

List of Spare Gear

for

the M.S. "BORGNY" of Oslo.

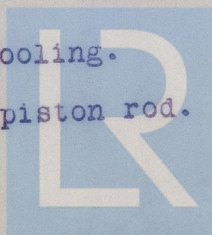
A/S. Aalborg Maskin- og Skibsbyggeri's Yard No. 37

A/S. Burmeister & Wain's Engine No. 1499.

Main engine:-

- 1 cylinder liner.
- 1 cylinder cover with studs, screws and caps.
- 1 set studs with nuts for the valves of one cylinder cover.
- 3 oil fuel injection valves complete.
- 3 spindles for do.
- 3 mouth-pieces for do.
- 1 spindle for overflow-valve.
- 6 bursting caps for injection valves.
- 1 cover for bursting cap.
- 2 air inlet valves complete.
- 1 spindle for do.
- 6 exhaust valves complete.
- 2 valve discs for do.
- 2 bottom pieces for do.
- 2 thermometer-pieces for do.
- 2 starting valves complete.
- 1 cylinder escape valve complete.
- 1 seat for do.
- 1 valve disc for do.
- 3 guide rollers with shaft for valve lifting gear.
- 1 piston complete with rings, studs and nuts.

- 16 piston rings.
- 2 scrape rings.
- 1 telescopic pipe for piston cooling.
- 1 scrape ring with spring for piston rod.



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- 2 bursting caps for starting air.
- 3 crank pin top-brasses.
- 1 crank pin bottom brass.
- 2 crank pin bolts with nuts.
- 3 crosshead bottom brasses.
- 1 crosshead top brass.
- 2 crosshead bolts with nuts.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 9 coupling bolts with nuts for crank shaft.
- 3 coupling screws for do.
- 1 set of all working parts for the oil fuel pressure pump.
- 8 links for the camshaft chain drive.
- 1 bilge pump suction valve complete.
- 1 complete set of all springs used.
- 1 propeller shaft with nut.
- 1 cast iron propeller.
- 7 spindles for the valves on the injection air bottles.
- 1 length of each size of pipes used in suitable lengths and with cones & unions or flanges as required. Assorted bolts and studs with nuts, packing material and rubber packings in suitable sizes ready for use.

Main air compressor.

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



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- 2 H.P. discharge valve discs.
- 2 I.P. suction & discharge valve discs.
- 1 L.P. suction valve disc.
- 1 H.P. cooling coil with flange and unions.
- 1 pair of crank pin brasses with bolts.
- 1 pair of crosshead brasses.
- 3 springy plates for H.P. suction valves.
- 2 " " " I.P. " "
- 9 " " " L.P. " "
- 3 " " " H.P. discharge "
- 2 " " " I.P. " "
- 9 " " " L.P. " "

Auxiliary Diesel engines.

- 1 piston with rings and trunk pin.
- 6 piston rings.
- 1 scrape ring.
- 1 cylinder complete.
- 1 set studs with nuts for the valves of one cylinder cover.
- 1 oil fuel injection valve complete.
- 1 spindle for do.
- 1 overflow valve spindle.
- 2 bursting caps for oil fuel valve.
- 1 air inlet valve complete.
- 2 exhaust valves complete.
- 1 exhaust valve disc.
- 1 starting valve complete.
- 4 rollers with shafts for valve lifting gear.
- 1 cylinder escape valve complete.
- 1 valve disc for do.
- 1 pair of crank pin brasses with bolts.
- 1 connecting rod top end bush.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.



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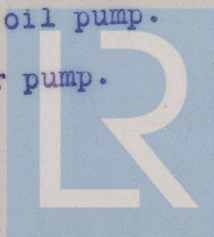
- 1 ball bearing for governor.
- $\frac{1}{2}$ set of all moving parts for one oil fuel pressure pump.
- 1 length of each size of pipes used in suitable lengths and with cones and unions or flanges as required. 1 set of all springs used for one engine.

Auxiliary air compressors.

