

Inspection and maintenance schedule

Customer:..... Machine type:..... Serial no.:..... Operating hours:..... Date:.....

Maintenance / inspection after service hours							Tasks to be performed				
On handover	All 8-10 h	All 50 h	All 500 h	All 1000 h	All 2000 h	Other intervals	Additional labelling	By maintenance staff	By authorised specialist staff	Confirm tasks	See page
								■ Once-only activity ● Repeat interval ✦ If necessary ✱ Annually before the winter	□ Once-only activity ○ Repeat interval ◇ If necessary		
								Additional labelling 👤 Assistance required ⚡ Have this task carried out exclusively by a certified electrician			
Complete machine											
	●	●	●	○	○			Check machine for proper condition and tightness.		✓	295
	●	●	●	○	○	✦		Lubricate bearings on machine and working attachment.		✓	295
			○	○	○	●250 h		Check components for cracks.		✓	296
			□			◇		Adjust machine as per adjustment checklist.			
				○	○			Analysis of engine oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.		✓	
			○	○	○			Analysis of biodegradable hydraulic oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.		✓	
				○	○			Analysis of mineral oil hydraulic oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.			
						◇		Optional fuel and operating fluid analyses: Exclusively recommended.			
Drive group											
□	●	●	○	○	○	✦		Diesel engine: Check oil level.		✓	299
			○	○	○			Diesel engine: Change oil (at least once a year).		✓	
			○	○	○	◇		Diesel engine: Replace oil filter. (additionally at every engine oil change)		✓	
			○	○	○	✦		Diesel engine: Bleed oil filter. (after every replacement of oil filter)		✓	301
				○	○			Diesel engine: Replace oil separator filter cartridge. (at least once a year)			
			○	○	○			Diesel engine: Check belt drive.		✓	
				○	○			Diesel engine: Replace belt.			
					○			Diesel engine: Check and adjust valve play.			
	●	●	○	○	○	✦		Fuel pre-filter: Drain water.		✓	302
		●	○	○	○	✦		Fuel tank: Drain water and sediments.		✓	303
			○	○	○	◇		Fuel pre-filter: Replace filter cartridge.		✓	
			○	○	○	◇		Fuel fine filter: Replace filter element.		✓	
						◇		Bleed fuel system.		✓	
		●	○	○	○	✦		Air filter: Empty dust collecting tank.		✓	304

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			○	○	○	✦		Air filter: Replace main filter cartridge (at least once a year).	✓	304	
					○		Air filter: Replace safety filter cartridge (at least once a year).				
□						✦	Diesel particulate filter (option): Activate and deactivate regeneration.				306
						○3000 h ◇	Diesel particulate filter (option): Replace filter module and send used filter module to authorised Liebherr service partner for cleaning.				
						○3500 h	Diesel exhaust fluid tank: Replace filter element. (at least every 2 years)				
		●	○	○	○	✦	Diesel exhaust fluid tank: Clean sieve.	✓			307
Cooling system											
□	●	●	○	○	○	✦	Check coolant level.	✓			309
					○	✱	Coolant: Check concentration (at least once a year).				310
						○6000 h	Cooling system: Change coolant (at least every 4 years).				
						◇	Grease cooling system.				
Working hydraulics											
□		●	○	○	○	✦	Hydraulic tank: Check oil level.	✓			315
			○	○	○	✦	Hydraulic tank: Drain water and sediments.	✓			317
						○3000 h ◇	Hydraulic tank: Change oil. (For more information see: 5.3.6 Hydraulic oils, page 267)				
					○		Hydraulic tank: Replace breather filter.				
			□	○	○	◇	Return filter: Replace filter cartridge (and at every hydraulic oil change of hydraulic tank). (For more information see: 5.3.6 Hydraulic oils, page 267)	✓			
			□	○	○	◇	Return leakage oil filter: Replace filter cartridge (additionally at every hydraulic oil change of hydraulic tank). (For more information see: 5.3.6 Hydraulic oils, page 267)	✓			
		●	○	○	○		Bypass filter (option): Checking level of contamination of filter cartridge.				318
					○	◇	Bypass filter (option): Replace filter cartridge. (For more information see: 5.3.6 Hydraulic oils, page 267)				
			○	○	○		Servo control unit: Replace filter cartridge.	✓			
			□	○	○		Hydraulic hammer return filter (option): Check contamination level, replace filter cartridge if necessary.				

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		●	○	○	○						
						◇		Hydraulic hoses: Check condition and tightness.		✓	318
								Replace hydraulic hoses.			
Electrical system											
			○	○	○			Check lighting of machine.		✓	
			○	○	○			Battery: Check acid density and acid level in battery cells.			
			○	○	○			Batteries: Checking and cleaning wire terminals and terminal posts.		✓	
			○	○	○			Batteries: Check condition and correct installation of degassing hoses.			
Travel gearbox											
			○	○	○			Travel gearbox: Check oil level and tightness.			
			□		○			If travelling proportion of machine is less than 20 %: Travel gearbox: Change oil (at least every 2 years).		✓	
			□	○	○			If travelling proportion of machine is greater than 20 % or in dust intensive applications: Travel gearbox: Change oil (at least every 2 years).			
Travel gear											
□	●	●	○	○	○			Checking track tension, tightening if required.		✓	321
		●	○	○	○			Track pads and sprocket wheels: Check mounting.		✓	
			○	○	○			Check tracks, sprocket wheels, idler-wheels, carrier rollers and track rollers for wear.		✓	
Working attachment											
	●	●	○	○	○			Lubricate working tool.		✓	325
		●	●	○	○			Check pin bearings for wear.		✓	325
						◇		Check overload warning system (option) in line with the regulations in force in the country of machine operation.			
Operator's cab, heating and air conditioning											
			○	○	○	✦		Fill with windscreen washer fluid.			327
						❄		Heating: Check function.			327
				○	○	❄		Auxiliary heater (option): Check function.			329
		●	○	○	○			Switching on air conditioning unit.		✓	330
		●	○	○	○			Clean pre-filter.		✓	330

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				○	○			Replace filter cassette (shorten interval accordingly in dust intensive application).			
			○	○	○			Checking and cleaning condenser.		✓	
Lubrication system											
□		●	○	○	○	✦		Lubrication system (option): Top up grease.		✓	332
		●	○	○	○			Check lubrication of bearings (grease collar).		✓	332
						◇		Checking function of entire system, pumps and control (at least once a year).			
Slewing gearbox and slewing ring											
		●	○	○	○			Slewing gearbox: Check oil level.		✓	333
			□		○			Slewing gearbox: Change oil.		✓	
				○	○			Slewing gear brake: Check function.			
			○	○	○			Slewing gear: Check condition and tightness of components of permanent lubrication.		✓	