Customer: Mach	ine type:	Sprial no (	Operating hours:	Data:

Maintenance / inspection after service hours								Tasks to be performed				
On handover	8-10 h	All 50 h	500 h	All 1000 h	All 2000 h	Other intervals	Additional labelling	By maintenance staff  Once-only activity  Repeat interval  If necessary  Additional labelling  Have this task carried out exclusively by a	Confirm tasks	page		
O	Ĭ	Ŧ	¥	Ħ	¥	₽	Ago	certified electrician	ပိ	See		
			_	_	_			Complete machine				
	•	•	0	0	0			Check machine for proper condition and tightness.	✓	299		
	•	•	0	0	0	+		Lubricate bearings on machine and working attachment.	✓	299		
			0	0	0	●250 h		Check components for cracks.	✓	300		
						<b></b>		Adjust machine as per adjustment checklist.				
				0	0			Analysis of engine oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.	<b>✓</b>			
			0	0	0			Analysis of biodegradable hydraulic oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.	<b>✓</b>			
				0	0			Analysis of mineral oil hydraulic oil: Generally recommended (at least every 2 years); mandatory if a service agreement, additional warranty or powerline warranty exists.	✓			
						<b></b>		Optional fuel and operating fluid analyses: Exclusively recommended.				
								Drive group				
	•	•	0	0	0	+		Diesel engine: Check oil level.	<b>√</b>	303		
			0	0	0			<b>Diesel engine stage V or Tier 4f:</b> Change oil (at least once a year, or according to engine oil quality and complicating circumstances).	✓			
						<b></b>		Diesel engine: Replace oil filter. (at least during every engine oil change)				
			0	0	0	+		Diesel engine: Bleed oil filter. (after every replacement of oil filter)	<b>√</b>	305		
				0	0			Diesel engine: Replace oil separator filter cartridge. (at least once a year)	<b>✓</b>	_		
			0	0	0			Diesel engine: Check belt drive.	<b>√</b>			
				0	0			Diesel engine: Replace belt.	✓			
					0			Diesel engine: Check and adjust valve play.				
	•	•	0	0	0	+		Fuel pre-filter: Drain water.	<b>√</b>	306		
		•	0	0	0	+		Fuel tank: Drain water and sediments.	<b>√</b>	307		
			0	0	0	<b></b>		Fuel pre-filter: Replace filter cartridge.	<b>√</b>			
			O	0	0	<b></b>		Fuel fine filter: Replace filter element.	✓			
						<b></b>		Bleed fuel system.				

Maintenance / inspection after service hours						tion after	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  ■ Once-only activity  ■ Repeat interval  If necessary  Additional labelling  H Assistance required  F Have this task carried out exclusively by a certified electrician	Confirm tasks	See page	
		•	0	0	0	+		Air filter: Empty dust collecting tank.	<b>√</b>	308	
			0	0	0	+		Air filter: Replace main filter cartridge (at least once a year).		308	
					0			Air filter: Replace safety filter cartridge (at least once a year).			
						+		Diesel particulate filter (option): Activate and deactivate regeneration.		310	
						<b>○</b> 3000 h		Diesel particulate filter (option): Replace filter module and send used filter module to authorised Liebherr service partner for cleaning.			
						<b>○</b> 3500 h		Diesel exhaust fluid tank: Replace filter element. (at least every 2 years)			
		•	0	O	O	+		Diesel exhaust fluid tank: Clean sieve.	<b>√</b>	311	
								Cooling system			
	•	•	0	0	O	+		Check coolant level.	<b>√</b>	313	
					0	*		Coolant: Check concentration (at least once a year).		314	
						<b>O</b> 6000 h		Cooling system: Change coolant (at least every 4 years).			
						<b></b>		Grease cooling system.			
	-	•		-	-		•	Working hydraulics	•		
		•	0	0	O	+		Hydraulic tank: Check oil level.	<b>√</b>	319	
			0	0	0	+		Hydraulic tank: Drain water and sediments.	✓	321	
						<b>○</b> 3000 h		Hydraulic tank: Change oil. (For more information see: 5.3.6 Hydraulic oils, page 271)			
					0			Hydraulic tank: Replace breather filter.			
			0	0	0	<b></b>		Return filter: Check and clean magnetic rod.	✓		
				O	0	<b>*</b>		Return filter: Replace filter cartridge (and at every hydraulic oil change of hydraulic tank). (For more information see: 5.3.6 Hydraulic oils, page 271)	✓		
				0	0	<b></b>		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 271)	<b>√</b>		
		•	0	0				Bypass filter (option): Checking level of contamination of filter cartridge.	✓	322	
					0	<b>*</b>		Bypass filter (option): Replace filter cartridge. (For more information see: 5.3.6 Hydraulic oils, page 271)			
			0	0	O			Servo control unit: Replace filter cartridge.	✓		

