

5.1 Maintenance Schedule

5.2 Maintenance Chart

5.3 Maintenance Work Completed

Routine Maintenance

5.1 Maintenance Schedule

5

Operating Hours (OP) every 1)									check				see Section
once after 2) 50-150	every 10 OH or daily	125	250	500	750	1000	2000	3000	clean				
									change				
									Operation				
	●								●			Oil level in engine / separate container 9)	6.1.2/3.1.4
●									●			Engine leaks	
	●								●			Oil bath- and dry type air cleaners 3) 4) 5)	6.4
		●							●			Battery and cable connectors	6.7.1
		●	●	●		●	●		●			Cooling system (depending on engine use 3)	6.3.1
●				7)		6)				●		Engine oil (depending on engine use) 4) 6)	6.1.1
●				7)		6)				●		Oil filter cartridge (depending on oil change interval) 4) 6)	6.1.3
●						●				●		Fuel filter cartridge	6.2.1
				2)		●			●			Valve clearance (adjust if necessary)	6.6.1
●									●			Engine mounts (retighten if necessary)	9.2
●				●					●			V-belts (retension if necessary)	6.5
										●		Toothed belts 8) 10)	
								●	●			Injection valves	
						●				●		Fuel pump / strainer 5)	6.2.2
						●			●			Fuel leakage line (change defective lines) 11)	6.2.3

The specified engine maintenance times are maximum values. Depending on the operating environment, shorter maintenance intervals may be required. Please observe the operating instructions of the equipment manufacturer.

1) recommended maximum

2) once when commissioning new and reconditioned engines

3) clean if needed

4) Oil quality API-CF-4, CG-4, CH-4 or ACEA-E1-3/96 and E4-98

5) change if required

6) for oil change intervals, naturally aspirated engines, see Section 6.1.1

7) for oil change intervals, turbocharged engines, see Section 6.1.1

8) without toothed belt ventilation renew after 3000 running hours, after 5 years at the latest if running hours are not reached: in both cases together with idler pulley with toothed belt ventilation renew after 4500 running hours, after 5 years at the latest if running hours are not reached: in both cases together with idler pulley

9) during run-in period, check 2 x daily

10) retensioning of toothed belts is not permitted

11) Change at the latest after 2 years .

5.2 Maintenance Chart

Routine Maintenance

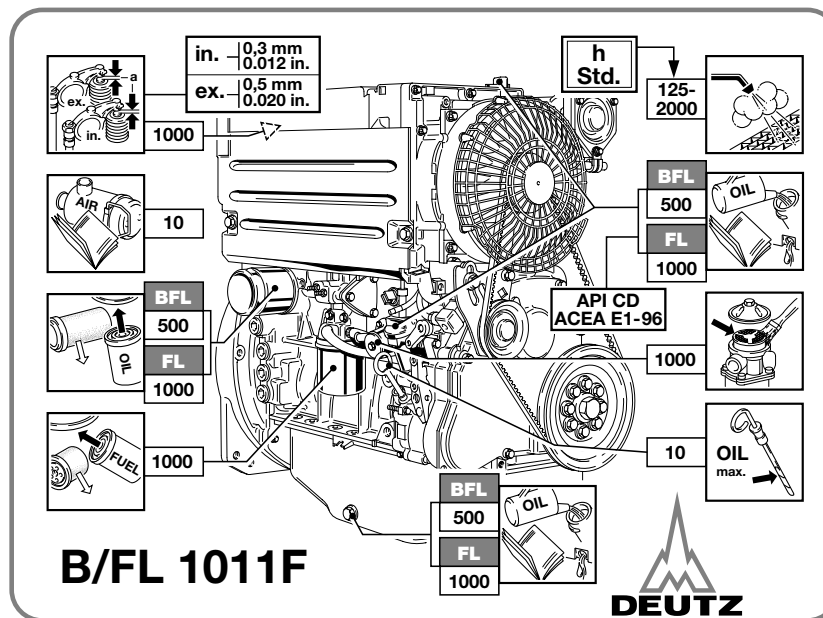
5

The maintenance chart shown here is supplied as a self-adhesive label with each engine. It should be affixed where it can be seen clearly on the engine or driven equipment.

