SEBM05690507

SHOP MANUAL

KOMATSU®

HD465-5

MACHINE MODEL	SERIAL NUMBER
HD465-5	**4001 and up**

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

- HD465-5 mount the SA6D170-1 or SAA6D170-2 engine.
  For details of the engine, see the 6D170-1 or 6D170-2 Series Engine Shop Manual.

MidWestTech | Komatsu HD465-5 Dump Truck Service Manual | Publication SEBM05690507

Order the manual at mid-west-tech.com >

Machine model				HD465-5	
				With standard tires (21.00-35)	With large-size tires (24.00-35)
Serial No.				4001 – 4406	
Hydraulic system	Hydraulic pump	For both steering and work equipment			
		Type		Gear pump	
		Delivery (At engine rated speed 2,100rpm)	ℓ/mm	384	
		For charging torque converter			
		Type		Gear pump	
		Delivery	ℓ/mm	241	
		For brake cooling			
		Type		Gear pump	
		Delivery	ℓ/mm	626	
	Cylinder	Hoist cylinder			
		Type		2-stage piston type (only 2nd stage double-acting)	
		No. – bore (1st - 2nd) × stroke		2 – (170mm – 150mm) × 1,794mm	
		Steering cylinder			
		Type		Piston type, double acting	
		No. – bore × stroke		2 – 85mm × 410mm	

056905

MidWestTech | Komatsu HD465-5 Dump Truck Service Manual | Publication SEBM05... Order the manual at mid-west-tech.com >

Machine model				HD465-5	
				With standard tires (21.00-35)	With large-size tires (24.00-35)
Serial No.				4407 and up	
Weight	Empty		kg	39,900	41,100
	Rated load		kg	46,000	46,000
	Gross		kg	85,975	87,175
	Weight distribution: Empty	(front)	kg	18,755 (47%)	19,155 (47%)
		(rear)	kg	21,145 (53%)	21,945 (53%)
	Weight distribution: Gross	(front)	kg	27,510 (32%)	27,895 (32%)
		(rear)	kg	58,465 (68%)	59,280 (68%)
Performance	Dump body capacity	Struck	m^3	25	25
		Heaped (2:1)	m^3	34.2	34.2
	Max. travel speed		km/h	66	70
	Gradeability (sin θ)		%	37	37
	Min. turning radius		m	8.5	8.5
	Dumping angle		°	48	48
Dimension	Overall length		mm	9,355	9,355
	Overall width		mm	4,220	4,600
	Overall height		mm	4,350	4,430
	Wheel base		mm	4,300	4,300
	Tread	Front wheel	mm	3,565	3,515
		Rear wheel	mm	2,900	3,080
	Ground clearance		mm	540	610
Engine	Model			Komatsu SAA6D170-2	
	Type			4-cycle, water-cooled, in-line 6-cylinder, direct injection, with turbocharger and after-cooler	
	No. of cylinders – Bore × stroke		mm	6 – 170 × 170	
	Piston displacement		ℓ (cc)	23.15 (23,150)	
	Rated output		kW/rpm (HP/rpm)	533/2,100 (715/2,100)	
	Max. torque		Nm/rpm (kgm/rpm)	3,010/1,500 (307/1,500)	
	Fuel consumption (Min.)		g/kW h (g/HP h)	204 (152)	
	Starting motor			24V, 7.5kW × 2 units	
	Alternator			24V, 50A	
	Battery			12V, 200Ah × 2 units	

056905

MidWestTech | Komatsu HD465-5 Dump Truck Service Manual | Publication SEBM05... Order the manual at mid-west-tech.com >

Machine model				HD465-5	
				With standard tires (21.00-35)	With large-size tires (24.00-35)
Serial No.				4407 and up	
Power train	Torque converter	Type		TCA50-16A	
		Structure		3-element, 1-stage, 2-phase	
		Lock-up clutch		Hydraulically actuated, wet-type, multiple-disk clutch	
	Transmission	Type		TORQFLOW planetary gear (Fully automatic, electrically-hydraulically actuated, forced-feed type pump)	
		No. of speeds		F7, R1	
	Reduction gear	Type		Spiral bevel gear, splash lubrication	
		Reduction ratio		3.267	
		Differential type		Straight bevel tear, splash lubrication	
	Final drive	Type		Planetary gear, splash lubrication	
		Reduction ratio		5.143	
Steering system	Type			Fully hydraulic steering system	
Suspension	Axle type	Front axle		Independent suspension (Mac Pherson type)	
		Rear axle		Full floating	
	Suspension method	Front axle		Hydropneumatic	
		Rear axle		Hydropneumatic	
Tires	Size and No.	Front tire		21.00 – 35 – 32PR × 2	24.00 – 35 – 36PR × 2
		Rear tire		21.00 – 35 – 32PR × 4	24.00 – 35 – 36PR × 4
	Tire pressure	Front and rear tires	kPa (kg/cm²)	490 (5.0)	441 (4.5)
Brake system	Service brake	Front tire		Air over hydraulic, caliper disc type	
		Rear tire		Air over hydraulic, oil-cooled, multiple disc brake	
	Parking brake			Spring-loaded, caliper disc type	
	Retarder			Air over hydraulic, oil-cooled multiple disc brake	

056905

MidWestTech | Komatsu HD465-5 Dump Truck Service Manual | Publication SEBM05... Order the manual at mid-west-tech.com >

INSIDE CAB (2/3)

Serial No. : 4282 – 4406



MidWestTech | Komatsu HD465-5 Dump Truck Service Manual | Publication SEBM05690507
Order the manual at mid-west-tech.com >