

Shop Manual



WHEEL LOADER

WA500-7

Serial Numbers

10001 and up

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Model	Serial Number
WA500-7	10001 and up

20 Standard value tables

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Standard service value table (ALL-A000-001-K-00-A)

Standard value table for engine (WA500_7-A000-033-K-00-A)

Machine model			WA500-7		
Engine			SAA6D140E-6		
Category	Measurement condition		Unit	Standard value for new machine	Repair limit
Engine speed	<ul style="list-style-type: none"> Engine coolant temperature: Within operating range Hydraulic oil temperature: Within operating range Torque converter oil temperature: Within operating range 	High idle (E-mode)	rpm	2,010 ± 50	2,010 ± 50
		High idle (P-mode)		2,120 ± 50	2,120 ± 50
		Low idle		790 ± 25	790 ± 25
		Min. low idle (*1)		700 ± 25	700 ± 25
Boost pressure (aftercooler inlet)	<ul style="list-style-type: none"> Engine coolant temperature: Within operating range Hydraulic oil temperature: Within operating range Torque converter oil temperature: Within operating range With torque converter stalled 		kPa (mmHg)	Min. 118 {Min. 890}	Min. 105 {Min. 790}
Exhaust gas temperature (turbocharger outlet temperature)	Whole speed range (Ambient temperature: 20°C)		°C	Max. 670	Max. 700
Exhaust gas color	<ul style="list-style-type: none"> Engine coolant temperature: Within operating range With torque converter stalled After kept for 5 seconds at normal condition 	Engine outlet (between turbocharger and KDPF inlet)	Bosch index	—	Max. 3.0
		KDPF outlet (exhaust pipe outlet)		—	Max. 0.5
Valve clearance	When engine is cold	Intake valve	mm	0.35 ± 0.02	—
		Exhaust valve		0.57 ± 0.02	—
Compression pressure	<ul style="list-style-type: none"> Engine oil temperature: 40 to 60°C Engine speed: 200 to 280 rpm 		MPa {kg/cm ² }	Min. 4.1 {Min. 42}	Min. 2.8 {Min. 29}
Blowby pressure	<ul style="list-style-type: none"> Engine coolant temperature: Within operating range Hydraulic oil temperature: Within operating range Torque converter oil temperature: Within operating range With torque converter stalled KCCV circuit disconnected 		kPa (mmH ₂ O)	Max. 2.94 {Max. 300}	Max. 3.92 {Max. 400}
Engine oil pressure	<ul style="list-style-type: none"> Engine oil temperature: Min. 80°C SAE5W-30LA SAE5W-40LA SAE10W-30LA SAE15W-40LA 	With torque converter stalled	MPa {kg/cm ² }	Min. 0.34 {Min. 3.5}	Min. 0.21 {Min. 2.1}
		At low idle		Min. 0.10 {Min. 1.0}	Min. 0.08 {Min. 0.8}

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