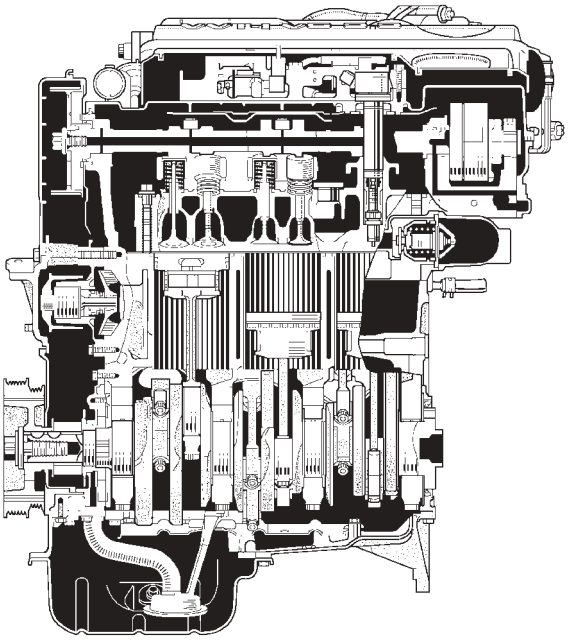
ENGINE

3MZ-FE ENGINE

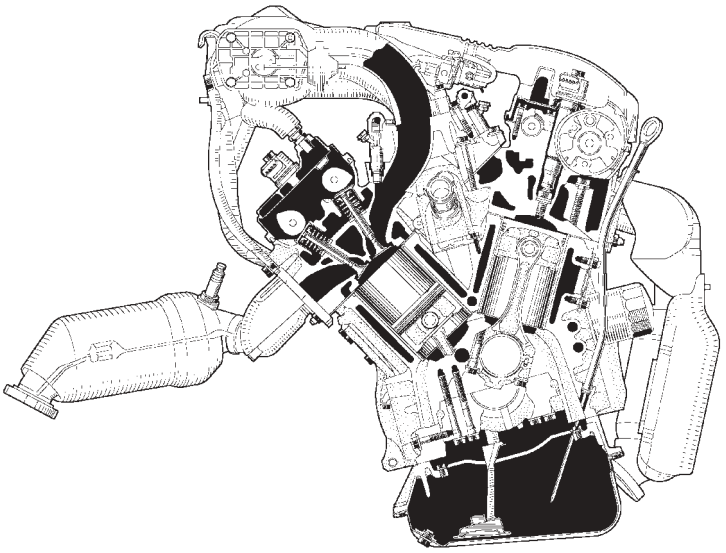
■ DESCRIPTION

The 3MZ-FE engine on the new Kluger is a newly developed V6, 3.3-liter, 24-valve DOHC engine.

The VVT-i (Variable Valve Timing-intelligent) system, ACIS (Acoustic Control Induction System), and the ETCS-i (Electronic Throttle Control System-intelligent) are used.



257HL52



241EG02

▶ Engine Specifications ◀

Engine Type			3MZ-FE
No. of Cyls. & Arrangement			6-Cylinder, V Type
Valve Mechanism			24-Valve DOHC, Belt & Gear Drive (with VVT-i)
Combustion Chamber			Pentroof Type
Manifolds			Cross-Flow
Fuel System			EFI
Displacement cm^3 (cu. in.)			3311 (202.1)
Bore x Stroke mm (in.)			92.0 x 83.0 (3.62 x 3.27)
Compression Ratio			10.8 : 1
Max. Output (SAE-NET)			172 kW @ 5600 rpm
Max. Torque (SAE-NET)			328 N·m @ 3600 rpm
Valve Timing	Intake	Open	–4° – 56° BTDC
		Close	60° – 0° ABDC
	Exhaust	Open	54° BBDC
		Close	2° ATDC
Firing Order			1-2-3-4-5-6
Research Octane Number			95 or higher
Engine Service Mass* (Reference) kg (lb)			160 (352)
Oil Grade			API SJ, SL, EC or ILSAC
Tailpipe Emission Regulation			European STEP II
Evaporative Emission Regulation			European STEP II

*: Weight shows the figure with the oil and engine coolant fully filled.

▶ Valve Timing ◀

