

S P A R E G E A R

AUXILIARY ENGINES (Type 250-UM)

Cylinders.

- 1 cylinder cover with liner.
- 1 set of studs and nuts for one cylinder cover.

Fuel valves.

- 2 fuel valves complete.
- 1 loose spindle.
- 1 loose bottom.
- 1 set of packing rings for spindle.
- 1 roller with pin.
- 2 springs.
- 4 safety caps.

Inlet valves.

- 1 roller with pin.
- 2 springs.

Exhaust valves.

- 2 exhaust valves complete.
- 1 roller with pin.
- 2 springs.

Starting valves.

- 1 starting valve complete.
- 2 srpings each size.
- 1 roller with pin.

Safety valves.

- 1 seat.



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1 spring.

Pistons.

1 set of piston rings for one piston.

1 set of scraper rings for one piston.

Connecting rods.

1 pair of crank pin brasses.

2 bolts with nuts.

1 gudgeon pin.

1 pair of gudgeon pin bushes.

Main bearings.

1 pair of main bearing brasses.

2 studs with nuts.

Fueloil pumps.

1 piston.

1 suction valve.

1 delivery valve.

1 set of packing rings.

1 non-return valve for distributors.

2 springs each size.

Compressors.

1 pair of crank pin brasses.

2 bolts with nuts.

1 pair of gudgeon pin bushes.

1 set of piston rings for H.P.

1 set of piston rings for I.P.

1 set of piston rings for L.P.

1 set of H.P. discharge valves complete.

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- 1 set of H.P. discharge valve discs with strings.
- 1 set of H.P. suction valves complete.
- 1 set of H.P. suction valves discs with springs.
- 1 set of I.P. discharge valves complete.
- 1 set of I.P. discharge valves discs with springs.
- 1 set of I.P. suction valves complete.
- 1 set of I.P. suction valve discs with springs.
- 1 set of L.P. discharge valves complete.
- 1 set of L.P. discharge valve discs with springs.
- 1 H.P. cooling coil.

Miscellaneous.

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

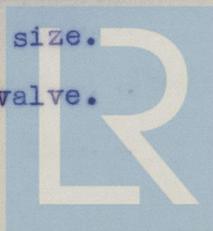
DYNAMOS

- 1 set brushes for one dynamo.
- $\frac{1}{2}$ set of brush holders for one dynamo.
- Suitable number of small spare gear, springs, screws, etc. for shunt regulators.

AUXILIARY MACHINERY

Cooling water and forced lubricating oil pump.

- 1 ball bearing, each size.
- 1 spring for safety valve.
- 1 packing ring.



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Lubricating oil cooler.

2% tubes.

ELECTRIC MOTORS

1 set of brushes for one motor, each size.

$\frac{1}{2}$ set of brush holders for one motor, each size.

Suitable number of small spare gears.

GENERAL SPARES

1 packing of each size for air bottle valves.

1 spindle of each size for air bottle valves.

1 strainer for lubricating oil filter.

INVENTORY

1 indicator.

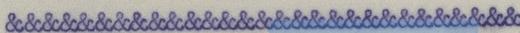
All special tools necessary for disconnecting and overhaul of engines.

Special spanners for each size of nuts where necessary.

1 short heavy spanner for coupling bolts.

1 set of double ended spanners $\frac{1}{4}$ " to $1\frac{1}{8}$ ".

1 set of skeleton spanners $\frac{1}{4}$ " to $1\frac{1}{8}$ ".



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