

Copy of Packing Note.

M. A. N.

AUGSBURG.

to Messrs. J.S. Doig (Grimsby) Ltd.
West Side Yard, Royal Docks, Grimsby, Lincs.

19th April, 1950.

Weight:
Gross:

D/Rep. 453 546 partial delivery,
D/Rep. 453 601, D/Rep. 453 924

Spare parts and 1 set stud screws
for MAN Diesel engine G3V42 packed
as follows:

Transport insurance will be covered by
MAN ex Works Augsburg to free board sea-
going vessel Bremen against all usual
risks, including breakage.

D/Rep. 453 546 partial delivery

305.- 1 case 1080/850/520/25 (seaworthy)

D/Rep. 453 546 partial delivery

415.- 1 case 1080/600/25 (seaworthy)

2 cylinder covers compl. with
suction-exhaust and starting
valves compl. fitted

Inv.No.

2, 5, 6
and 8

4 cap nuts
4 stud screws with nuts and
zinc protection
2 fuel needle valves with
delivery pipes
2 safety valves

3
4

415.-

D/Rep. 453 546 partial delivery

212.- 1 case 720/660/480/25 (seaworthy)
2 main pistons comp. Inv. No. 10.

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752.-	<u>1 case 1310/1060/660/25 (seaworthy)</u>	Inv. No.
10	piston rings	11
2	oil scraper rings <i>small</i>	12
4	" " " <i>large</i>	13
1	fuel needle valve with delivery piping	14
8	needle casings with nozzle needles	15
8	nozzles	16
8	tension sleeves	17
1	starting valve	18
1	starting control slide valve	19
1	suction valve withoutwhirling screen	20
2	exhaust valves	21
1	safety valve	22
1	indicator valve	23

For Push Rods.

2 rollers with bushes	24
2 roller bolts	25

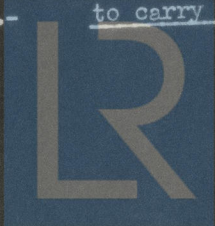
For suction and Exhaust levers.

2 bolts with adjusting splits	26
2 bushes	27
4 thrust plates with nuts and splits	28
1 piston pin bearing with lining	29
1 wedge	
2 crank pin bearings	30
1 crankshaft bearing	31
1 crankshaft adjusting bearing	32
4 bearing cover bolts with cast.nuts and splits	33

For Main Starting Valve.

1 valve cone with distance sleeves	34
valve spindle, spring, spring	
plate and split	
1 cone with spring	35
1 spur wheel, parted, on crankshaft	36
1 intermediate wheel with bush	37
1 wheel on cam shaft	38

752.- to carry forward.



ward. 2020

752.-

	Inv. No.
<u>For Fuel Pump.</u>	
2 fuel pumps complete	39
3 suction valves with springs, spring plates and conical studs	40
3 delivery valves with springs and stops	41
3 spill valves	42
8 plunger guides with plungers and springs	43
2 pressure pieces with guide bushes and springs	44
2 fuel cams with bushes, nut, safety screw and safety wire	45
<u>For Fuel Pump Drive.</u>	
2 rollers with bushes	46
2 roller bolts with headless crews	47
<u>For Lubricating Oil Pump.</u>	
1 bearing insert (front)	48
1 front bearing insert	49
1 bearing insert (behind)	50
1 behind bearing insert	51
1 driving shaft with wheel	52
1 adjusting spring	
1 hexagonal nut	
1 safety sheet	
1 roller with wheel	53
2 delivery valve cones with springs	54
2 suction valve cones with springs	55
2 Abil-joints	56
2 " "	57
2 " "	58
1 " "	59
<u>For cooling Water Pump.</u>	
1 suction valve complete	60
1 delivery valve complete	61
1 valve spindle with nuts and safety sheets for suction and delivery valve	62
<u>For Bilge Pump.</u>	
1 suction valve complete	63
1 delivery valve complete	64
1 valve spindle with nuts and safety sheets	65
<u>For Fuel Supply Pump.</u>	
1 driving gear wheel with bush and groundbush	67
1 driving gear wheel with bushes	68

752.-

Inv.
No.

2 suction valve cones with springs
and spring plates 69
2 delivery valve cones with springs 70
1 filter element for filter on engine 71
For Fuel Duplex Filter.

2 wire nettings 72
1 bottom
1 ring
3 brackets
1 rivet

For Lubricating Oil Duplex Filter.

1 filter pipe with filter elements 73

For Starting Air Receiver Head, for
Stop Valve.

1 valve spindle with valve point
and valve seat 74

For Compressor Valve.

1 valve spindle with valve point and
valve seat 75

For Pressure Gauge Valve.

1 valve spindle with valve point
and valve seat 76

For Disaeration Valve.

1 valve spindle with valve point
and valve seat 77

For the Ship's Air Valve.

1 valve spindle with valve point
and valve seat 78

Ball Bearing.

1 ball bearing 79
1 " " 80
1 " " 81
1 " " 82

2 bearing cover bolts with cast,
nuts and splits 83

4 stud screws with cast, nuts for
fixation of cylinder cover 84

For Fuel Pump Pedestal.

2 stud screws with nuts and safety sheet 85

752.- to carry forward.

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Foundation

752.-

Inv.No.

For Cam shaft Bearing.

