

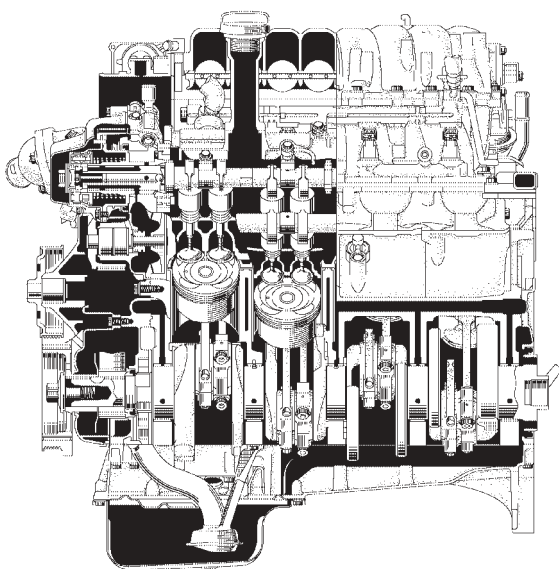
3UZ-FE ENGINE

■ DESCRIPTION

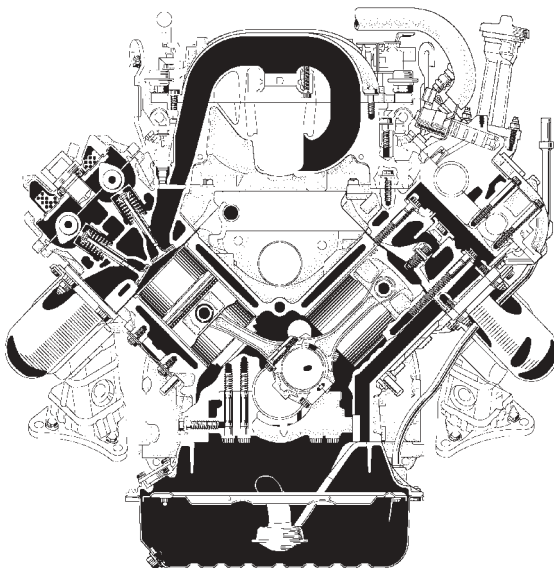
On new GS430, base on the 1UZ-FE engine adopted on previous LS400, 3UZ-FE engine of V8, 4.3-liter, 32-valve DOHC with the enlarged bore has been adopted.

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.

However, this engine has been adopted only on the European model GS430.



188EG03



188EG04

► 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 x Stroke		mm (in.)	91.0 x 82.5 (3.58 x 3.25)	87.5 x 82.5 (3.44 x 3.25)
Compression Ratio			10.5 : 1	←
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	←