



S13 Differences – Oil Pressure Variations and Drain Back

- ▶ Oil pressure may safely fluctuate to values as low 19 psi under normal operating conditions.
- ▶ S13 Engine is equipped with active oil pressure management
 - Ensures all components are adequately lubricated
 - Reduces parasitic / improves fuel economy.
 - If oil pressure is a concern, a malfunction indicator lamp will illuminate.
 - **Note: This is an electronically controlled variable pump – the pressure may jump abruptly from value to value (ex: 90-95psi at cold start, to 25psi at operating temp cruising)**
 - Light Load Cruise – 25 psi
 - High Load Operation – 50 psi
 - Hot Idle – 19-25 psi
 - Cold Idle – Near 90 psi
- Due to oil pump configuration, oil drain back can take longer than previously experienced
 - If checking the oil within 15 mins of engine operation, oil may be in the lower part of the hashmarks and top-off is not required.
 - If engine is left sitting for an extended time (~2 Hours), oil will drain back to full.



Malfunction Indicator Lamp (MIL)



Acceptable Oil Fill Range ~10-15 Minutes after engine shutdown