

List of spare gear for main engine.Working cylinder cover complete with all valves, valve seats etc.,
Comprising:-

Cylinder cover (top part) complete with studs, nuts, rubber rings, zinc plugs and fibre washers.)	
Cylinder cover (bottom part) complete with casing for fuel valve rubber rings and copper washers.)	
Fuel valve complete.)	
Fuel delivery non-return valve complete.)	1
Safety and compression release valves complete.)	
Indicator valve complete.)	

Working cylinder piston complete.Comprising:-

Piston head complete with studs and nuts.)	
Piston skirt.)	
Piston rod complete with piston rod nut, flange, plug, fibre washer and internal P.W.S. pipes.)	1

Complete set of bevel wheels for camshaft drive.Comprising:-

Camshaft wheel	1
Vertical shaft wheels	2
Eccentric shaft wheel	1

Main connecting rod spares.Comprising:-

Complete bottom end with bolts and nuts	1
Complete top end with bolts and nuts.	1

Cylinder liner complete.

1

Complete set of working parts for one fuel pump for one cylinder.Comprising:-

Suction valve	1
Delivery valve	1
Suction valve spring 0.75/7 x 40.5	1
Delivery valve spring 1.5/5.3 x 21.5	1
Plunger	1
Plunger guide	1
Guide block	1
Guide block pin	1
Eccentric shoe	1
" strap	1
45/35 x 106	1



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Main bearing studs complete with nuts.	4
Fuel valve spindles	3
Main engine piston rings 420 x 9.9 x 12	11
" " " " Daros Duplex 420 x 9.9 x 12	4
Daros wearing rings for main engine pistons	6
Withdrawing tool for Daros Duplex rings	1
Main engine piston skirt rings 420 x 10.9 x 12	6
P.W.S. Telescopic inlet pipe and flange	1
P.W.S. Telescopic outlet pipe and flange with internal tube.	1
Cranksaft coupling bolts and nuts	8
Intermediate shaft coupling bolts and nuts.	6
Cylinder cover studs and nuts	12
Scavenge pump valves	5
Fuel valve complete	1
Fuel delivery non-return valve complete	1
Indicator valve complete	1
Safety and compression release valves complete	3
<u>Compressor spares.</u>	
L.P.compressor piston rings 400 x 8.9 x 12	3
M.P.compressor piston rings 290 x 7.9 x 9	4
H.P.compressor piston rings 115 x 7.9 x 3.5	8
H.P.compressor valves	2
M.P. compressor valves	2
L.P.compressor valves	4
H.P. Intercooler tubes	2
M.P. Intercooler tubes	2
L.P. Intercooler tubes	2
H.P. compressor safety valve	1
M.P. compressor safety valve	1
L.P. compressor safety valve	1

Special Packing

3 lbs. Fibrous metallic for fuel valves.

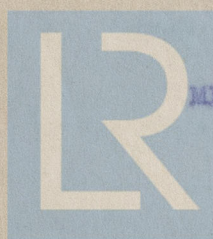


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W 81 013 (216)

Position.	Drg. No.	No. off
<u>Complete set of rubber rings</u>		
Comprising:-		
Bottom of cylinder liner, 455 x 5	MPA - 281	6
Bottom of cylinder liner, 465 x 5	"	6
Middle of cylinder liner, 525 x 5	"	12
Top of cylinder liner, 560 x 5	"	6
Top of cylinder liner, 25 x 7 x 7 sq.	MPA - 246	72
Top cylinder cover, 540 x 5	MPB - 110	12
Bottom cylinder cover, 205 x 5	MPB - 109	24
Casing for fuel valve (top), 100 x 5	MPB - 102	6
Casing for fuel valve (bottom), 75 x 5	"	6
Piston cooling pipes in piston rod, 50 x 5	MPA - 911	24
Piston rod flange, 128 o.d. 65 i.d. 1 m.m. thk.	"	6
Piston rod flange, 115 x 5	"	6
Piston rod flange, 125 x 5	"	6
Piston cooling inlet to & outlet from piston rod, 25 x 5	MPL - 528	24
P.W.S. inlet & outlet pipes & outer pipes top & bottom, 40 x 5	MPL - 531	96
P.W.S. internal pipes, in P.W.S. Chamber 65 x 5	MPL - 535	12
P.W.S. stuffing box, 50 x 5.	MPL - 533	12
P.W.S. stuffing box housing 70 x 5	"	12
P.W.S. stuffing box gland rings 70 x 5	MPL - 534	18
L.P. air pump cylinder jacket, 540 x 5	MPF - 100	4



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Position.	Drg. No.	No. off
L.P. air pump cylinder (bottom)		
635 x 7	M.P.F.-100	1
L.P. air pump cylinder (top)		
38 x 7 x 7 sq.	"	6
H.P. air pump cylinder liner		
140 x 5	MPF - 105	one
HP air pump cylinder cover		
36 x 7 x 7 sq.	MPF - 102	4
Water inlet for H.P. cooler		
60 x 5	PF - 773	one
Water inlet for MP cooler		
95 x 5.	MPF - 719	one
Water inlet for L.P. cooler		
95 x 5	MPF - 716	one
H.P. cooler bottom gland		
60 x 7	PF - 771	one
M.P. & L.P. cooler bottom glands		
100 x 7	PF - 780	2
Scavange pump valve seats		
195 x 5	MPH - 204	24
Scavange pipes, 430 x 7	MPH - 600	6
Starting air valve cover		
30 x 5	MPG - 38	2



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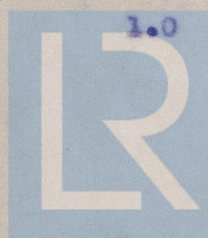
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An assortment of Copper, Fibre, Copper-asbestos & Klingeret washers comprising:-

(a) Copper Washers.

<u>Outside Dia.</u>	<u>Inside Dia.</u>	<u>Thickness</u>	<u>No off.</u>
18	7.5	1.5	3
18	14	1.5	4
18	14	0.5	6
20	7	1.5	6
20	15	1.5	3
23.5	18	1.5	6
23.5	18	0.5	2
24.5	14	0.5	8
27	14	1.5	1
27	22	0.5	6
27	22	1.5	6
29.5	23.5	1.5	3
31	20	1.0	1
34	27	1.5	6
34.5	11.5	0.1	3
38	31	1.5	3
42	24	2.0	3
44	34	1.5	12
45.5	41	0.5	2
46.5	39.5	1.0	1
48	38	0.5	1
53	44	0.5	3
57	49	0.5	3
72	62	1.5	3
74.5	62.5	1.5	3
79.5	74.5	0.5	4
99.5	92.5	0.5	6
150	131	1.0	1
479	441	1.0	6



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(b) Fibre Washers.

<u>Outside Dia.</u>	<u>Inside Dia.</u>	<u>Thickness</u>	<u>Bo off.</u>
12	4	2	6
14	10	2	12
15	6	2	2
18	14	2	12
23.5	18	2	8
27	22	2	18
29	23.5	2	6
34	27	2	12
34	27	1.6	3
38	31	2	3
40	34	2	2
44	34	2	6
48	38	2	6
50	43	2	6
53	44	2	2
55.5	48	2	4
60	22	2	6
72	62.5	2	3
102	90	2	12
105	89	2	1
131	118	2	2
145	132	2	2

(c) Copper-asbestos Washers.

1 1/2"	8"	-	6
53	39	2	1
55	39	2	1
89	71	2	4
109	91	2	3

(d) Klingeret washers.

34	22	1	24
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Spare 32-38-7

275-65 Internal diameter