

M.S. "ABRAHAM LINCOLN"

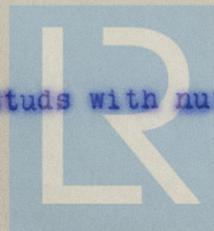
Odense Staalskibsværft's Yard No. 32.

Burmeister & Wain's engines Nos. 1516 & 1517.

List of Spare Gear.

Main engines:-

- 1 cylinder liner.
- 1 cylinder cover with studs & caps.
- 1 set studs with nuts for one cylinder cover.
- 8 oil fuel injection valves complete.
- 4 spindles for do.
- 8 mouth-pieces for do.
- 2 spindles for overflow-valve.
- 8 bursting caps.
- 1 cam for valve lifting gear.
- 2 air inlet valves complete.
- 1 spindle for do.
- 16 exhaust valves complete.
- 4 valves for do.
- 4 seats for do.
- 2 starting valves complete.
- 2 bursting caps for starting air.
- 3 rollers with shafts for valve lifting gear.
- 1 cylinder escape valve complete.
- 1 valve for do.
- 1 seat for do.
- 1 piston complete with rings and studs with nuts.



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- 3 sets (24) piston rings.
- 11 scrape rings.
- 1 telescopic pipe with flange and gland for piston cooling.
- 1 piston rod scrape ring.
- 3 crank pin top brasses.
- 1 crank pin bottom brass.
- 2 crank pin bolts with nuts.
- 4 crosshead bottom brasses.
- 2 " top "
- 2 crosshead bolts with nuts.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 1 complete set of all moving parts of one oil fuel pressure pump.
- 10 coupling bolts with nuts for crank shaft.
- 2 links for the camshaft chain drive.
- 6 coupling bolts with nuts for intermediate shafts.
- 1 propeller shaft with continuous liner and nut.
- 2 cast iron propellers (right and left hand).
- 1 complete set of all springs used for one engine.

Main air compressor:-

- 7 H.P. piston rings.
- 5 M.P. piston rings.
- 4 L.P. piston rings.
- 1 H.P. scrape ring.
- 1 M.P. scrape ring.
- 2 H.P. suction valves complete.
- 2 M.P. " " "
- 10 L.P. " " "



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- 2 H.P. discharge valves complete.
- 2 M.P. " " "
- 9 L.P. " " "
- 3 H.P. suction valve discs.
- 3 L.P. " " "
- 3 H.P. discharge valve discs.
- 3 M.P. " " "
- 2 H.P. cooling coils with flange and union.
- 1 pair of crank pin brasses with bolts.
- 1 pair of crosshead brasses.
- 1 pair of main bearing brasses.
- 1 complete set of all springs used for one compressor.
- 6 springy plates for H.P. suction valves.
- 4 " " for M.P. " "
- 20 " " for L.P. " "
- 6 " " for H.P. discharge valves.
- 4 " " for M.P. " "
- 18 " " for L.P. " "

Auxiliary Diesel engines:-

- 1 piston with trunk pin.
- 18 piston rings.
- 3 scrape rings.
- 1 cylinder cover with studs and nuts.
- 3 oil fuel injection valves complete.
- 3 spindles for do.
- 3 mouth-pieces for do.
- 1 spindle for overflow valve.
- 3 bursting caps.



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- 1 air inlet valve complete.
- 6 exhaust valves complete.
- 3 exhaust valve discs.
- 1 starting valve complete.
- 4 rollers with shafts for valve lifting gear.
- 1 cylinder escape valve complete.
- 1 pair of crank pin brasses with bolts and nuts.
- 1 connecting rod top end bush.
- 2 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 2 rams for oil fuel pressure pump.
- 1 suction valve for do.
- 1 discharge valve for do.
- 1 complete set of all springs used for one engine.

Auxiliary air compressors.

- 7 H.P. piston rings.
- 5 M.P. " "
- 4 L.P. " "
- 1 H.P. scrape ring.
- 2 M.P. " "
- 1 H.P. suction valve complete.
- 1 M.P. " " "
- 3 L.P. " " "
- 1 H.P. discharge valve complete.
- 1 M.P. " " "
- 2 L.P. " " "
- 2 H.P. suction valve discs.
- 2 M.P. " " "
- 2 L.P. " " "



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- 2 H.P. discharge valve discs.
- 2 M.P. " " "
- 2 L.P. " " "
- 1 H.P. cooling coil with flange and union.
- 1 complete set of all springs used for one compressor.
- 3 springy plates for H.P. suction valves.
- 3 " " for M.P. " "
- 5 " " for L.P. " "
- 3 " " for H.P. discharge valves.
- 3 " " for M.P. " "
- 4 " " for L.P. " "

Sundry spare gear.

- 1 impeller wing for ballast pump.
- 2 guide blocks for do.
- 1 suction valve complete for bilge & sanitary pump.
- 1 discharge valve complete for bilge and sanitary pump.
- 1 escape valve spring for do.
- 1 ball bearing for do.
- 1 roller bearing for cooling water & lubricating oil pump.
- 2 ball bearings for do.
- 1 shaft for do.
- 1 set cog wheels with shafts for do.
- 1 escape valve spring for do.
- 1 set cog wheels with shafts for oil fuel transfer pump.
- 1 escape valve spring for do.
- 1 filter basket for fuel oil.
- 1 double filter for fuel oil.



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- 1 escape valve spring for lubricating oil cooler.
2 filter baskets for lubricating oil.
1 escape valve spring for starting air receiver.
1 feed check valve for donkey boiler.
1 safety valve disc for do.
1 safety valve spring for do.
6 water gauge glasses for do.
 $\frac{1}{2}$ set valves with springs for feed pump.
1 atomizer for oil burner.
1 length of each size of pipes used for injection and starting air and fuel oil. Flanges, unions, assorted bolts and studs with nuts, packing material and rubber packings in suitable dimensions ready for use, thermometers &c. &c.

Electric Installation.

- 2 set of carbon brushes and $\frac{1}{2}$ set of brush holders for each size of dynamos and electromotors fitted in the motor room.
1 set carbon brushes and brushholders for each size of electromotors fitted outside the motor room.
1 armature for each size of the following motors:- steering gear, windlass, cargo winches, CO₂ compressors and fans for circulating cooled air in the insulated holds.
Further a number of contact fingers and resistance coils, ball-bearings, serie & shunt coils &c.



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