

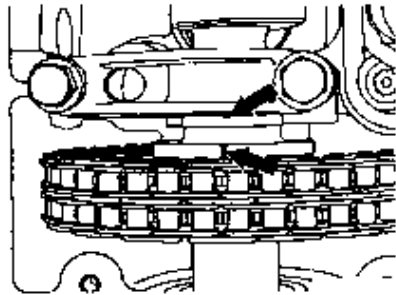


# FACTORY SERVICE BULLETINS

## Stretched' Timing Chain Model 124 with Engines 602 or 606, Model 140 with 603

Diesel engines are very durable, but they do decline in specific ways over time. Here are the symptoms you might expect from a 'stretched' (i.e., worn) timing chain:

- Rattling or other noises from the chain cover area
- Rough running engine
- Hard starting
- Loss of power (consistent)
- Increased lubricating oil consumption



Here's the best way to determine whether there has been timing chain 'stretch' beyond specifications:

With the timing cover off, turn the engine by hand with the crankshaft bolt in the normal direction until the timing mark on the camshaft lines up with the mark on the camshaft bearing cap. Then check the position of the crankshaft pulley compared to the graduated scale and the needle on the block. If the camshaft

timing is off by 3 to 10 degrees, replace the timing chain. While you're inside the cover, turn the crankshaft through two complete cycles so you can inspect every tooth on every sprocket. Some wear on the chain guides is normal, but there should not be any on the sprocket teeth.