

AERA TECHNICAL BULLETIN TB1470

- ◇ Oil filter By-Pass Valve Caution ON
- ◇ 1985-97 GM 4.3L VIN B, N, R, W & Z Engines

The AERA Technical Committee offers the following information on oil filter by-pass valves for 1985-97 GM 4.3L VIN B, N, R, W & Z Engines. These engines are used in a wide range of applications and require a specific oil filter by-pass valve.

Most of these engine applications use a remote engine oil filter and oil cooler. These engines require an oil filter by-pass valve with a higher psi opening rate. This is due to the inherent restriction caused by the oil cooler and remote filter. During engine start-up periods, unfiltered oil may enter the engine's lubrication system if the by-pass valve, Part #25014612, is not used. This revised valve does not fully open until 21 psi, that pressure limit should prevent unfiltered oil from entering the engine's oil galleys. The previous valve starts opening at a pressure of 8 psi and is fully open at 11 psi. The updated valve has been installed in this unit.

- ◇ Remote Oil Filter ◇ Standard Mount Filter

- ◇ By-pass Valve: ◇ Part #25014612 ◇ Part #25014006

Engines that do not use a remote filter or oil cooler may use the original oil filter by-pass valve, Part #25014006.

General Motors also recommends replacing the oil cooler on any engine that has failed catastrophically or due to a bearing failure. It is also recommended all oil lines and adapters be removed from the vehicle and thoroughly cleaned and flushed or replaced.

The use of any abrasive surface conditioning discs or similar products to clean gasket surfaces is forbidden. Tests have shown grit from those pads has entered the engine oil supply and is a leading cause of bearing failure.