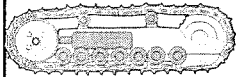




Komatsu Undercarriage Inspection

Customer name:

Address:



Model	PC220LC-6	Serial #	53357	Equip #	U-2337
Location		SMR	8653		
Soil condition		Dealer	KLC		
Working condition		Inspector	Edwin Chamorro		

Work Order NO	
Wet, AR, HD or Dry	*Dry
Shoe width (mm)	700
Shoe type	TRIPLE
Wear type	NORMAL

Insp. Date (YY/MM/DD) 07/26/2005

			New	100% Wear	Measure mm	Wear %	SMR		Hours on Parts :	Comments/Observations:	
							New	Rebuilt			
LINK PITCH 	R	LH	761.0	777.0	820.0	272.9%			8653		
		RH	761.0	777.0	820.0	272.9%			8653		
	M	LH	190.25	194.25	233.00	618.6%			8653		
		RH	190.25	194.25	233.00	618.6%			8653		
I LINK 		LH	28.5	20.5	25.1	51.8%			8653		
		RH	28.5	20.5	25.1	51.8%			8653		
BUSHING O.D. 		LH	10.4	5.4	8.2	66.3%	New	Turned	8653		
		RH	10.4	5.4	8.2	66.3%	New	Turned	8653		
GRABBER 		LH	36.0	26.0	33.9	21.0%			8653		
		RH	36.0	26.0	33.9	21.0%			8653		
CARRIER ROLLER 	Front	LH	29.8	24.8	25.9	82.6%			8653		
		RH	29.8	24.8	25.9	82.6%			8653		
	Rear	LH	29.8	24.8	25.9	82.6%			8653		
		RH	29.8	24.8	25.9	82.6%			8653		
IDLER 	Front	LH	30.7	24.7	29.7	25.2%			8653		
		RH	30.7	24.7	29.7	25.2%			8653		
	Rear	LH	30.7	24.7							
		RH	30.7	24.7							
TRACK ROLLER 	LH	1	44.5	38.5	44.3	7.3%			8653		
		2	44.5	38.5	41.3	61.7%			8653		
		3	44.5	38.5	42.1	49.4%			8653		
		4	44.5	38.5	42.0	51.0%			8653		
		5	44.5	38.5	42.7	39.6%			8653		
		6	44.5	38.5	41.3	61.7%			8653		
		7	44.5	38.5	41.4	60.2%			8653		
		8	44.5	38.5	44.4	4.3%			8653		
		9	44.5	38.5							
		10	44.5	38.5							
	RH	1	44.5	38.5	42.7	39.6%			8653		
		2	44.5	38.5	41.3	61.7%			8653		
		3	44.5	38.5	41.4	60.2%			8653		
		4	44.5	38.5	44.4	4.3%			8653		
		5	44.5	38.5	42.0	51.0%			8653		
		6	44.5	38.5	42.1	49.4%			8653		
		7	44.5	38.5	41.3	61.7%			8653		
		8	44.5	38.5	44.3	7.3%			8653		
		9	44.5	38.5							
		10	44.5	38.5							
SPROCKET 	LH	55.1	49.1								
	RH	55.1	49.1								

Remarks:

KOMATSU

PC200/210/220/250-6 S/N: A830001 & up
 TESTING & ADJUSTMENT PROCEDURE

8653 hrs.

Use the following procedure as a supplement to the Shop Manual when testing & adjusting the Komatsu PC200/210/220/250-6 machines serial number A830001 & higher.

Always ensure that all Service Codes and Controller Input & Output signals are normal before continuing with this procedure. See the "Details of Troubleshooting and Troubleshooting Procedure" section in the Shop manual for instructions on checking the inputs and outputs. Follow this procedure in order from 1-9 because skipping one step will affect the measurements in the following steps.

- 1) Warm the machine up to operating temperature, and record all of the following Engine Speeds using the machine monitor panel code 10. Compare these with the specified values. Adjust the engine speed if necessary.

Measurement conditions	Actual Value	After Adjusting	Standard Value PC200LC-6	Standard Value PC220/250LC-6
a. High Idle, H/O mode	2180		1930 - 2070	2130 - 2270
b. High Idle, H/O, Traveling			2130 - 2270	2270 - 2370
c. Low Idle	1000		920 - 1020	920 - 1020
d. Arm Relief, H/O	2040		1850 - 2050	2050 - 2250
e. Arm Relief, H/O + P/Max			1900 - 2100	2000 - 2200
f. Arm Relief, H/O+ Active			1650 - 1850	1940 - 2140
g. RH Track Relief, H/O			?	?
h. LH Track Relief, H/O			?	?

