

■ MAJOR DIFFERENCES

Major differences of the new 1HD-FTE engine and previous 1HD-FT engine are listed below.

Item	Features
Engine Proper	<ul style="list-style-type: none"> ● A cylinder head cover made of resin has been adopted for weight reduction and low-noise operation. ● The rigidity of the cylinder block has been improved to reduce noise and vibration. ● Newly designed pistons have been adopted to improve the engine performance and reliability. ● The crankshaft has been made highly rigid to reduce noise and vibration. ● The crankshaft bearings have been machine-bored to improve their reliability.
Cooling System	<ul style="list-style-type: none"> ● An aluminum radiator core is used for weight reduction. ● A step-up linear type temperature controlled fluid coupling has been adopted to improve cooling performance.
Lubrication System	<ul style="list-style-type: none"> ● A high-performance oil filter element has been adopted to improve the cleanliness of the engine oil. ● The oil capacity of the engine has been increased to improve its reliability. ● A drip pan is provided on the oil cooler cover to improving serviceability.
Intake and Exhaust System	<ul style="list-style-type: none"> ● A ball joint has been adopted in the front exhaust pipe to reduce noise and vibration. ● An oxidation catalytic converter has been adopted in the front exhaust pipe to reduce exhaust emissions.
Turbocharger System	<ul style="list-style-type: none"> ● A compact turbocharger has been adopted to attain a widely ranging high-efficiency region from the low- to the high-speed range. ● An intercooler has been adopted to improve engine performance.
Fuel System	<ul style="list-style-type: none"> ● A radial plunger type electronically controlled injection pump that produces a high injection pressure has been adopted to improve the engine performance while reducing exhaust emissions. ● The injection nozzles have been optimized to improve the engine performance and reduce exhaust emissions.
Starting System	The 12/24 volt switchover system has been discontinued to simplify the wiring system.
Engine Control System	<ul style="list-style-type: none"> ● An electronic fuel injection system has been adopted. ● M-OBD (Multiplex On-Board Diagnosis) system is adopted.