PERFORMANCE

1. Outline

1) 14B Engine

The 14B engine is an in-line 4-cylinder, 3.7-liter, 8-valve OHV diesel engine.

Engine Type		14B
Item	No. of Cylinders and Arrangement	4-cylinder, In-line
	Valve Mechanism	8-valve OHV, Gear Drive
	Displacement	3661 cm^3 (223.4 cu. in.)
	Maximum Output [SAE-NET]	72 kw @ 3400 rpm
	Maximum Torque [SAE-NET]	240 N*m @ 1800 rpm

2) N04C-VL Engine

- The N04C-VL engine is an in-line 4-cylinder, 4.0-liter, 16-valve OHV diesel engine.
- This engine uses the common-rail system and turbocharger with intercooler. It has been developed to realize high output, good fuel economy and clean exhaust emission.

Engine Type		N04C-VL
Item	No. of Cylinders and Arrangement	4-cylinder, In-line
	Valve Mechanism	16-valve OHV, Gear Drive
	Displacement	4009 cm^3 (244.9 cu. in.)
	Maximum Output [EEC]	100 kw @ 3000 rpm
	Maximum Torque [EEC]	353 N*m @ 1600 rpm

3) N04C-VQ Engine

- The N04C-VQ engine is an in-line 4-cylinder, 4.0-liter, 16-valve OHV diesel engine.
- This engine uses the common-rail system, variable nozzle vane type turbocharger with intercooler and oxidation catalyst. It has been developed to realize high output, good fuel economy and clean exhaust emission.

Engine Type		N04C-VQ
Item	No. of Cylinders and Arrangement	4-cylinder, In-line
	Valve Mechanism	16-valve OHV, Gear Drive
	Displacement	4009 cm^3 (244.9 cu. in.)
	Maximum Output [EEC]	100 kw @ 2500 rpm
	Maximum Torque [EEC]	390 N*m @ 1400 to 2400 rpm

4) N04C-UH Engine

- The N04C-UH engine is an in-line 4-cylinder, 4.0-liter, 16-valve OHV diesel engine.
- This engine uses the common-rail system, variable nozzle vane type turbocharger with intercooler and DPF (Diesel Particulate Filter) system. It has been developed to realize high output, good fuel economy and clean exhaust emission.

Engine Type		N04C-UH
Item	No. of Cylinders and Arrangement	4-cylinder, In-line
	Valve Mechanism	16-valve OHV, Gear Drive
	Displacement	4009 cm^3 (244.9 cu. in.)
	Maximum Output [EEC]	110 kw @ 2700 rpm
	Maximum Torque [EEC]	397 N*m @ 1800 rpm

5) 1HZ Engine

The 1HZ engine is an in-line 6-cylinder, 4.2-liter, 12-valve OHC diesel engine.

Engine Type		1HZ
Item	No. of Cylinders and Arrangement	6-cylinder, In-line
	Valve Mechanism	12-valve OHC, Gear and Belt Drive
	Displacement	4164 cm^3 (254.1 cu. in.)
	Maximum Output [SAE-NET]	96 kw @ 3800 rpm
	Maximum Torque [SAE-NET]	285 N*m @ 2200 rpm

6) 1BZ-FPE Engine

- The 1BZ-FPE engine is an in-line 4-cylinder, 4.1-liter, 16-valve OHV engine.
- The fuel of this engine is LPG (Liquefied Petroleum Gas).

Engine Type		1BZ-FPE
Item	No. of Cylinders and Arrangement	4-cylinder, In-line
	Valve Mechanism	16-valve OHV, Gear Drive
	Displacement	4104 cm^3 (250.4 cu. in.)
	Maximum Output [SAE-NET]	85 kw @ 3600 rpm
	Maximum Torque [SAE-NET]	306 N*m @ 2000 rpm

7) 2TR-FE Engine[K1]

- The 2TR-FE engine is an in-line 4-cylinder, 2.7-liter, 16-valve DOHC engine.
- This engine uses the DIS (Direct Ignition System), ECTS-i (Electronic Throttle Control System-intelligent) and VVT-i (Variable Valve Timing-intelligent). It has been developed to realize high performance, quietness, fuel economy and clean exhaust emission.

Engine Type		2TR-FE
Item	No. of Cylinders and Arrangement	4-cylinder, In-line
	Valve Mechanism	16-valve DOHC, Chain Drive (with VVT-i)
	Displacement	2694 cm^3 (164.4 cu. in.)
	Maximum Output [SAE-NET]	108 kw @ 4800 rpm
	Maximum Torque [SAE-NET]	235 N*m @ 3800 rpm

8) M152, M155, M156 and M551 Manual Transmissions

M152, M155, M156 and M551 5-speed manual transmissions are used.

9) A444E Automatic Transmission

A444E 4-speed automatic transmission is used.

10) Suspension

- A torsion bar type double-wishbone independent suspension is used for the front.
- A leaf spring type rigid axle suspension is used for the rear.

11) Steering

- A recirculating ball type steering gear is used.
- Hydraulic power steering is used.
- A manual tilt and telescopic mechanism in the steering column is used for the some models.

12) Brake

- 2 type of front brake are available: A ventilated disk brake type or a 2-leading type drum brake.
- Dual-2-leading type drum brake is used for the rear.
- A brake control system equipped with an ABS (Anti-lock Brake System), PAB (Power Assist Brake)*[1] and EBD (Electronic Brake force Distribution)*[2] is used for the some models.

HINT:
***[1]: Power Assist Brake (brake pressure increase function)**
***[2]: Models with CAN communication compatible skid control ECU (brake actuator assembly)**