

# **ENGINE SPECIFICATIONS AND PERFORMANCE CURVE (1HD-T ENGINE)**

1HD-T Engine			New	Previous
Item				
No. of Cyls. & Arrangement			6-Cylinder, In-Line	←
Valve Mechanism			12-Valve, OHC, Gear and Belt Drive	←
Combustion Chamber			Direct Injection Type	←
Manifolds			Cross-Flow	←
Displacement		cm <sup>3</sup> (cu. in.)	4164 (254.0)	←
Bore x Stroke		mm (in.)	94.0 x 100.0 (3.70 x 3.94)	←
Compression Ratio			18.6 : 1	←
Max. Output		SAE-NET	118 kW @ 3600 rpm	←
Max. Torque		SAE-NET	360 N·m @ 2100 rpm	←
Valve Timing	Intake	Open	8° BTDC	←
		Close	29° ABDC	←
	Exhaust	Open	51° BBDC	←
		Close	5° ATDC	←
Fuel Cetane Number			48 or higher	←
Oil Grade			API CF-4	API CD or Better

