

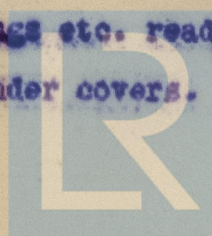
List of Spare Gear  
for the Auxiliary Diesel Oil Engines Nos. ~~1463~~ & ~~1464~~  
designated "MITSUBI 8".

M/V "TAKAMISAN"

MARU"

Auxiliary Oil Engines.

- 2 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 crosshead bearing gudgeon bush.
- 1 complete set of studs and nuts for one cylinder cover, for fastening of valves, water jackets etc.
- 6 piston rings.
- 1 scraping ring.
- 1 air inlet valve complete with springs etc. ready for use.
- 1 guide roller for the air inlet valve lifting levers.
- 1 oil fuel injection valve complete with springs etc. ready for use.
- 1 oil fuel injection valve spindle.
- 6 packing rings for the oil fuel injection valve spindles.
- 1 guide roller for the oil fuel injection valve lifting levers.
- 1 safety cap for the oil fuel injection valves.
- 1 shield cap for the safety cap to oil fuel injection valves.
- 1 exhaust valve complete with springs etc. ready for use.
- 2 exhaust valve seats.
- 1 guide roller for the exhaust valve lifting levers.
- 1 starting valve complete with springs etc. ready for use.
- 1 spindle for safety valves on cylinder covers.



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2.

- 1 valve seat for safety valves on cylinder covers.
- 2 plunger pistons for the oil fuel pressure pump.
- 1 suction valve for the oil fuel pressure pump.
- 1 delivery valve for " " " " "
- 8 packing rings for the oil fuel pressure pump pistons.
- 1 lubricating oil strainer.
- 1 fuel oil strainer.

Auxiliary Air compressors.

- 13 H.P. piston rings.
- 2 H.P. piston scraping rings.
- 14 M.P. piston rings.
- 2 M.P. piston scraping rings.
- 8 L.P. piston rings.
- 2 L.P. scraping rings.
- 2 H.P. suction valves, complete with seats, springs etc. ready for use.
- 2 H.P. delivery valves, complete with seats, springs etc. ready for use.

- 1 M.P. suction valve complete with seat, spring etc. ready for use.
- 1 M.P. delivery " " " " " " " "
- 1 L.P. suction valve " " " " " " " "
- 1 L.P. delivery valve " " " " " " " "
- 1 H.P. suction valve seat.
- 1 H.P. delivery valve seat.
- 1 M.P. suction valve seat.
- 1 H.P. delivery valve seat.
- 1 L.P. suction valve seat.
- 1 L.P. delivery valve seat.



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3.

2 copper H.P. air cooling coils with coupling flanges and unions.  
ready for use.

A number of springs suitable for each size and design used at  
the engines and air compressors.

7 valve spindles of various size, suitable for the valves on the  
high pressure air receivers.

A number of assorted india rubber rings and packing material  
suitable for each size used at the engines and air  
compressors.

A quantity of "Palmetto" patent packing material for the valves  
on the air receivers.

Generators.

18 carbon bushes for the 66 K.W. generator.

9 brush holders " " " " "

12 carbon bushes for the 33 K.W. generator.

6 brush holders " " " " "

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