- 6 H.P. piston rings.
- 8 H.P. intermediate piston rings.
- 1 H.P. scrape ring.
- 4 L.P. piston rings.
- 2 L.P. scrape rings.
- 1 H.P. suction valve complete.
- 1 H.P. suction valve disc.
- 1 H.P. discharge valve complete.
- 1 H.P. discharge valve disc.
- 1 L.P. suction valve complete.
- 1 L.P. suction valve disc.
- 1 L.P. discharge valve complete.
- 1 L.P. discharge valve disc.
- 4 springy plates for compressor valves.
- 1 H.P. cooling coil with flange & union.

Pumps, Electromotors, donkey boiler &c.

- 1 wing for rotary ballast pump.
- 2 guide blocks for do.
- 1 suction valve with seat complete for bilge & sanitary pump.
- 1 discharge " " " " " " " "
- 1 escape valve spring for do.
- 1 ball bearing for do.
- 1 set cog wheels with shafts for lubricating oil pump.
- 1 shaft for cooling water pump.
- 1 roller bearing for lubricating oil pump.
- 2 ball bearings for cooling water pump.



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- 1 escape valve spring for cooling water pump.
- 1 set cog wheels with shaft for spare lubricating oil pump.
- 1 escape valve spring for fuel oil pump.
- 1 " " " " lubricating oil cooler.
- 1 " " " " starting air receiver.
- 2 filter baskets for fuel oil.
- 2 " " " lubricating oil.
- 1 set piston rings for donkey feed pump.
- 1 set valves & seats for do.
- 1 set piston rings for oil fuel transfer pump (forward).
- 1 set valves & seats for do.
- 1 set valves with spindles & springs for oil burning pressure pump.
- 1 set piston rings for do.
- 1 set pump piston rings for do.
- 1 piston rod for do.
- 1 pump rod for do.
- 1 set valves with springs for condenser cooling water pump.
- 1 set piston rings for do.
- 1 set slide valve spindles for do.
- 1 set crank pin brasses for electric light engine.
- 1 slide valve spindle for do.
- 1 set piston rings for do.
- 1 set crosshead brasses for do.
- 2 safety valve springs for donkey boiler.
- 5 plain tubes.
- 2 stay tubes.
- 2 set carbon brushes for each size of dynamo or electromotor.
- 1 set brush-holders " " " " " "



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List of Spare Gear
m/s. Torquay
Gen. Rpt. No. 7931.

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• qumq tetaw gnilooos tot gnitqas evlav equscae

• qumq lio gnilsoctidul etaga tot jtana nliw afeenw goo jes

• qumq lio leut tot gnitqas evlav equscae

• telooos lio gnilsoctidul " " " "

• tevlacet tils gnilstata " " " "

• lio leut tot afeenad tevlit

• lio gnilsoctidul " " " "

• qumq beet yeknob tot agnit notaiq jes

• agnit notaiq .ob tot atsee & bevlav jes

• (dlawtot) qumq tetanast leut lio tot agnit notaiq jes

• ob tot atsee & bevlav jes

• qumq etuaseeq gnilnind lio tot agnitqas & aelbnidqas nliw bevlav jes

• etelqeoos evlav notaiq jes

• ob tot agnit notaiq jes

• etelqeoos evlav notaiq qumq jes

• ob tot beet notaiq

• qumq tetaw gnilooos teanendos tot agnitqas nliw bevlav jes

• ob tot agnit notaiq jes

• ob tot aelbnidqas evlav edlla jes

• enlgne jngill elitjcele tot aasast nliq knuto jes

• notaiq & aequali nliw lioos bevlav

• ob tot elbnidqas evlav edlla

• ob tot agnit notaiq jes

• teliod yeknob tot agnitqas evlav ytates

• ob tot aequali

• qumq ytatesnne & aglid tot etelqeoos jtana nliw evlav notaiq

• totomortjcele tot omawp tot etila nase tot aenastu notitao jes

• " " " " ob "tot "gnitqas" etelblon-nautid jes

• ob tot gnilsoctidul

• qumq lio gnilsoctidul tot etilaga nliw afeenw goo jes

• qumq tetaw gnilooos tot jtana

• qumq lio gnilsoctidul tot gnilsoctidul

• qumq tetaw gnilooos tot agnitqas lioos