

List of Spare Gear for the Machinery  
of Steel Twin Sc. Sr. "Formosa" of Gothenburg  
Burmeister & Wain's Yard No. 315.

Cpn. Rpt. No. 6090

Main Diesel Engines:

- 3 crank pin top brasses.
- 6 connecting-rod bottom end bolts and nuts.
- 4 crosshead bottom brasses.
- 8 connecting rod top end bolts and nuts.
- 1 pair of main bearing brasses.
- 4 main bearing bolts and nuts.
- 1 piston with piston rod complete.
- 26 piston Ramsbottom packing rings.
- 12 exhaust valves with chests, seats, spindles and springs  
complete.
- 3 exhaust valve seats.
- 2 starting valves with chests, seats, spindles and springs  
complete.
- 6 fuel valves with chests, seats, spindles and springs complete.
- 3 fuel valve spindles.
- 6 fuel valve seats.
- 2 guide rollers for air-inlet valve and exhaust valve with  
spindle.
- 1 guide roller for fuel valve with do.
- 1 " " for starting valve with do.
- 1 regulator shaft fuel pump.
- 3 delivery valves for do.
- 3 suction valves for do.
- 3 pistons for do.
- 8 studs with nuts for main cylinder cover.
- 2 spindles for overflow valves.



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3 thermometer pieces for cooling water exhaust  
 2 telescope pipes for pistons with stuffing boxes and packings  
     complete.  
 12 lignum vitæ packings for telescope pipes.  
 24 leather packings for                      do.  
 24 do. for fuel pump pistons.  
 6 air inlet valves.  
 6 fuel valves.  
 6 starting valves.  
 6 starting valves to the air cylinders.  
 6 cylinder cover safety valves.  
 6 lifting gears for exhaust valves.  
 9 fuel pump delivery valves.  
 9 fuel pump suction valves.  
 6 fuel pump check valves.  
 1 fuel pump safety valve.  
 1 lever arm for the governor.  
 1 hand lever for reversing engine.  
 2 starting valves for    do.  
 2 starting air slide valves.  
 2 levers for do.  
 2 regulators for do.  
 1 safety valve for the air pipes.  
 1 stop valve with safety valve for the air pipes.  
 2 air compressor H. P. suction valve complete with springs.  
 2    "                      "    H.P. delivery valve complete with do.  
 7    "                      "    M.P. suction valves complete with do.  
 7    "                      "    M.P. delivery valves complete with do.  
 12   "                     "    L.P. suction valves complete with do.  
 11   "                     "    L.P. delivery    "                      "                      "                      "  
 16 compressor piston packing rings.  
 1 valve box with valves and spindles complete for the air  
     receivers.



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3.

4 spindles to valves on the working and spare air receivers.  
Various lengths of pipes suitable pipes and fittings.

Auxiliary Diesel engines:

- 1 pair connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 pair connecting rod top end brasses.
- 2 pair main bearing brasses.
- 4 main bearing bolts and nuts.
- 14 piston Ramsbottom packing rings.
- 4 exhaust valves with chests &c. complete.
- 2 exhaust valve discs.
- 2 fuel valves with chests &c. complete.
- 2 fuel valve spindles.
- 1 spindle for overflow valve.
- 1 fuel pump suction valve.
- 1 fuel pump delivery valve.
- 1 fuel pump piston.
- 8 studs with nuts for cylinder cover.
- 1 compressor H.P. suction valve.
- 1 compressor H.P. delivery valve.
- 1 compressor L.P. suction valve.
- 1 compressor L.P. delivery valve.
- 8 H.P. compressor piston packing rings.
- 4 L.P. compressor piston packing rings.
- 8 distance rings.
- 12 leather packings for fuel pump pistons.
- 2 springs for fuel valves.
- 2 " for air inlet valves.
- 2 " for exhaust valves.
- 2 " for starting valves.
- 2 " for cylinder cover safety valves.
- 1 spring for fuel pump suction valve.



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4.

- 1 spring for fuel pump delivery valve.
- 1 " for fuel pump check valve.
- 2 " for indicator gear.
- 1 spring for starting gear.
- 2 springs for air compressor H.P. suction valves.
- 2 springs for air compressor H.P. delivery valves.
- 2 springs for air compressor L.P. suction valves.
- 2 springs for air compressor L.P. delivery valves.
- 2 guide arms for fuel pump gear.

Auxiliary air compressor:

- 4 L.P. suction valves complete.
- 5 L.P. delivery valves complete.
- 5 M.P. suction do. do.
- 5 M.P. delivery do. do.
- 4 L.P. piston packing rings.
- 5 M.P. do. do.
- 2 crank pin top brasses.
- 2 connecting rod bottom end bolts.
- 1 pair crosshead brasses.
- 4 safety valve springs.
- 1 spring for the oil filter.

Spare Air compressor:

- 1 pair crosshead brasses.
- 2 crank pin top brasses.
- 1 set of piston packing rings.
- 1 set of valves and seats.

Auxiliary Machinery:

- ½ set of valves and seats for bilge pumps.
- ½ set of valves and seats for sanitary pumps.
- 1 spring for each size of escape valves.



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*pressure air receivers for clearing main by means of*



Donkey Boiler:

One safety valve spring.

One feed check valve.

2 sprayers for the oil fuel burners.

$\frac{1}{2}$  set of feed pump valves.

6 water gauge glasses.

Shafting:

One propeller shaft with nut.

2 cast iron propellers.

1 set of coupling bolts.

A quantity of assorted bolts and nuts.

A quantity of various sizes of bar iron, pipes, flanges,  
unions and fittings.

One spare armature complete for the steering gear electro motor.

Sundry suitable coal brushes and brush holders.

Various spare parts for the dynamos and electro motors, and for  
the electric lighting and power installation.

*A. S. Fribech* ✓  
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