

Komatsu diesel engine SAA6D170E-3

Type..... Water-cooled, 4-cycle
 Aspiration..... Turbocharged, aftercooled
 No.of cylinders..... 6
 Bore x stroke..... 170mm x 170mm 6.69" x 6.69"
 Piston displacement..... 23.15 ltr. 1,413 cu.in
 Fuel system Direct injection
 Governor..... Electronic, all-speed control
 Lubrication system:
 Lubrication method Gear pump, pressurized lubrication
 Filter..... Full-flow type
 Air cleaner..... Dry type with automatic dust ejector and precleaner plus dust indicator

Specifications

Engine model		SA6D170E-3	SAA6D170E-3
Applicable machine		D375A-3	WA600-3
Number of cylinder – Bore x Stroke		mm	6 – 170 x 170
Piston displacement		ℓ {cc}	23.2 {23,150}
Firing order			1 – 5 – 3 – 6 – 2 – 4
Dimensions	Overall length	mm	2,244
	Overall width	mm	885
	Overall height (excluding exhaust pipe)	mm	1,920
	Overall height (including exhaust pipe)	mm	
Performance	Flyweel horsepower	kW {HP}/rpm	337 {452}/2,000 (Net)
	Maximum torque	Nm {kgm}/rpm	2,120 {216}/1,400 (Net)
	High idling speed	rpm	20.2 2,170 ± 30
	Low idling speed	rpm	33.0 700 ± 25
	Minimum fuel consumption ratio	g/kW•h{g/HP•h}	7.5 221 {165}
Dry weight		kg	2,900
Fuel pump			Trochoid gear pump (KOMATSU HPI system)
Governor			Electronic control type
Lubricating oil amount (refill capacity)		ℓ	64 (60)
Coolant amount		ℓ	(Engine side: 47)
Alternator			24V, 75A
Starting motor			24V, 7.5kW x 2
Battery			12V, 200Ah x 2
Turbocharger			KOMATSU KTR110L type
Air compressor			—
Others		With aftercooler	With air cooled after cooler