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SPARE GEARS :-

All spare gears to be supplied according to the Teishinsho's and Lloyd's requirements and tied in place and neatly strapped on convenient places.

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^h 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.



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- 1 - Seat.
- 6 - Springs for stem.
- 6 - Springs for piston.
- 1 - Roller with pin.
- 6 - Safety caps.

Safety Valve :

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

Piston :

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

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 - Pipes from fuel pump to fuel valve.
- 3 - Suction valves.



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- 1 - Roller with pins.
- 1 - Filter insert for fuel oil strainer.

Bilge and Sanitary Pump :

- 1 - Discharge valve.
- 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 union or flanges. ✓
- 2 - Meters pantagon and Palmetto packings of each size.
- 3 - Thermometer pieces for cooling water discharge, on exhaust valves.
- 1 - Set of coupling bolts for intermediate shaft. ✓

b) Auxiliary Engines :-

Cover :

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

Inlet Valve :

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

Fuel Valve :

- 2 - Fuel valves complete.
- 2 - Push spindles.
- 2 - Valve bushes with stems.
- 6 - Atomizers.
- 3 - Springs, each size.

Exhaust Valve :

- 1 - Exhaust valve complete.



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2 - Seats.

1 - Roller with pin.

3 - Springs.

Starting Valve :

1 - Starting valve complete.

3 - Springs, each size.

Safety Valve :

1 - Stem.

1 - Seat.

1 - Spring.

Piston :

1 - Set of rings for one piston.

Connecting Rod :

1 - Pair of crank brasses.

6 - 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 piston rings of each size. ✓

$\frac{1}{2}$ - Set suction valves complete of each size with seats and ✓
springs for one engine.

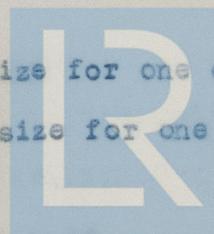
$\frac{1}{2}$ - Set delivery valves complete of each size with seats and ✓
springs for one engine.

$\frac{1}{2}$ - Set suction valves of each size for one engine.

$\frac{1}{2}$ - Set delivery valves of each size for one engine.

3 - Springs of each size.

2 - Per cent pipes for air cooler.



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Fuel Pump :

- 2 - Pistons with bushes.
- 2 - Pipes from fuel pump to fuel valve.
- 2 - Suction valves.
- 1 - Roller with pins.
- 1 - Filter insert for fuel oil strainer.
- 2 - 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 bushes for one dynamo.
- $\frac{1}{2}$ - Set brush holders for one dynamo.

d) Motors :-

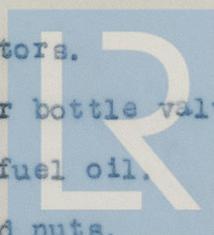
- $\frac{1}{2}$ - Set brush holders for each size fitted.
- 1 - Set of brushes for each size fitted.

e) Auxiliary Machinery :-

- 1 - Set of valves with seats for bilge and sanitary pump.
- 1 - Wing and 2 guide blocks for ballast pump.

f) General Spares :-

- 6 - Glasses for pressure indicators.
- 1 - Packing of each size for air bottle valves.
- 1 - Pipe length with union for fuel oil.
- A quantity of assorted bolts and nuts.



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g) Boiler :-

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

~~TOOLS AND OUTFITS :-~~a) Engine Room :

- 1 - Engineer desk.
- 1 - 8 day engine room clock.
- 2 - Notice boards.
- 4 - Brass oil cans, each 3 lbs. capacity (i.e. one quart).
- 5 - Brass feeders ($\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$ pint each).
- 4 - Brass feeders with spring bottom ($\frac{3}{4}$ pint).
- 2 - Brass syringes, $1\frac{1}{2}$ " x 15".
- 2 - Brass trays for oil cans.
- 1 - Centre bit for oil barrel.
- 2 - 8" brass funnels.
- 2 - Filling cans (one gallon).
- 2 - Fire extinguishers of approved maker.

b) Lamps, etc. :-

- 2 - Davy's safety lamps.
- 2 - Lamp shears.
- 2 lbs. lamp wick for hand lamp.
- 1 - Box for lamp wicks (Japaned tin).

c) Lifting Gears, etc. :-

- 2 - 4 ton worm gear pulley blocks.



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