

TO: SERVICE MANAGER MECHANICS
PARTS MANAGER

No. 93-8

A. 224 CID (3.7L) MINIMUM OIL PRESSURE

Model

MCM 470, 485, 165, 170, 180, 190, 3.7L, 3.7LX, MIE 470 Engines
Serial Number: All

Change

All literature out in the field says that the oil pressure should be 30-60 psi (207-414 kPa) at 2000 RPM. This specification is being changed to the following;

Minimum Oil Pressure @ 2000 RPM 15 psi (103 kPa)

Reason for Change

We've made this change to stop confusion about what is good oil psi and what is not. If the engine is started and brought up to operating temperature then run at 2000 RPM, the oil psi will be 30-60 psi (207-414 kPa). If the engine is run for a period of time at 3000 + RPM, and then brought back down to 2000 RPM, the oil psi may fall below 30 psi (207 kPa). During some of our testing, we ran an engine at 4500 RPM for 10 minutes and then lower the RPM to 2000. The engine then had 20 psi (137 kPa). After the engine ran for 3-6 minutes at 2000 RPM, it had 32 psi (220 kPa) oil pressure. This 3-6 minute run at 2000 RPM allowed the engine and oil to cool back down after a high RPM run. The most important item in engine lubrication is the volume of oil that flows thru an engine. There is a sufficient amount of oil flowing thru this engine at 15 psi (103 kPa) at 2000 RPM.

Service Manuals

Please make this change to your number 3 and 8 Service Manuals. We will be making this change to those manuals at the time of their next update.