



Diagnosis and Testing

Inspection and Verification

- 1. Verify the customer concern.
- 2. Visually inspect for obvious signs of mechanical damage.

Visual Inspection Chart

Mechanical
• Hose(s)/hose joints • Gasket(s) • Positive crankcase ventilation (PCV) valve • Crankcase vent oil separator

- 3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
- 4. If the concern is not visually evident, verify the symptom and refer to the Symptom Chart.

Symptom Chart

Symptom	Possible Sources	Action
Excessive crankcase pressure	* Blocked PCV valve. * Blocked crankcase vent oil separator. * Blocked PCV hose.	* CLEAN or INSTALL new PCV components as necessary. TEST the system for normal operation.
	* Worn or damaged engine components.	* REFER to: Engine (303-01B Engine, Diagnosis and Testing), Engine (303-01C Engine, Diagnosis and Testing).
Oil in the air intake system	* Restriction in the crankcase vent oil separator.	* CLEAN or INSTALL a new crankcase vent oil separator. TEST the system for normal operation.
	* PCV valve permanently open.	* INSTALL a new PCV valve. TEST the system for normal operation.
	* Worn or damaged engine components.	* REFER to: Engine (303-01B Engine, Diagnosis and Testing), Engine (303-01C Engine, Diagnosis and Testing).