

Enginetech Inc
Tech Assistance 800-410-3664 ext. 340 or 237

TECHNICAL BULLETIN	
	November 1997 TB 1508
Mfg:	GM
Model:	C-SERIES
Liter:	5.7L
V I N:	R
Year:	96-02

Oil Consumption On
1968-95 GM 5.0 & 5.7L Engines

AERA members have expressed oil consumption concerns after rebuild on 1968-95 GM 5.0 & 5.7L engines. These engines were manufactured by Chevrolet and are used in a wide variety of cars and trucks. The amount of oil consumption will vary, depending upon the severity of this condition. There may not be any telltale signs of this consumption except some oil smoke at start up.

This condition allows engine oil to be drawn into the incoming air/fuel mixture on the bottom side of the intake manifold. Oil or oil vapors are readily available to fill any voids at the intake manifold mating surfaces. Those vapors then enter the combustion process, burning so completely, there is little evidence out the exhaust .

The major cause of this type of condition has been a warped intake manifold which has been reinstalled on the rebuilt engine. There can be different causes for leakage between the mating surface of the manifold and cylinder head. They include:

1. Excessive warpage of either component.
2. Uncommon angles created by numerous machining operations.
3. Improper manifold installation or torque values used.
4. Casting porosity.

To determine if an intake manifold gasket is leaking on these engines, block off the crankcase fresh air supply, eliminate the PCV valve and plug its vacuum source. Then, plumb in a vacuum gauge into the PCV grommet, making sure all connections are tight. Start the engine and observe the reading on the vacuum gauge. Any vacuum measured is an indication of a leak.

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The AERA Technical Committee

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