

List of Spare Gear

for the machinery designated "OSAKA 1"

Burmeister & Wain's Main Engine No. 1590

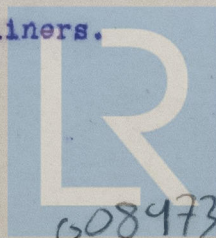
Burmeister & Wain's auxiliary engines Nos. 1591, 1592 & 1593
for Yokohama Dock Co.'s Yard No. 173.

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.

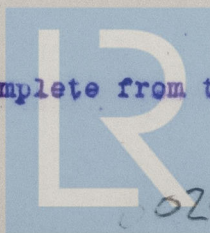
6 slide valves with valve chests and bushes.

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.

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.

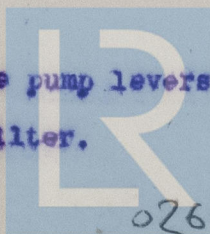
8 pressure pipes with flanges complete from the fuel pumps to
the injection valves.

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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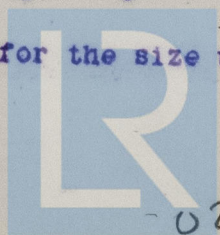
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6.

- 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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not used much & time

Handwritten "Pencil marks"

10 x 100

x 100 x 100 x 100 x 100

100 x 100 / 100

7.8 x 100 x 100 x 100

set of brush holders
ons for the 100 K.V.

[illegible]

not used much & time

Handwritten "Pencil marks"

10 x 100

x 100 x 100 x 100 x 100

100 x 100

100 x 100 x 100 x 100

set of brush holders

ons for the 100 K.V.

Handwritten notes:

not used much & time
A hand held vibrator
10 x 60"
x 19 x 19 inches
O.O.P.
7-8 lbs each

set of brush holders
ons for the 100 K.V.

Handwritten:

not used much & time
A good deal of wire was
10 x 10
used in making the
holders for the 100 K.V.
set of brush holders.

Printed:

set of brush holders
ons for the 100 K.V.

Handwritten:

not used much & time
A good deal of wire was
10 x 10
used in making the
holders for the 100 K.V.
set of brush holders.

Printed:

set of brush holders
ons for the 100 K.V.

not used much & time

Handwritten "continued"

10 x 100

x 100 x 100 x 100 x 100

100 x 100

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

set of brush holders
ons for the 100 K.V.

Handwritten:

not used much & time
A good deal of wire was
10 x 60
used in making the
holders for the 100 K.V.
set of brush holders.

Printed:

set of brush holders
ons for the 100 K.V.

Handwritten:

not used much & time
A good deal of wire was
10 x 60
used in making the
holders for the 100 K.V.
set of brush holders.

Printed:

set of brush holders
ons for the 100 K.V.

Handwritten:

not used much & time
A good deal of wire was
10 x 60
used in making the
holders for the 100 K.V.
set of brush holders.

Printed:

set of brush holders
ons for the 100 K.V.

[illegible]

Handwritten:

not used much & time
A good deal of wire was
10 x 60
used in making the
holders for the 100 K.V.
set of brush holders.

Printed:

set of brush holders
ons for the 100 K.V.

[illegible]

List of Spare Gear for

the machinery designated
"OSAKA"

Bureau of Marine Engineering
No. 1590.

Copenhagen Report No. 8041.

1

When the ship is in the water, the engine is to be run at a speed of 100 revolutions per minute.

The engine is to be run at a speed of 100 revolutions per minute.

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