■ FEATURES OF 3ZR-FAE ENGINE

This engine has been able to achieve the following performance through the use of the items listed below:

(1) High performance and fuel economy

(2) Low noise and vibration

(3) Lightweight and compact design

(4) Good serviceability

(5) Clean emissions

Item		(1)	(2)	(3)	(4)	(5)
Engine Proper	A cylinder block made of aluminum alloy is used.			○		
	Spiny liners are used.	○				
	Low tension piston rings are used.	○				○
Valve Mechanism	A timing chain and a chain tensioner are used.		○		○	
	Hydraulic lash adjusters are used.		○		○	
	Roller rocker arms are used.	○	○		○	
Cooling System	Toyota Genuine Super Long Life Coolant (SLLC) is used.				○	
Intake and Exhaust System	An intake manifold made of plastic is used.			○		
	A stainless steel exhaust manifold is used.			○		○
	Three-Way Catalytic converters (TWCs) are used.					○
Fuel System	A fuel returnless system is used.			○	○	○
	Quick connectors are used to connect the fuel hose with the fuel pipe.				○	
Ignition System	The DIS makes ignition timing adjustment unnecessary.	○			○	○
	Long-reach, thin-electrode type iridium tipped spark plugs are used.	○			○	○
Charging System	A segment conductor type alternator is used.	○		○		
Serpentine Belt Drive System	A serpentine belt drive system is used.	○		○	○	
Engine Control System	A magnetic Resistance Element (MRE) type camshaft position sensors are used.					○
	The ETCS-i is used.	○				
	The VALVEMATIC is used.	○				○
	The Dual VVT-i is used.	○				○
	The ACIS is used.	○				○
	The starter control is used.*	○				

*: Models with entry & start system