Check that this is the case.

If necessary, ask your engine or equipment supplier for a fresh supply of labels.

Routine work should be carried out according to the schedule in 5.1.



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Stop the engine before carrying out any maintenance work.

Routine Maintenance

5.2 Maintenance Chart

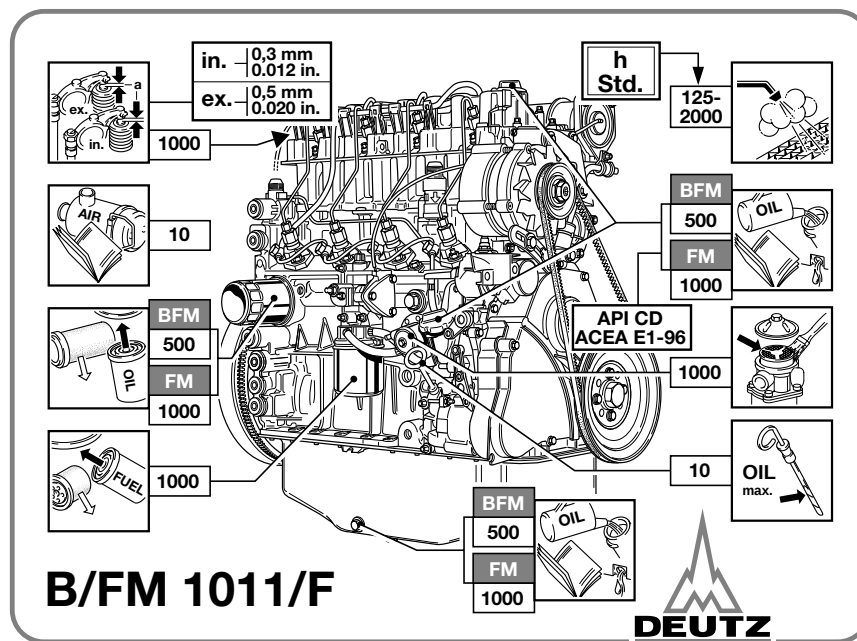
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The maintenance chart shown here is supplied as a self-adhesive label with each engine. It should be affixed where it can be seen clearly on the engine or driven equipment.

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If necessary, ask your engine or equipment supplier for a fresh supply of labels.

Routine work should be carried out according to the schedule in 5.1.



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Stop the engine before carrying out any maintenance work.

5.3 Completed Maintenance Jobs

Routine Maintenance

Hours	Date	Signaure / Stamp	Hours	Date	Signaure / Stamp
50-150*			-		
125			250		
375			500		
625			750		
875			1000		
1125			1250		
1375			1500		
1625			1750		
1875			2000		
2115			2250		
2375			2500		
2625			2750		
* Commissioning new and overhauled engines The maintenance jobs duly completed can be recorded in the above table.					

Routine Maintenance

5.3 Completed Maintenance Jobs

5

Hours.	Date	Signaure / Stamp	Hours	Date	Signaure / Stamp
2875			3000		
3125			3250		
3375			3500		
3625			3750		
3875			4000		
4125			4250		
4375			4500		
4625			4750		
4875			5000		
5125			5250		
5375			5500		
5625			5750		
The maintenance jobs duly completed can be recorded in the above table.					

5.3 Completed Maintenance Jobs

Routine Maintenance

Hours	Date	Signaure / Stamp	Hours	Date	Signaure / Stamp
5875			6000		
6125			6250		
6375			6500		
6625			6750		
6875			7000		
7125			7250		
7375			7500		
7625			7750		
7825			8000		
8125			8250		
8375			8500		
8625			8750		
The maintenance jobs duly completed can be recorded in the above table.					