- 2) Measure and record all of the Cycle Times listed below. See the Shop Manual for procedural details.

Measurement conditions	Actual Values seconds	After Adjusting	Standard Value PC200LC-6	Standard Value PC220LC(250LC)-6
H/O mode, High Idle				
Boom Raise	3.9		3.6 - 4.4	3.5 - 4.3
Arm In	3.8		3.2 - 4.0	3.4 - 4.2
Arm Out	3.5		2.6 - 3.2	2.8 - 3.4
Bucket Curl	3.0		2.4 - 3.2	2.5 - 3.3
Bucket Dump	2.5		1.8 - 2.4	1.9 - 2.5
LH Swing, 5 turns	25.0		20.5 - 27.5	20.5 - 27.5
RH Swing, 5 turns	26.2		20.5 - 27.5	20.5 - 27.5
LH Travel, Hi, 5 turns	28.2		27.5 - 32.5	28.5 - 33.5 (*)
LH Travel, Mi, 5 turns	43.8		34.0 - 45.0	36.0 - 47.0 (*)
LH Travel, Lo, 5 turns	52.5		46.5 - 62.5	48.5 - 64.5 (*)
RH Travel, Hi, 5 turns	28.2		27.5 - 32.5	28.5 - 33.5 (*)
RH Travel, Mi, 5 turns	44.2		34.0 - 45.0	36.0 - 47.0 (*)
RH Travel, Lo, 5 turns	53.2		46.5 - 62.5	48.5 - 64.5 (*)

* Note: PC250LC-6 travel cycle times will be released at a later date.
 NOTE :

3) Measure the Self Reducing valve output pressure at the EPC solenoid block.
Standard Value is 31 - 35 kg/cm². Adjust if necessary.

4) Measure the Main Relief and Unload valve pressures using the machine monitor panel codes 11 & 12.
Compare with the standard values listed below, and adjust if necessary.

Item	Measurement conditions	Front pump (code 11)	Rear pump (code 12)	standard value kg/cm ²
Unload Pressure	H/O, Hi Idle, Neutral	35		30 - 50
Boom Up	H/O, Hi Idle, Relief (PMax)	331		315-335 (345-370)
Arm In	H/O, Hi Idle, Relief (PMax)	331		315-335 (345-370)
Arm Out	H/O, Hi Idle, Relief (PMax)	331		315-335 (345-370)
Bucket Dump	H/O, Hi Idle, Relief (PMax)	331		315-335 (345-370)
Bucket Curl	H/O, Hi Idle, Relief (PMax)	331		315-335 (345-370)
Swing Left	H/O, Hi Idle, Swing Lock, Relief	328		305 - 330
Swing Right	H/O, Hi Idle, Swing Lock, Relief	328		305 - 330
Travel Left	H/O, Hi Idle, Relief		Unload Pres	345 - 370
Travel Right	H/O, Hi Idle, Relief	Unload Pres		345 - 370

5) Measure the TVC valve output pressure (Servo Input Pressure), and compare with the main pressure at the same time. (This test verifies that the LS circuit, LS valve, and the TVC valve are working properly.)

Measurement Conditions	Front Pump Servo Input	Front Pump Main Pressure	Rear Pump Servo Input	Rear Pump Main Pressure	Standard Value Servo vs. Main
Neutral					Almost the same
Arm Relief					?
Arm Relief + Pmax					? Servo 1/2 of main
LH Travel, Hi, half stroke			Unload Pressure	Unload pressure	? Servo 1/2 of main
RH Travel, Hi, half stroke	Unload Pressure	Unload Pressure			? Servo 1/2 of main

6) Measure the LS Differential pressure using the tracks. Adjust if the Difference between the Load Sense pressure and the Main pressure is outside the standard value while rotating the raised track in Hi travel speed at half stroke.

Measurement conditions	Actual Value	Standard Value
H/O, Hi Idle, Neutral, Front Pump		30 - 50 kg/cm ²
H/O, Hi Idle, Hi Travel speed, Left Track rotating at half stroke, Front Pump		21 - 23 kg/cm ²
H/O, Hi Idle, Neutral, Rear Pump		30 - 50 kg/cm ²
H/O, Hi Idle, Hi Travel speed, Right Track rotating at half stroke, Rear Pump		21 - 23 kg/cm ²