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  □ Once-only activity  □ Repeat interval  □ In necessary  □ Annually before the winter  Additional labelling  ††† Assistance required  f Have this task carried out exclusively by a	Confirm tasks	See page
Ŏ	₹	A		₹  O	\ <u>₹</u>	5	₹	certified electrician  Hydraulic hammer return filter (option): Check contamination level,	ŏ	Š
				Ĺ	Ĺ			replace filter cartridge if necessary.		
	→ Replace hydraulic hoses.									
								Electrical system		
			0	0	0			Check lighting of machine.	✓	
			0	0	0			Battery: Check acid density and acid level in battery cells.	✓	
			0	0	O			Batteries: Checking and cleaning wire terminals and terminal posts.	<b>√</b>	
			0	0	0			Batteries: Check condition and correct installation of degassing hoses.	<b>√</b>	
								Travel gearbox		
			0	0	0			Travel gearbox: Check oil level and tightness.	✓	
					0			If travelling proportion of machine is less than 20 %: Travel gearbox: Change oil (at least every 2 years).		
				0	0			If travelling proportion of machine is greater than 20 % or in dust intensive applications: Travel gearbox: Change oil (at least every 2 years).	<b>√</b>	
				0	0			Travel motor and travel gearbox: Check mounting.	1	
	!			!	!			Travel gear		-
	•	•	O	0	O			Checking track tension, tightening if required.	1	324
		•	0	0	0			Track pads and sprocket wheels: Check mounting.	1	
			0	0	0			Check tracks, sprocket wheels, idler-wheels, carrier rollers and track rollers for wear.	<b>√</b>	
	•						,	Working attachment		
	•	•	O	0	0			Lubricate working tool.		328
Г		•	0	0	0			Check pin bearings for wear.	1	328
						<b></b>		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		
			0	0	0	+		Fill with windscreen washer fluid.		330
						*		Heating: Check function.	<b>√</b>	330
				0	0	*		Auxiliary heater (option): Check function.	1	332
		•	0	0	0			Switching on air conditioning unit.	✓	333
_			_							

Customer:	.Machine t	tyne.	Serial no.:	.Operating	i hours:	Date:
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Maintenance / inspection after service hours						tion a	after	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  ■ Once-only activity  ● Repeat interval  → If necessary  → Annually before the winter  Additional labelling  ††† Assistance required  → Have this task carried out exclusively by a certified electrician		See page
		•	0	0	0				Clean pre-filter.	<b>√</b>	333
				O	0				Replace filter cassette (shorten interval accordingly in dust intensive application).	<b>√</b>	
			0	0	0				Checking and cleaning condenser.	<b>√</b>	
							<b></b>		Check cold output after starting air conditioning unit or after repair.		
									Lubrication system		
		•	0	0	0		+		Lubrication system (option): Top up grease.		335
		•	0	0	0				Check lubrication of bearings (grease collar).	<b>√</b>	335
									Slewing gearbox and slewing ring		
		•	0	0	0				Slewing gearbox: Check oil level.	<b>√</b>	336
					0				Slewing gearbox: Change oil.	<b>√</b>	
				0	0				Slewing gear brake: Check function.	<b>√</b>	
			0	0	0				Slewing ring: Check screwed connections.	<b>√</b>	
			O	O	0				Slewing gear: Check condition and tightness of components of permanent lubrication.	<b>√</b>	