

# Maintenance interval g-box 50



**Attention:**  
**Before attempting any work activate maintenance stop and observe operating instruction!**

g-box 50	
Operating hours	Maintenance level
2.500 OH	M1
5.000 OH	M1
7.500 OH	M2
10.000 OH	M1
12.500 OH	M1
15.000 OH	M3
17.500 OH	M1
20.000 OH	M4
22.500 OH	M2
25.000 OH	M1
27.500 OH	M1
30.000 OH	M5
32.500 OH	M1
35.000 OH	M1
37.500 OH	M2
40.000 OH	M6
42.500 OH	M1
45.000 OH	M3
47.500 OH	M1
50.000 OH	M1
52.500 OH	M2
55.000 OH	M1
57.500 OH	M1
60.000 OH	M7

g-box 50	
Operating hours	Maintenance assignment
every 1250 OH	Oil change

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# Maintenance plan

## g-box 50



Maintenance operation	M1	M2	M3	M4	M5	M6	M7
Customer instructions and operating log check completed	X	X	X	X	X	X	X
Pressures and temperatures checked for plausibility	X	X	X	X	X	X	X
Start-up process checked	X	X	X	X	X	X	X
Start / stop behaviour checked	X	X	X	X	X	X	X
All work documented in the operating log / assembly log	X	X	X	X	X	X	X
Original mode of operation re-established	X	X	X	X	X	X	X
Runtime report and alarm history selected	X	X	X	X	X	X	X
System and installation room cleaned	X	X	X	X	X	X	X
<b>Oil</b>							
Oil and filter change carried out	X	X	X	X	X	X	X
Oil reservoir refilled	X	X	X	X	X	X	X
Engine oil level checked	X	X	X	X	X	X	X
Oil fill level regulator and switch contacts cleaned, switching points tested	X	X	X	X	X	X	X
Ventilation hose on the oil level regulator checked (for blockage, etc. and replaced as necessary)	X	X	X	X	X	X	X
Crankcase pressure checked and adjusted if necessary	X	X	X	X	X	X	X
Pressure regulation valve with oil separator replaced	X	X	X	X	X	X	X
<b>Engine mechanics</b>							
Compression pressure measured	B	X	X	B	X	X	X
Valve clearance adjusted	X	X	X	X	X	X	X
Valve cover gasket replaced	X	X	X	X	X	X	X
Rocker arms and bearings checked	X	X	X	X	X	X	X
Pushrods inspected	X	X	X	X		X	X
Pushrods cleaned					X		
Cylinder heads replaced (before cylinder head replacement, perform compression pressure test and enter in the log)					X		X
Cylinder liners replaced					X		X
Connecting rod replaced					X		X
Connecting rod bearing replaced					X		X

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Maintenance operation	M1	M2	M3	M4	M5	M6	M7
Crankshaft main bearing replaced					X		X
Pistons replaced					X		X
Coupling replaced						X	
<b>Ignition</b>							
Spark plug sockets inspected	X	X	X	X	X	X	X
Spark plug sockets replaced	X	X	B	B	B	B	B
Spark plugs: electrode gas checked	X	X	X	X	X	X	X
Spark plugs replaced	X	X	X	X	X	X	X
Ignition timing checked	X	X	X	X	X	X	X
Ignition timing adjusted	X	B	B	B	B	B	B
Wiring and plug connection on the ignition system checked and plugs retightened as necessary	X	X	X	X	X	X	X
<b>Electrics</b>							
Cable connection inside the generator checked for abrasion	X	X	X	X	X	X	X
Generator bearing greased with PETAMO GY 193	X	X	X	X	X	X	X
Generator terminals greased and tightened	X	X	X	X	X	X	X
Generator bearing replaced						X	
Emergency stop switch: Function test carried out	X	X	X	X	X	X	X
Gas low pressure switch: Function test carried out	X	X	X	X	X	X	X
Main switch: Function test carried out	X	X	X	X	X	X	
Heater emergency stop switch: Function test carried out			X				
<b>Exhaust system / Catalyst</b>							
Exhaust gas line checked for fastening and tightness	X	X	X	X	X	X	X
Condensate drains (neutralisation) checked and cleaned	X	X	X	X	X	X	X
Condensate drains (water trap / siphon) checked, cleaned and if necessary filled	X	X	X	X	X	X	X
Emissions measurement carried out	X	X	X	X	X	X	X
Exhaust gas heat exchanger replaced	B	B	B	B	B	B	B
Exhaust gas hoses (internal) replaced			B		X	B	B
Lambda sensor replaced		B	B		X	X	B

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<b>Filter elements</b>							
Natural gas: Gas filter in filter housing or in multiblock checked and leak test carried out (leak detection spray)	X	X	X	X	X	X	X
Natural gas: Gas filter in filter housing or in multiblock replaced and leak test carried out (leak detection spray)	B	B	B	B	B	B	B
Air filter replaced	X	X	X	X	X	X	X
Filter inserts in the control cabinet, load control cabinet, sub-distribution cabinet checked	X	X	X	X	X	X	X
Filter inserts in the control cabinet, load control cabinet, sub-distribution cabinet replaced	B	B	B	B	B	B	B
Raw and clean gas hoses of crankcase ventilation inspected	X	X	X	X	X	X	X
Raw gas hose replaced	B	B	B	B	B	B	B
Clean gas hose replaced	B	B	B	B	B	B	B
<b>P&amp;ID System</b>							
Coolant level / pressure and content checked	X	X	X	X	X	X	X
Coolant refilled	B	B		B		B	
Coolant replaced			X		X		X
Gas mixer checked	X	X	X	X	X	X	X
Gas mixer cleaned	B	B	B	B	B	B	B
All gas shutoff valves: Function test carried out	X	X	X	X	X	X	X
Flexible connection lines (water) replaced							X
Flexible connection lines (exhaust gas) replaced							X
Flexible connection lines (oil) replaced							X
Machine feet inspected		X	X		X	X	X
Machine feet replaced		B	B		B	B	B
Mixer system: Visual examination performed	X	X	X	X	X	X	X
Engine cooling system: venting carried out	X	X	X	X	X	X	X
Gas line checked and leak test carried out	X						
Expansion tank checked for function and pre-pressure (engine circuit / heating circuit)	X	X	X	X	X	X	X
Engine circuit: Coolant hoses replaced	X	B	B	B	B	X	X

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Heating circuit: Coolant hoses replaced	X	B	B	B	B	X	X
Heating circuit: Supply and return - stainless steel armoured hoses replaced							X
Dirt trap on the day tank side cleaned	X	X	X	X	X	X	X

Key:

B: if necessary