

Enginetech Inc
For Technical Assistance Call:
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TECHNICAL BULLETIN	
	December 1995 TB 1289
Mfg:	TOYOTA
Model:	4-RUNNER
Liter:	3.0L
V I N:	3V-ZE
Year:	88-95

Oil in The Cooling System On
1988 Toyota 3.0L, 3VZE Engines

AERA members have reported engine oil entering the cooling system on 1988 Toyota 3.0L 3VZE engines. The most common source of this oil contamination has been a crack in the oil gallery of the cylinder block. Some cracks can be seen with the naked eye and extend up into the cylinder bore.

This area of the block contains a vertical oil galley that feeds both banks oil to provide lubrication to the cams and valve train. A crack in this area will connect the pressurized engine oil to the coolant passages of the block. Pressure testing the cylinder block will confirm the defect.

The manufacturing process of the 4 motor mount bolt hole block, was modified toward the end of the 1988 production year to strengthen this problem area. Later blocks castings with 6 motor mount bolt holes have not exhibited this problem.

Note: Other possible causes of oil in the cooling system may be the engine oil cooler, if so equipped, or either cylinder head.

The AERA Technical Committee

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Reference:	
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