

List of Spare Gear

for

the Twin Sc. Motor vessel "NYHOLM", of Haugesund.

Odense Staalskibsværft's Yard No. 27.

Burmeister & Wain's engines Nos. 1326-7.

Main Engines.

- 1 cylinder liner.
- 1 cylinder cover.
- 1 pair of crank pin brasses with bolts & nuts.
- 1 " " crosshead brasses.
- 1 " " main bearing brasses.
- 4 main bearing studs with nuts.
- 1 piston.
- 132 piston packing rings.
- 48 scrape rings.
- 2 air inlet valves complete.
- 12 exhaust " "
- 6 exhaust valve spindles.
- 12 mouth-pieces for exhaust valves.
- 2 starting air valves complete.
- 12 rings for starting valve spindle.
- 12 oil fuel injection valves complete.
- 12 spindles for oil fuel injection valves.
- 12 mouth-pieces for oil fuel injection valves.
- 6 atomizers complete.
- 6 overflow-valves for oil fuel injection valves.
- 20 bursting caps for do.
- 18 packing rings for do.
- 4 rollers with shaft for injection valves.
- 4 " " " " starting " .
- 4 " " " " air inlet and exhaust valves.
- 9 coupling bolts with nuts for crank shaft.
- 10 " " " " " " " .

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- 3 coupling screws for crank shaft.
- 1 set studs w. nuts for valves of one cylinder cover.
- 1 set screws for one cylinder liner.
- 12 bursting caps for starting air line.
- 6 ball thrust-screws for air inlet & exhaust valves.
- 4 " " " " oil fuel injection valves.
- 2 " " " " starting air valves.
- 18 pipes w. flanges & 12 do. w. ring for piston cooling.
- 12 pistons for oil fuel pressure pumps.
- 7 suction valves for do.
- 7 discharge " " do.
- 18 packing rings " do.
- 1 regulating lever " do.
- 1 screw shaft with nut & key.
- 1 brass liner for screw shaft.
- 2 cast iron propellers (right & left hand).
- 6 coupling bolts with nuts.

Main air compressors.

- 6 LP suction valves complete.
- 9 LP suction valve discs.
- 6^{LP} discharge valves complete.
- 9 LP discharge valve discs.
- 3 IP suction valves complete.
- 6 IP suction valve discs.
- 3 IP discharge valves complete.
- 6 IP discharge valve discs.
- 3 HP suction valves complete.
- 6 HP suction valve discs.
- 3 HP discharge valves complete.
- 6 HP discharge valve discs.
- 18 elastic plates for HP suction & discharge valves.
- 18 " " " LP & IP " " " "
- 14 HP piston packing rings.



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- 2 HP piston scrape rings.
 - 10 IP piston packing rings.& 2 IP piston scrape rings.
 - 8 LP piston packing rings.
 - 1 pair of crank pin brasses w. bolts.
 - 1 connecting rod top end bush.
 - 6 brass tubes for LP air cooler.
 - 6 " " " IP " "
 - 1 copper cooling coil for HP cylinder.
 - 1 length of 25/33 mm. injection air pipe.
 - 1 " " 17/24 mm. " " "
 - 1 " " 2 $\frac{1}{2}$ " starting air pipe.
 - 1 " " 7/11^{m/v} oil fuel pipe.
- One complete set of all springs used for both main engines.

Auxiliary Diesel engines.

- 1 pair of crank pin brasses w. bolts & nuts.
- 1 connecting rod top end bush.
- 2 pair of main bearing brasses.
- 2 main bearing studs w. nuts.
- 30 piston packing rings.
- 5 scrape rings.
- 4 oil fuel injection valves complete.
- 14 spindles for do.
- 4 atomizers w. cone & rings.
- 10 mouth-pieces for oil fuel injection valves.
- 3 packing rings for do.
- 6 busting caps for do.
- 3 overflow valves.
- 4 exhaust valves complete.
- 6 spindles w. seats & nuts for do.
- 2 exhaust valve chests.
- 2 starting valves complete.
- 12 rings for starting valve spindle.



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- 4 suction valves for fuel oil pump.
- 4 discharge " " " " "
- 4 pistons " " " " " for 2-cyl. engines.
- 4 " " " " " for 1-cyl. "

Auxiliary air compressors.

- 3 HP suction valves complete.
- 3 HP discharge " "
- 3 IP suction " "
- 3 IP discharge " "
- 9 LP suction " "
- 6 LP discharge " "
- 14 HP piston packing rings for 3-stage compressors.
- 2 HP scrape rings for 3-stage compressors.
- 10 IP piston packing rings for 3-stage compressors.
- 4 IP scrape rings. " " "
- 8 LP piston packing rings " " "
- 6 HP " " " for 2-stage compressors.
- 4 LP " " " " " "
- 1 HP scrape rings " " "
- 2 LP " " " " "
- 2 copper cooling coils for HP cylinders.
- 1 length of 30/38 mm. starting air pipe.
- 1 " " 11/16 mm. injection " "
- 1 " " 4/7 mm. fuel oil pipe
- 1 complete set of all springs used.

Sundry spare parts.

- 1 wing for rotary ballast pump.
- 2 guide blocks for do.
- 1 ball bearing for bilge & sanitary pump.
- 4 valves for do.
- 1 escape valve spring for do.



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- 2 ball bearings for cooling water pump.
- 1 roller bearing for lubricat. oil pump.
- 1 escape valve spring for do.
- 1 " " " " lubr. oil cooling.
- 1 " " " " starting air receiver.

Rubber packing rings of suitable dimensions, packing material, unions & flanges, assorted bolts & nuts, white metal, thermometers etc.

Donkey boilers:-

- 1 safety valve spring.
- 6 plain tubes.
- 2 tube stoppers with screwed ends and washers, 2 patent tube stoppers.
- 2 feed check valves.
- 12 water gauge glasses & 24 packing rings.

Burners and valves &c. for the oil burning aggregate.

- 1 suction & discharge valve for the donkey feed pump.

Electric Light Installation.

- 2 set coal brushes for electromotor for cool. water & lubr. oil.
- $\frac{1}{2}$ set brush holders for do.
- 1 shunt coil for do.
- 1 intermediate pole coil for do.
- $\frac{1}{2}$ set armature coils.
- 3 set coal brushes for electromotors for ballast pump, bilge & sanitary pump and transfer pump.
- $\frac{1}{2}$ set brush holders for do.
- 1 shunt coil do.
- 1 intermediate pole coil for do.
- $\frac{1}{2}$ set armature coils for do. 1
- 1 set coal brushes for electromotor for turning gear.
- $\frac{1}{2}$ set brush holders for do.
- 1 shunt coil for do.
- 1 intermediate pole coil for do.



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1/2 set armature coils for electromotor for turning gear.

3 set coal brushes for 66 kwts. dynamo.

1 brush holder.

1 ball bearing for 30 HP electromotors.

1 " " " 9 HP -"-

1 " " " 3 HP -"-



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