

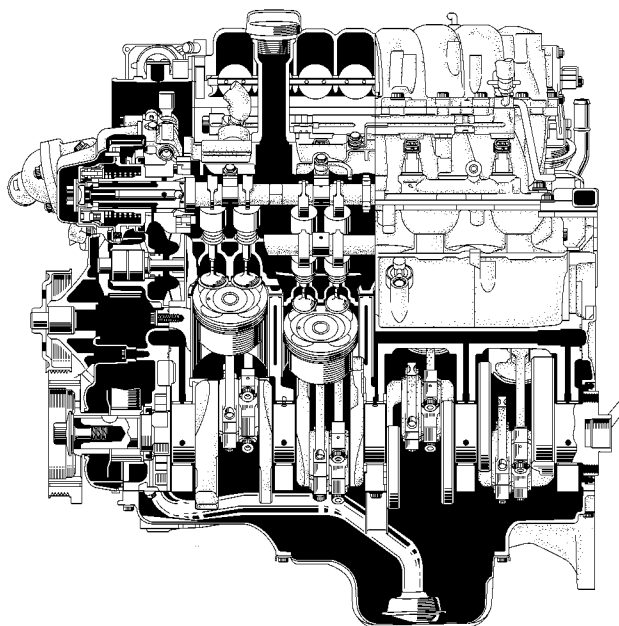
ENGINE

3UZ-FE ENGINE

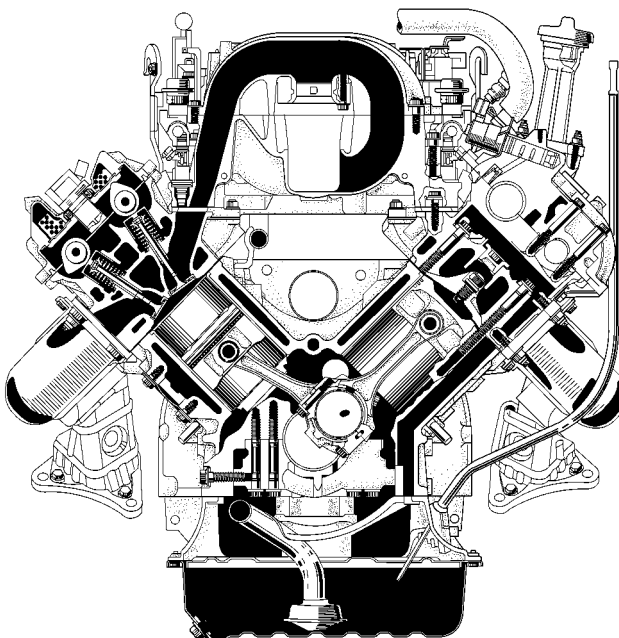
■ DESCRIPTION

On new LS430, base on the 1UZ-FE engine adopted on previous LS400, 3UZ-FE engine of V8, 4.3-liter, 32-valve DOHC with the enlarged bore has been adopted.

This engine has adopted the VVT-i (Variable Valve Timing-intelligent) system, ACIS (Acoustic Control Induction System) and ETCS-i (Electronic Throttle Control System-intelligent), and these control functions have been optimized in order to realize the further improvement of the engine performance, fuel economy and to reduce exhaust emissions.



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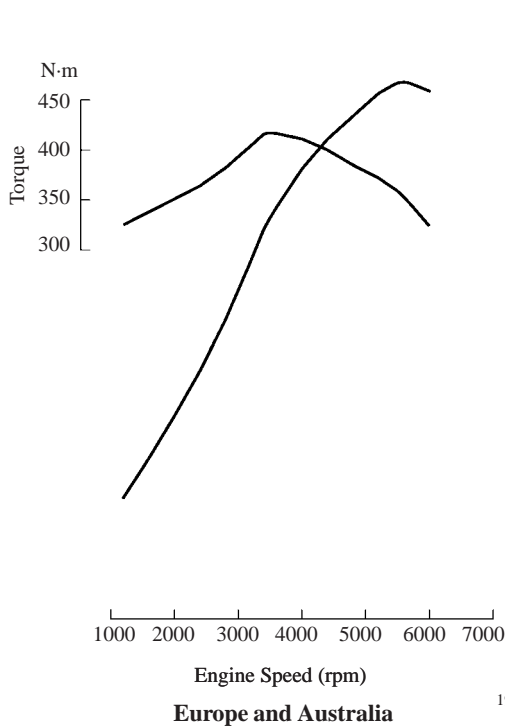
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► Engine Specifications ◀

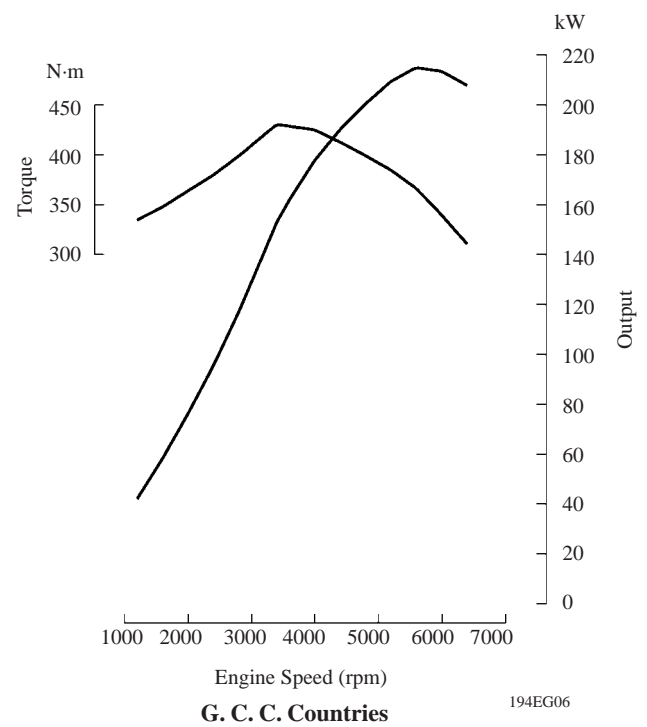
Engine Type			3UZ-FE	1UZ-FE
No. of Cyls. & Arrangement			8-Cylinder, V Type	←
Valve Mechanism			32-Valve DOHC, Belt & Gear Drive	←
Combustion Chamber			Pentroof Type	←
Manifolds			Cross-Flow	←
Fuel System			EFI	←
Displacement cm ³ (cu. in.)			4293 (261.9)	3969 (242.1)
Bore × Stroke mm (in.)			91.0 × 82.5 (3.58 × 3.25)	87.5 × 82.5 (3.44 × 3.25)
Compression Ratio			10.5 : 1	←
Max. Output	Europe and Australia		207 kW @ 5600 rpm(EEC)	209 kW @ 5900 rpm(EEC)
	G.C.C. Countries		215 kW @ 5600 rpm (SAE-NET)	209 kW @ 5900 rpm (SAE-NET)
Max. Torque	Europe and Australia		417 N·m @ 3500 rpm(EEC)	398 N·m @ 4100 rpm(EEC)
	G.C.C. Countries		430 N·m @ 3400 rpm (SAE-NET)	398 N·m @ 4100 rpm (SAE-NET)
Valve Timing	Intake	Open	−14° ~ 31° BTDC	−14° ~ 36° BTDC
		Close	64° ~ 19° ABDC	64° ~ 14° ABDC
	Exhaust	Open	46° BBDC	←
		Close	3° ATDC	←
Fuel Octane Number RON			95 or more	←
Oil Grade			API SJ, EC or ILSAC	←

EG

► Performance Curve ◀



194EG01



194EG06