OMPC30006225

Operation & Maintenance Manual

PC3000-1

HYDRAULIC MINING SHOVEL

SERIAL NUMBERS PC3000-1 6225

July 2006

KOMATSU®

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PERIODIC SERVICING SCHEDULE

Service Intervals (in hours of operation) Every: 10	50	250	500	1000	2000	3000	„X"	Item No.	Point of Service	Service	Remarks
x								1	Excavator	Visual inspection	
x								2	Engine (1)	Maintenance	
x								3 *)	Attachment	Lubricate	
x								4 *)	Slewing connection	Lubricate	
x								5	Engine Air cleaner	Clean pre-cleaner	
x								6	—	—	
x								7	Radiators	Check coolant level	
x								8	Track groups	Clean, esp. in winter	
x								9	Fuel system, water separator	Drain condensator	
	x							10	Slew gear, brake housing and motor adapter housing	Check oil levels	
	x							11	Travel gear housings: • Planetary gear box • Spur gear box • Brake- and motor adapter housing	Check oil levels	
	x							12	Pump distributor gears and all pump adapter housing	Check oil levels	
	x							13	Radiator and hydraulic oil coolers	Check and clean as necessary	
	x							14	Air conditioning	Maintenance according to the Manufacturers Instructions.	
	x							15	Engines (1)	Maintenance	
		x						50	Engine (1)	Maintenance	
		x						51	Drive belts	Check tension	
		x						53	—	—	
		x						54			
		x						55	Oil cooler fan bearings	Lubricate	
		x						56	Slew gear pinion bearings	Lubricate	
		x						57	—	—	
		x						58	Signal horn compressor	Lubricate	
		x						59	Automatic lube system	Clean grease screen	
		x						60	Cab, air filter	Clean or replace	
		x						61	Air conditioning	Inspection, refer to manufacturers manual	
		x						62	—	—	
		x						63	Refrigerant compressors	Check V-belt tension.	
			x					70	Engines (1)	Maintenance	
			x					71	Batteries	Check fluid level	
			x					72	Fuel tank	Drain condensattion	
			x					73	Flexible couplings	Check oil level	
			x					74	Track groups	Check the gap between sprocket and track pad tooth	
			x					75	Crawler tracks	Check adjusting range of guide wheels	
			x					76	Undercarriage pin connections	Lubricate	
		x (F)		x				80	High strength bolt connections	Check torque load	
								81	Engine (1)	Maintenance	
		x (F)		x				82	Hydraulic system	• Replace return and pressure filter elements • Clean or replace high pressure filter elements • Replace breather filter elements • Drain sediments	
								83	Pump distributor gears, Slew gears & Travel gears	Oil sample analysis	
				x				84	Signal horn compressor	Clean and lubricate	
				x				85	—	—	
				x				86	Air conditioning	Have the complete system inspected through authorized Service Personnel	
					x			100	Hydraulic system	• Change oil (2) • Replace suction strainer	
					x			101	Engines (1)	Maintenance	
					x			102	—	—	
					x			103	—	—	
					x			104	—	—	
					x			105	Emergency rope-ladder	Inspect	
		x (F)				x		110	Travel gears: • Planetary gear box • Spur gear box • Brake housing • Motor adapter housing	Change oil	
		x (F)				x		111	Slew gear: • Slew gear • Brake housing • Motor adapter housing	Change oil	
		x (F)				x		112	Pump distributor gear	Change oil	
		x (F)				x		113	Hydraulic track tensioning system	Check pressure accumulators	
							x	120	Engine air cleaners	Maintenance	
							x	121	—	—	
							x	122	Slew gear ring	Immediately apply grease if bare sports are visible	
							x	123	Lubrication systems	• Replace or fill grease containers • Clean or replace filter elements	
							x	124	Track rollers	If leakage occurs replace oil seals and fill with GL SAE 90 EP	
							x	125	Carrier rollers	If leakage occurs replace oil seals and fill with GL SAE 90 EP	
							x	126	Guide wheels	If leakage occurs replace oil seals and fill with GL SAE 90 EP	
							x	127	—	—	
							x	128	Hydraulic system	Service the oil filter units according to ETM display	
							x	129	Cold starting aid (1)	Replace fluid cartridge	
							x	130	Electrical system	Check circuit breakers and fuses.	

„X" When necessary *) On machines without „CENTRAL LUBRICATING SYSTEM". (F) Initial service
(1) Perform maintenance according to separate ENGINE MANUAL. (2) Perform inspection according to separate manual „FIRE DETECTION AND ACTUATION SYSTEM.
(3) Perform inspection according to separate manual „FIRE SUPPRESSION SYSTEM".
(4) The hydraulic oil change intervals can be extended for a further time period, when an oil sample analysis shows a positive result.
However, it is recommended to change the hydraulic oil after 6000 operating hours at the latest.

- Intervals of time between services are based on average operating conditions. Under unusually severe conditions of operation, reduce the interval of time between services.
- Perform all Lubrication and Maintenance work according to the Lubrication and Maintenance Manual.
The „Item Nos." in the above chart correspond to the numbering of the respective item in the LUBRICATION AND MAINTENANCE MANUAL.

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