

SUPPLEMENTAL DIAGNOSTIC ANALYSIS

FUEL/OIL DILUTION

PROBABLE CAUSES

If a substantial amount of fuel is in the oil the most probable cause is a leaking tandem lift pump. A leaking nozzle sleeve or injector tip could cause fuel to contaminate the engine oil but would probably be identified as a performance problem. A porous cylinder head could also cause fuel to contaminate the engine oil but would only be likely in a very low mileage vehicle.

PROCEDURES

- Verify oil contamination. Oil contaminated with diesel fuel will have a diesel fuel odor and will cause the oil level in the engine to "grow".
- If the oil has a heavy diesel fuel odor and the oil level on the dipstick has increased over time it is possible that the tandem lift pump is leaking fuel into the crankcase.

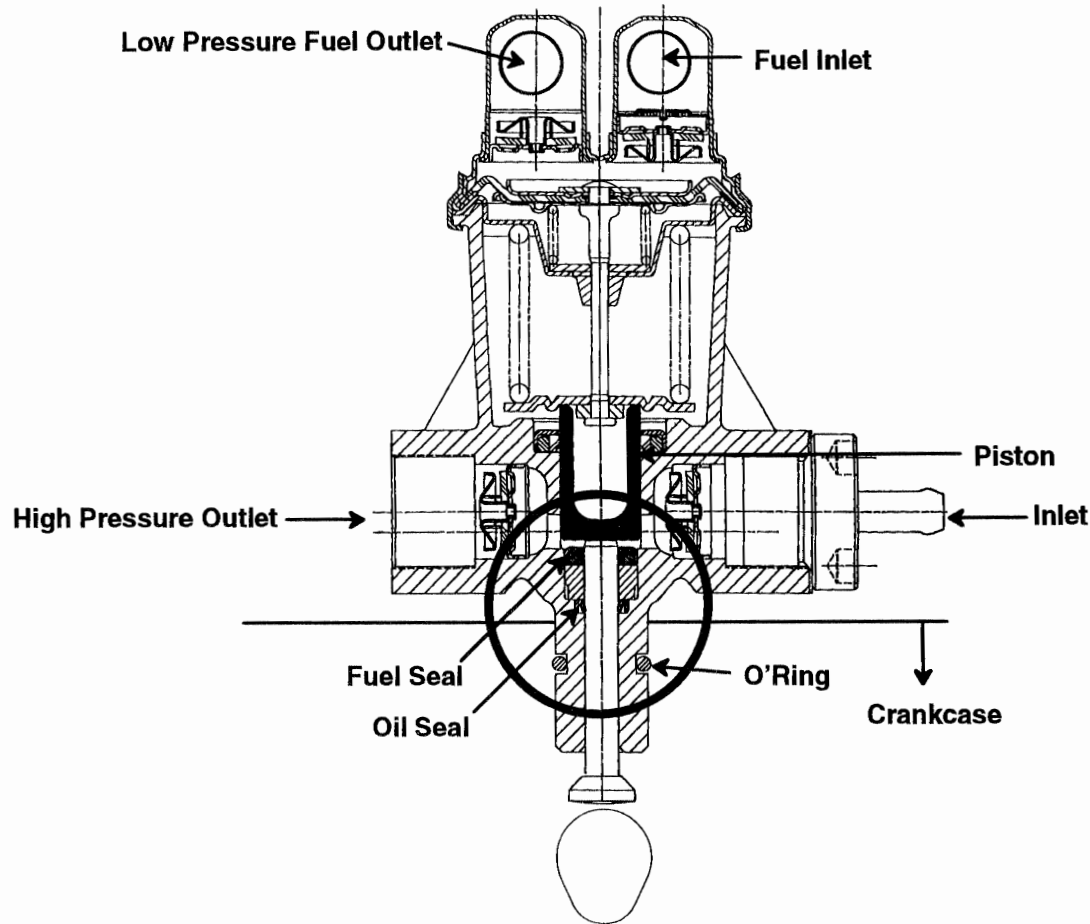


Figure 4.10. – Fuel Pump: Possible Fuel to Oil Leak Paths