

PERFORMANCE

Engine

One gasoline engine and three types of diesel engines are available.

Engine type		No. of Cyls. & Arrangement	Displacement cm ³ (cu. in.)	Fuel System	Area Application
Gasoline Engine	3RZ-FE (unleaded)	4-Cylinder, In-line	2694 (164.4)	EFI	Australia, G.C.C. Countries, General Countries
	3RZ-FE (leaded)	4-Cylinder, In-line	2694 (164.4)		General Countries
Diesel Engine	1KD-FTV	4-Cylinder, In-line	2982 (182.0)	Common-rail Type	Europe
	1KZ-TE	4-Cylinder, In-line	2982 (182.0)	Distributor Type	Australia, General Countries
	5L-E	4-Cylinder, In-line	2986 (182.2)		General Countries

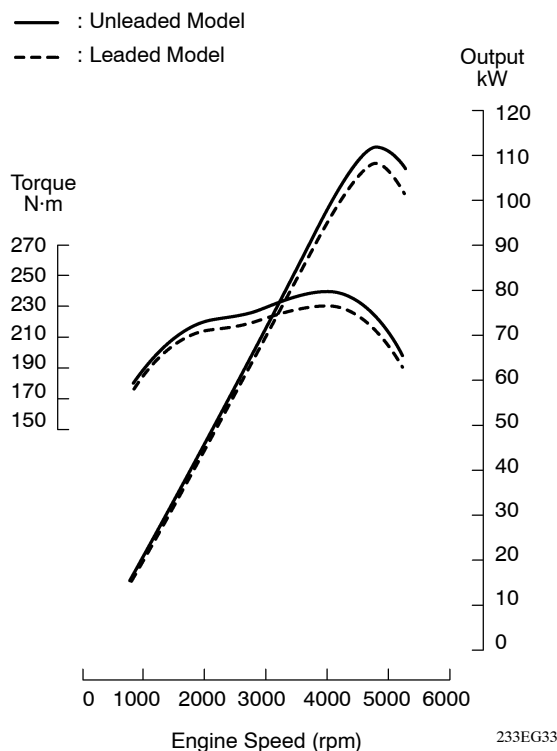
3RZ-FE Engine (leaded / unleaded)

- The 3RZ-FE engine is an in-line 4-cylinder, 2.7-liter, 16-valve DOHC engine.
- Models for Australia, G.C.C. countries, and some general countries have an unleaded gasoline engine. Models for some general countries have a leaded gasoline engine.

Outline of Engine

Engine	3RZ-FE	
No. of Cyls. & Arrangement	4-Cylinder, In-line	
Valve Mechanism	16-Valve DOHC, Chain & Gear Drive	
Displacement cm ³ (cu. in.)	2694 (164.4)	
Bore × Stroke mm (in.)	95.0 × 95.0 (3.74 × 3.74)	
Compression Ratio	9.5 : 1	
Maximum Output (kW / rpm)	(Unleaded)	112 / 4800 (SAE-NET)
	(Leaded)	108 / 4800 (SAE-NET)
Maximum Torque (N·m / rpm)	(Unleaded)	240 / 4000 (SAE-NET)
	(Leaded)	230 / 4000 (SAE-NET)

Engine Performance Curve



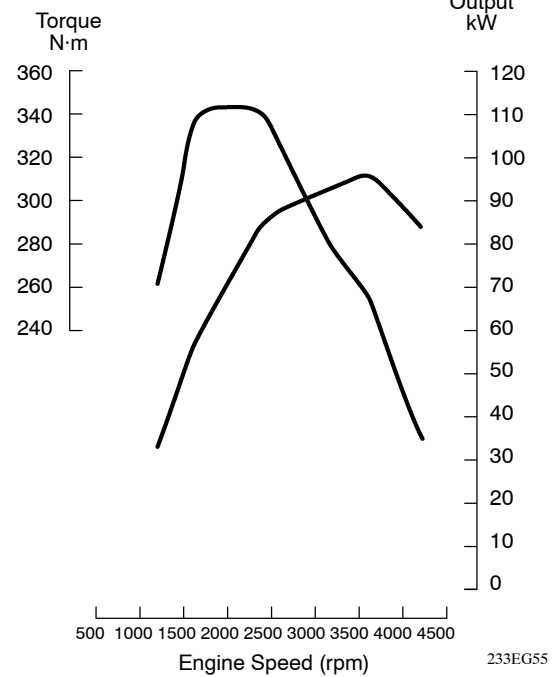
1KZ-TE Engine

- The 1KZ-TE is an in-line 4-cylinder, 3.0-liter, 8-valve OHC with intercooler turbocharged diesel engine.

Outline of Engine

Engine	1KZ-TE
No. of Cyls. & Arrangement	4-Cylinder, In-line
Valve Mechanism	8-Valve OHC, Gear & Belt Drive
Combustion Chamber	Swirl Type
Displacement cm ³ (cu. in.)	2982 (182.0)
Bore × Stroke mm (in.)	96.0 × 103.0 (3.78 × 4.06)
Compression Ratio	21.0 : 1
Maximum Output (kW / rpm)	96 / 3600 (SAE-NET)
Maximum Torque (N·m /rpm)	343 / 2000 (SAE-NET)

Engine Performance Curve



1KD-FTV Engine

- The 1KD-FTV TOYOTA D-4D (Direct injection 4 stroke common-rail Diesel engine) is an in-line 4-cylinder, 3.0-liter, 16-valve DOHC with intercooler turbocharged diesel engine.

Outline of Engine

Engine	1KD-FTV
No. of Cyls. & Arrangement	4-Cylinder, In-line
Valve Mechanism	16-Valve DOHC, Gear & Belt Drive
Combustion Chamber	Direct Injection Type
Displacement cm ³ (cu. in.)	2982 (182.0)
Bore × Stroke mm (in.)	96.0 × 103.0 (3.78 × 4.06)
Compression Ratio	18.4 : 1
Maximum Output (kW / rpm)	120 / 3400 (EEC)
Maximum Torque (N·m /rpm)	343 / 1600 – 3200 (EEC)

Engine Performance Curve

