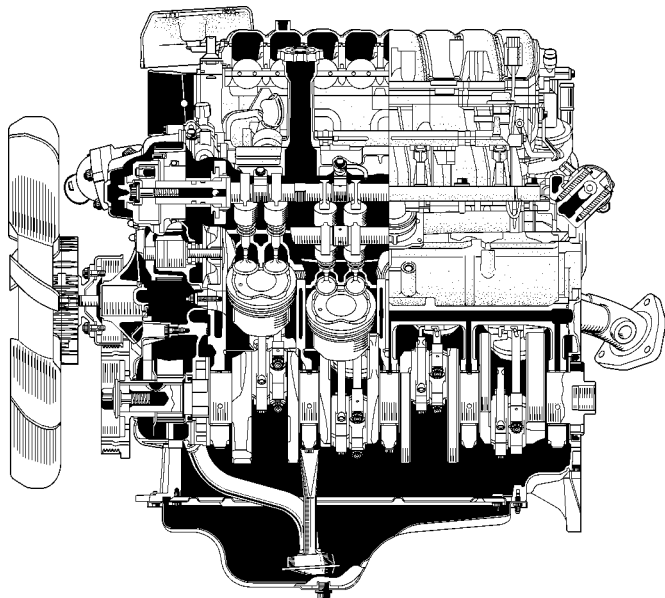


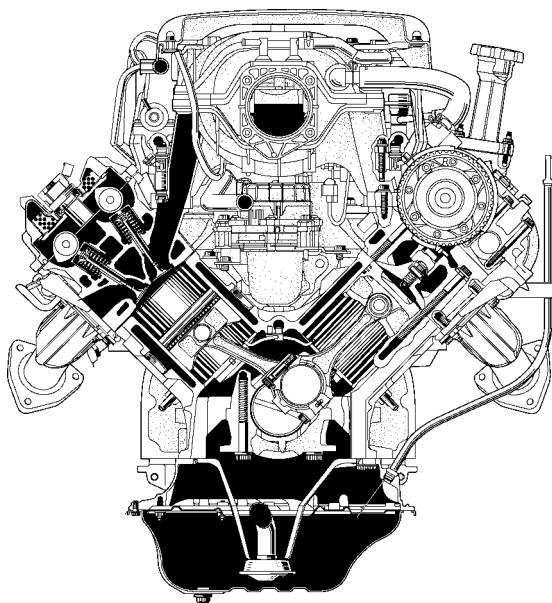
■ 2UZ-FE ENGINE

1. General

The 2UZ-FE engine is a V8, 4.7-liter, 32-valve DOHC engine. This engine is added the VVT-i (Variable Valve Timing-intelligent), ACIS (Acoustic Control Induction System), and AI (Air Injection) system to achieve high performance and reduce exhaust emissions. For details, see the major difference on page 146.



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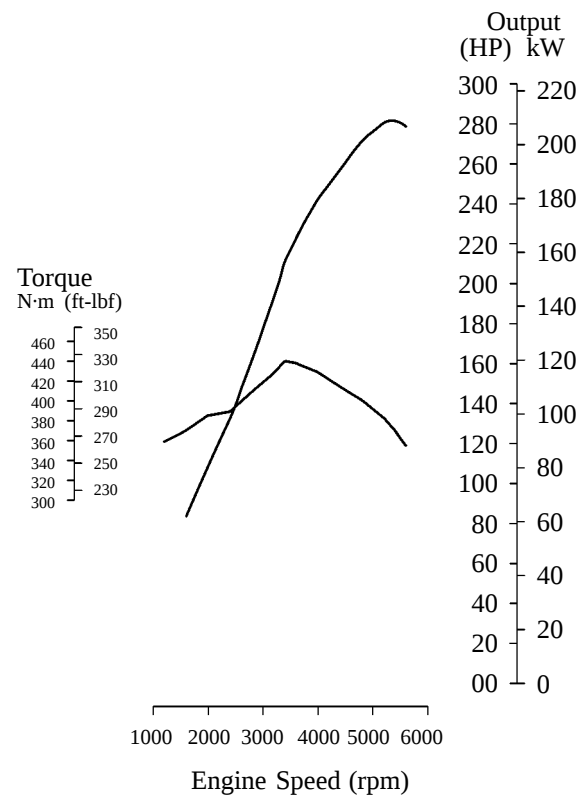
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► Engine Specifications ◀

Model			'05 Toyota Tundra	'04 Toyota Tundra
Engine Type			2UZ-FE	←
No. of Cyls. & Arrangement			8-Cylinder, V Type	←
Valve Mechanism			32-Valve DOHC, Belt & Gear Drive (with VVT-i)	32-Valve DOHC, Belt & Gear Drive (without VVT-i)
Combination Chamber			Pentroof Type	←
Manifolds			Cross-Flow	←
Fuel System			SFI	←
Displacement	cm ³ (cu. in.)		4664 (284.5)	←
Bore × Stroke	mm (in.)		94.0 × 84.0 (3.70 × 3.31)	←
Compression Ratio			10.0 : 1	9.6 : 1
Max. Output	(SAE-NET)		210 kW @ 5400 rpm (282 HP @ 5400 rpm)	183 kW @ 4800 rpm (245 HP @ 4800 rpm)
Max. Torque	(SAE-NET)		440 N·m @ 3400 rpm (325 ft-lbf @ 3400 rpm)	427 N·m @ 3400 rpm (315 ft-lbf @ 3400 rpm)
Valve Timing	Intake	Open	30° - -14° BTDC	3° BTDC
		Close	15° - 59° ABDC	36° ABDC
	Exhaust	Open	46° BBDC	←
		Close	3° ATDC	←
Firing Order			1- 8 - 4 - 3 - 6 - 5 - 7 - 2	←
Research Octane Number			91 or higher	←
Octane Rating			87 or higher	←
Engine Service Mass* (Reference) kg (lb)			245 (540)	240 (529)
Oil Grade			API SL, EC or ILSAC	←
Tailpipe Emission Regulation		California	LEVII-ULEV, SFTP	ULEV, SFTP
		Except California	Tier2-Bin8, SFTP	
Evaporative Emission Regulation			LEV-II, ORVR	←

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

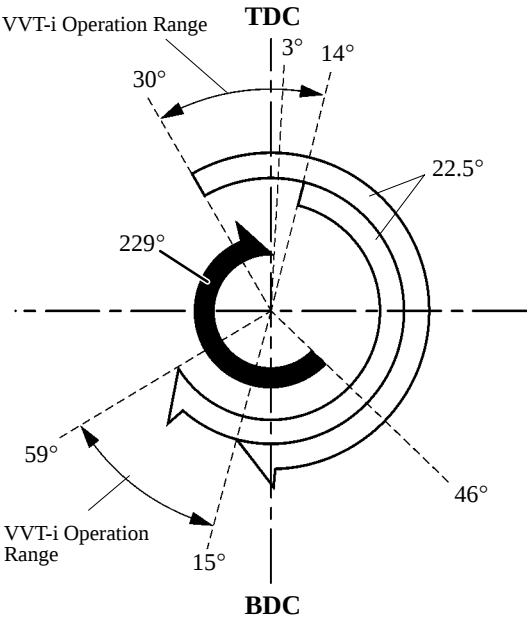
► Performance Curve ◀



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► Valve Timing ◀

◀ : Intake Valve Opening Angle
▶ : Exhaust Valve Opening Angle



273GX03