

List of Spare Gear

for the machinery designated "OSAKA 1"

Burmeister & Wain's Main Engine No. 1590

Burmeister & Wain's auxiliary engines Nos. 1591, 1592 & 1593
for Yokohama Dock Co.'s Yard No. 173.

Main Diesel oil engine:-

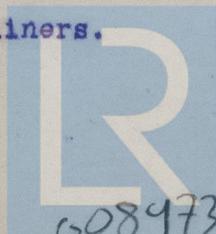
- 1 cylinder cover complete with studs & nuts for fastening of the valves, cylinder liner, water jacket etc.
- 1 set of studs and nuts complete for one cylinder cover.
- 1 cylinder liner.

- 2 pistons with piston rings complete, and studs and nuts for fastening of piston rods.
- 16 piston rings.
- 3 scraping rings.
- 2 scraping rings for the piston rod stuffing box.
- 1 set of studs and nuts for one piston.

- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 pair of crosshead bearing brasses.
- 4 crosshead bearing bolts and nut.
- 2 sets of bolts and nuts for one crank shaft coupling.
- One length of chain and various links for the chain to the cam shaft gearing.

Oil fuel injection valves.

- 6 oil fuel injection valves complete with springs, filters etc. ready for use.
- 3 push spindles with liners.
- 3 valve spindles with pipes and liners.
- 12 atomizers.
- 2 air screw-plugs.



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6 springs.

1 set of internal parts for one filter.

Air inlet valves.

3 air inlet valves complete with springs etc. ready for use.

1 valve disc with spindle and nut.

12 springs.

1 guide with bolt for the valve lifting gear.

Exhaust valves.

6 exhaust valves complete with springs etc. ready for use.

6 valve discs with spindles and nuts.

3 valve discs.

3 steel nuts.

6 bottom parts for the valve chests.

12 springs.

1 guide roller with bolt for the valve lifting gear.

Starting air valves.

1 starting air valve complete with spring etc. ready for use.

1 valve chest with seat.

1 valve spindle.

12 springs.

1 guide roller with bolt for the valve lifting gear.

12 safety caps for starting air.

Oil fuel injection pumps.

1 oil fuel injection pump complete with manometer valve etc.
ready for use.

6 pump pistons with liners and bushes.

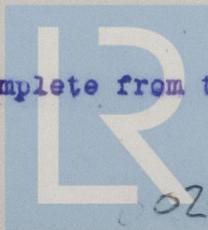
6 slide valves with valve chests and bushes.

6 suction valves complete.

6 springs for do.

4 drawing rods.

3 pressure pipes with flanges complete from the fuel pumps
to the injection valves.



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3 guide rollers with bolts and bearings for the pump levers.

Safety valves.

2 safety valves complete.

1 valve disc.

1 valve chest with seat.

6 springs.

Engine bilge and sanitary pump.

2 suction valve discs, seats and springs complete.

2 delivery " " " " " "

2 suction valve springs.

2 delivery " "

2 bearing brasses.

2 bolts with nuts.

1 bush.

One set of springs suitable for each size used.

A number of india packing rings suitable for each size used.

Auxiliary Diesel oil engines.

2 combined cylinder covers and liners with studs and nuts
complete for fastening of valves etc.

2 sets of studs and nuts complete for 2 cylinder covers.

3 safety valves complete for cylinder covers.

2 safety valve springs.

1 trunk piston complete with crosshead gudgeon pin.

10 piston rings.

6 piston scraping rings.

3 pair of main bearing brasses.

6 main bearing studs and nuts.

3 crank pin bearing brasses.

6 crank pin bearing bolts and nuts.

3 crosshead bushes.

Oil fuel injection valves.

6 oil fuel injection valves complete with springs, filters etc.



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ready for use.

6 push spindles with liners.

6 valve spindles with pipes and liners.

24 atomizers.

3 air screw plugs.

6 springs.

1 rocking lever arm.

Air inlet valves.

3 air inlet valves complete with springs etc. ready for use.

6 springs.

1 guide roller with bolt for the valve lifting gear.

Exhaust valves.

12 exhaust valves complete with springs etc. ready for use.

6 springs.

1 guide roller with bolt for the valve lifting gear.

1 rocking lever arm.

Starting air valves.

3 starting air valves complete with springs etc. ready for use.

6 springs.

1 guide roller with bolt for the valve lifting gear.

1 rocking lever arm.

Oil fuel injection pumps.

1 oil fuel injection pump complete with manometer valve etc.
ready for use.

8 pump pistons with liners and bushes.

8 slide valves with valve chests, bushes and drawing rods.

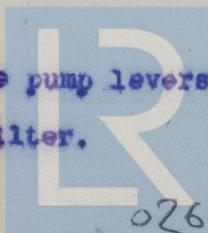
8 pressure pipes with flanges complete from the fuel pumps to
the injection valves.

8 suction valves complete.

4 springs for do.

4 guide rollers with bolts for the pump levers.

1 set of internal parts for one filter.



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One set of springs suitable for each size used.

A number of india rubber rings suitable for each size used.

Governors.

3 springs with holders.

2 cog wheels.

1 ball bearing.

Cooling water pump.

1 piston complete.

1 pair of brasses and bolts.

1 suction valve complete.

1 delivery valve complete.

1 valve disc for escape valve.

1 spring " " "

Lubricating oil pump.

2 liners for the pump.

2 cog wheels.

1 valve disc for the escape valve.

1 spring " " " "

3 filters " " " "

Oil fuel transfer pump.

2 shafts.

4 bushes.

2 cog wheels.

1 stuffing box gland.

1 spring for escape valve.

Lubricating oil cooler.

90 brass tubes.

1 spring for safety valve.

Bilge and Sanitary pump.

1 pair of main bearing brasses.



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- 2 main bearing bolts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts.
- 1 crosshead bush.
- 1 crosshead gudgeon pin.
- 1 ball bearing.
- 1 suction valve complete.
- 1 delivery " "
- 1 spring for escape valve.

Manoeuvring air compressor.

- 1 pair of main bearing brasses.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 crosshead bush.
- 8 L.P. piston rings.
- 10 H.P. piston rings.
- 4 H.P. piston scraping rings.
- 7 L.P. suction valves complete.
- 7 L.P. delivery " "
- 8 H.P. suction " "
- 8 H.P. delivery " "
- 4 springs for L.P. suction valves.
- 4 " " L.P. delivery "
- 2 springs for H.P. suction valves.
- 2 springs for H.P. delivery valves.
- 1 safety valve complete for L.P. air cooler.
- 1 safety valve complete for H.P. air cooler.
- 1 spring for safety valve on L.P. air cooler.
- 1 " " " " " H.P. " "
- 2 cog wheels for the lubricating oil pump.
- 1 filter complete for " " "
- A number of brass tubes suitable for the size used in the L.P.
and H.P. air coolers.



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List of Spare Parts for
"OSAKA"

Steam engine
No. 1590.
Spare parts for
No. 8041.

General Motors
Detroit, Michigan
U.S.A.

General Motors

8054

Total number of
Other tanks, if fitted,
If necessary, furnish further information by sketch.