

MAY 1931

THE SHIP-BUILDING DEPARTMENT, M. B. K., LTD.

TAMA.

BUILDER'S NO. 180

M.S. " SHOHEI MARU "

S P A R E

G E A R S .

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SPARE GEARS.a) For Main Engine :-

Cylinder :

- 1 - Cylinder head.
- 1 - Set of studs and nuts for one cylinder cover.

Fuel Valve :

- 3 - Fuel valves complete.
- 3 - Push spindles.
- 3 - Valve bushes with stems.
- 6 - Atomizers.
- 1 - Stem for overflow valve.
- 6 - Springs.

Inlet Valve :

- 3 - Inlet valves complete.
- 1 - Loose stem.
- 6 - Springs.
- 1 - Roller with pin.

Exhaust Valve :

- 6 - Exhaust valves complete.
- 3 - Seats with nuts for stem.
- 3 - Loose bottom pieces.
- 6 - Springs.
- 1 - Roller with pin.

Starting Valve :

- 1 - Starting valve complete.
- 1 - Stem.
- 6 - Springs for stem.
- 6 - Springs for piston.
- 1 - Roller with pin.
- 6 - Safety caps.



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Safety Valve :

- 1 - Safety valve complete.
- 6 - Springs.

Piston :

- 1 - Piston complete with rings and pin.
- 2 - Sets of piston rings.
- 2 - Sets of scraper rings.
- 1 - Sets of telescopic pipes with packing.

Connecting Rod :-

- 1 - Pair of crank pin brasses.
- 2 - Bolts with nuts for crank pin brasses.
- 1 - Pair of gudgeon pin brasses.

Main Bearing :

- 1 - Pair of main bearing brasses of each size.
- 2 - Studs with nuts.

Crank Shaft :

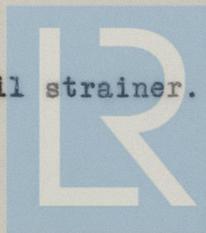
- 1 - Set of coupling bolts.

Chain Drive :

- 10 - Chain links.

Fuel Pump :

- 1 - Fuel pump complete.
- 3 - Pistons with bushes.
- 3 - Slide valves and cases.
- 3 - Pipes from fuel pump to fuel valve.
- 3 - Suction valves.
- 1 - Roller with pins.
- 1 - Set of filter insert for fuel oil strainer.
- 2 - Manometer valves.



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Bilge and Sanitary Pump :

- 1 - Discharge valve complete.
- 1 - Suction valve complete.

Miscellaneous :

- Assorted number of rubber rings for cylinders, cooling water jackets, etc.
- 1 - Length of pipe for starting air of each size with unions or flanges.
- 2 - Meters pantagon and Palmetto packing of each size.
- 3 - Thermometer pieces for cooling water discharge, on exhaust valves.
- 1 - Set of coupling bolts for intermediate shaft.

b) Auxiliary Engine :-

Cover :

- 1 - Set of studs with nuts for one cover.

Inlet Valve :

- 1 - Inlet valve complete.
- 1 - Roller with pin.
- 8 - Springs.

Fuel Valve :

- 2 - Fuel valves complete.
- 4 - Push spindles.
- 4 - Valve bushes with stem.
- 8 - Atomizers.
- 8 - Springs.

Exhaust Valve :

- 3 - Exhaust valves complete.
- 2 - Seats.
- 1 - Roller with pin.



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2 - Nuts of stem.

8 - Springs.

Starting Valve :

1 - Starting valve complete.

8 - Springs.

Safety Valve :

1 - Stem.

1 - Seats.

2 - Springs.

Piston :

1 - Piston complete with rings.

4 - Sets of rings.

Connecting Rod :

1 - Pair of crank brasses.

2 - Bolts with nuts.

1 - Pair of cross head brasses.

Main Bearing :

1 - Pair of brasses of each size.

2 - Studs with nuts.

Compressor :

1 - Set of piston rings of each size.

$\frac{1}{2}$ - Set of suction valves complete of each size.

with seats and springs for one engine.

$\frac{1}{2}$ - Set of delivery valves complete of each size with

seats and springs for one engine.

6 - Springs of each size.

Fuel Pump :

4 - Pistons with bushes.

2 - Slide valves and cases.



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- 4 - Pipes from fuel pump to fuel valve.
- 2 - Suction valves.
- 2 - Manometer valves.
- 1 - Roller with pins.
- 3 - Filter inserts for fuel oil strainer.
- 4 - Springs of each size.

Governor :

- 1 - Spring.

Miscellaneous :

- 1 - Filter mantle for lubricating oil.
- 1 - Filter mantle for fuel oil.
- Assorted number of bolts, studs and nuts.
- Assorted number of rubber rings for cylinders, cooling water jackets, etc.

c) Dynamos :-

- 1 - Set of brushes for one dynamo.
- $\frac{1}{2}$ - Set of brush holder for one dynamo.
- $\frac{1}{2}$ - Flexible joint for brushes.

d) Motor :-

- 1 - Set of brushes for each size fitted.
- $\frac{1}{2}$ - Set of ball bearings for each size fitted.
- $\frac{1}{4}$ - Flexible joint for brushes.

e) Auxiliary Machinery :-

- 1 - Set of suction and delivery valves with seats for bilge and sanitary pump.
- 1 - Set of suction and delivery valves for fuel oil transfer pump.
- 1 - Impeller for ballast pump.
- 2 - Guards for ballast pump.

f) General Spares :-

- 1 - Valve of each size for air bottle.



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- 1 - Packing of each size for air bottle valves.
- 1 - Pipe length with union for fuel oil.
- 1 - Pipe length with union for starting air.
- A quantity of assorted bolts and nuts.
- A quantity of assorted steel plate.

g) Boiler :-

- 1 - Spring for safety valve.
 - 1 - Valve for feed check valve.
 - 6 - Water gauge glasses and 24 packing rings.
 - 1 - Oil burner.
- Sufficient number of fire bricks.



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