2 stud screws with nuts and safety sheet	86	
2 connecting rod bolts with cast nuts and splits	87	7
4 stud screws with nuts for suction and exhaust valve	88	3
6 elastic shims only for exhaust valve	89	9
2 stud screws with nuts	90	0
2 " " " " for starting valve	91	
2 head screws for suction piping	92	1
2 " " " exhaust "	93	
2 stud " with nuts for lever axle support	94	3
2 stud screws with nuts and zinc protection	95	4
8 fuel delivery pipes	97	5

Screwed Pipe Connections.

2 branch nipples	98	7
2 angular screwed connections	99	
2 pipe connections (screwed)	100	8
2 angular screwed connections	101	9
2 branch nipples	102	0
2 angular screwed connections	103	1
2 pipe connections	105	2
2 branch nipples	104	
2 nipples connections	106	
2 angular screwed connections	107	3
2 nipples connections	108	
2 angular nipples	109	4
2 " "	110	5

Springs.

2 springs for suction valve	111	
2 " " exhaust "	112	46
2 " " starting "	113	47
2 " " " control side valve	114	48
2 springs for safety valve	115	49
2 springs for fuel needle valve	116	50
2 springs for fuel pump piston	117	51
2 springs for fuel pump suction valve	118	
2 springs for fuel pump delivery "	119	152
2 springs for fuel pump spill " "	120	53
2 suction valve springs for lubr. oil pump	121	54

752.-

Carried Forward.

	Inv. No.
752.- (Springs - contd.)	
2 delivery valve springs	122
2 governor springs	125
2 " "	125
2 " "	126
2 suction valve springs for supply pump	127
2 delivery valve springs for supply pump	128
<u>For Cool Water and Bilge Pumps.</u>	
12 suction valve springs	129
12 delivery valve "	130
<u>Joints.</u>	
16 Cu-joints betw. cylinder & cover	131
16 Klingerit joints between frame and cylinder liner	132
32 rubber joints for cylinder liner	133
<u>For Cylinder Cover.</u>	
32 rubber joints	134
32 rubber cloth joints	135
16 Abil joints	136
16 rubber joints	137
<u>For Main Starting Valves.</u>	
2 It joints	138
2 Cu-joints	139
2 " "	140
2 " "	141
2 " "	142
16 Cu-Asbestos Joints between Cylinder Cover and Exhaust Pipe Line	143
<u>For Fuel Pump.</u>	
16 Cu-joints	144
16 " "	145
<u>Joints for Gear Wheel Pump. for Fuel Supply Pump.</u>	
16 Abil-joints	146
4 " "	147
4 " "	148
4 " "	149
2 card board joints	
Cotton cord graphit packing 6 mm. square	150
10 leather joint rings	151
<u>For Cool Water and Bilge Pump.</u>	
2 tallow cord packings 10 sq.600 long	152
4 rubber joint plates	153
2 Abil joints	154
4 " "	155
4 Cardboard joints	156
752.- <u>Carried forward.</u>	

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752.-

For Starting Air Receiver Head.

	Inv. No.
2 Cu-joints	157
2 " "	158
2 " "	159
2 " "	160
4 " "	161
4 " "	162
2 " "	163
2 " "	164
2 " "	165
2 " "	166

752.-



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3rd May, 1950.

Copy of Packing Note.

enial Development Corporation, 33 Dover Street, London W.1.

D 2 VK.50 142

19.-4.1950.

D/Rep. 453 924

carton 300/220/120/120 Gross 7. - kg.

set stud screws and nuts for cylinder cover consisting of:-

For Suction and Exhaust Valve.

- 4 stud screws
- 4 nuts
- 6 elastic shims

For Fuel Needle Valve.

- 2 stud screws
- 2 nuts

For Starting Valve.

- 2 stud screws
- 2 nuts
- 2 head screws for suction pipe line
- 2 head screws for exhaust pipe line

For lever Axle Support.

- 2 stud screws
- 2 nuts
- 2 zinc protections
- 2 stud screws with nuts
packed with D/Rep. 453 546
in case No. 4.

CDC GRIMSBY.



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D/Rep. 453 601.

170.- 1 case 1150/880/310/25 (seaworthy) Inv.No.

1 set spare parts as per part
list 680 page 1-3 consisting of:-

3 fuel needle valves compl.	14
3 fuel delivery pipes compl.	14
2 exhaust valves compl. cooled	21
1 piston pin bearing with lining and wedge	29
1 crankshaft bearing	31
1 crankshaft adjusting bearing	32
4 bearing cover bolts with cast, nuts and solits	33

For Fuel Pump.

3 suction valves compl. with cones and springs	40
3 delivery valves compl. with cones and springs	41
3 spill valves compl. with guide bushes	42

For Filter on Engine.

2 filter elements	71
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For Fuel Duplex Filter.

3 brackets	} = 1 insert	72
2 wire nettings		
1 bottom		
1 ring		
1 rivet		
1/2 sqm asbestos plate 2 mm		
1/2 sqm rubber cloth 2 1/2 mm		
1/2 sqm prespan 1 mm		
1 tin flaked graphit = 2 kg.		
1 tin valve grinding paste No.1		
1 " " " " " " " "	3	
2 " grey colour = 1 kg.		
2 " copal varnish = 1 kg.		
1 kg. Manganesit		

170.- Carried forward.

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170.- Brought forward.

Inv.
No.

3 piston rings, right	11
2 piston rings, left	12
1 oil scraper ring	13
2 oil scraper rings	16
8 nozzles	
4 exhaust valve springs	112
14 fuel needle springs	116

170.



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