brasses.



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0971 2/4

1 set studs with nuts for one cylinder cover.  
 10 piston packing rings.  
 6 scrape rings.  
 2 oil fuel injection valves complete.  
 2 spindles for do.  
 2 exhaust valves complete.  
 2 valve discs for do.  
 2 spindles for do.  
 1 piston for fuel oil pump for 2-cyl. engine.  
 1 piston for fuel oil pump for 1-cyl. engine.  
 1 suction valve for do.  
 1 discharge valve for do.  
 1 roller for oil fuel injection valve gear.  
 1 roller for air inlet & exhaust valve gear.  
 2 bursting caps.

Compressors.

1 pair of crank pin brasses with bolts and nuts for 2-cyl. engine.  
 1 pair of crank pin brasses with bolts and nuts for 1-cyl. engine.  
 7 H.P. piston packing rings. )  
 1 H.P. piston scrape ring. )  
 5 I.P. piston packing rings. ) for 2-cyl. engine.  
 2 I.P. piston scrape rings. )  
 4 L.P. piston packing rings. )  
 6 H.P. piston packing rings. )  
 1 H.P. piston scrape ring. )  
 6 intermediate rings. ) for 1-cyl. engine.  
 4 L.P. piston packing rings. )  
 2 L.P. piston scrape rings. )  
 1 H.P. cooling coil with flanges & unions for 1 cyl. engine.  
 1 H.P. cooling coil with flanges & unions for 2 cyl. engine.  
 1 H.P. suction valve complete.  
 1 H.P. discharge valve complete.



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0071 3/4

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- 1 L.P. discharge valve complete.
- 2 L.P. suction valves complete.
- 1 length of pipe for injection air.
- 1 length of pipe for starting air.
- 1 length of pipe for fuel oil.
- 1 complete set of all springs used throughout.

Other spare parts.

- 1 wing for the ballast pump.
- 2 guide blocks for do.
- 1 suction valve with seat & spring for bilge & sanitary pump.
- 1 discharge valve with seat & spring for bilge & sanitary pump.
- 1 ball bearing for do.
- 1 escape valve spring for do.
- 2 ball bearings for cooling water pump.
- 1 roller bearing for lubricating oil pump.
- 1 escape valve spring for lubricating oil pump.
- 1 escape valve spring for oil fuel transfer pump.
- 1 escape valve spring for lubricating oil cooler.
- 1 escape valve spring for starting air receiver.
- 6 coupling bolts for tunnel shafts.
- 2 cast iron propellers, right & left hand.
- Coal brushes, brush holders and ball bearings for Electromotors and dynamos.

Donkey Boiler.

- 1 safety valve spring.
- 1 feed valve disc.
- $\frac{1}{2}$  set feed pump valves.
- 1 oil burner.
- 6 water gauge glasses.



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0071 4/4

Spec. Rpt. No. 7249.

- 6 water gauge glasses.
- 1 oil burner.
- 2 set feed pump valves.
- 1 feed valve disc.
- 1 safety valve spring.
- Donkey boiler.
- and dynamo.
- coal brushes, brush holders and ball bearings for Electromotors
- 2 cast iron propellers, rignt & left hand.
- 6 coupling bolts for tunnel shafts.
- 1 escape valve spring for starting air receiver.
- 1 escape valve spring for lubricating oil cooler.
- 1 escape valve spring for lubricating oil pump.
- 1 roller bearing for lubricating oil pump.
- 5 ball bearings for cooling water pump.
- 1 escape valve spring for do.
- 1 ball bearing for do.
- 1 discharge valve with seat & spring for bilge & sanitary pump.
- 1 suction valve with seat & spring for bilge & sanitary pump.
- 5 Guide blocks for do.
- 1 wire for the ballast pump.
- Other spare parts.
- 1 complete set of all springs used throughout.
- 1 length of pipe for fuel oil.
- 1 length of pipe for starting air.
- 1 length of pipe for injection air.
- 5 L.P. suction valves complete.
- 1 L.P. discharge valve complete.



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