

**Subject:** Engineering Information – Malfunction Indicator Lamp (MIL) Illuminated, DTC P0496 Set

**Attention:** Proceed with this EI ONLY if the customer has commented about this concern AND the PIE number is listed in the Global Warranty Management / Investigate History link (GWM/IVH). If the customer has not commented about this condition or the EI does not show in GWM/IVH, disregard the PI and proceed with diagnostics found in published service information. THIS IS NOT A RECALL — refer to the latest version of Service Bulletin 04-00-89-053 for more details on the use of Engineering Information bulletins.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	XT4	2019	2019			2.0L (LSY)	

Involved Region or Country	North America
Condition	<b>Important:</b> If the customer did not bring their vehicle in for this concern, DO NOT proceed with this EI. Some customers may comment on the malfunction indicator lamp (MIL) illuminated. Technicians may find DTC P0496 set.
Cause	GM Engineering is attempting to determine the root cause of the above condition. Engineering has a need to gather information on vehicles PRIOR to repair that may exhibit this condition. As a result, this information will be used to "root cause" the customer's concern and develop/validate a field fix.

**Correction**

If you encounter a vehicle with the above concern, perform the following and contact the engineers listed below with your findings.  
Perform SI Circuit / System Verification diagnostics first. If nothing is found, perform the following Service Procedure for air leak checks.

- 1. Remove the air cleaner outlet resonator. Refer to *Air Cleaner Outlet Resonator Replacement* in SI.
- 2. Remove the Air Cleaner Outlet Intermediate Duct. Refer to *Air Cleaner Outlet Intermediate Duct Replacement* in SI.
- 3. Remove the Turbocharger Outlet Duct Connector. Refer to *Turbocharger Outlet Duct Connector Replacement* in SI.

Verify the following conditions DO NOT exist:

- 1. G58 Evaporative Emission Purge Pump — Incorrect connection / Leaking / Visible Damage
- 2. Q12 Evaporative Emission Purge Solenoid Valve — Incorrect connection / Incorrect installation / Leaking / Visible Damage
- 3. Evaporative Emission Canister Purge Tube — Cracked / Disconnected / Incorrect connection / Leaking / Loose / Visible Damage

**Note:** If a leak is found at any step during diagnosis, call the engineer before continuing.

You can use SI for directions to hook up the Evaporative Emission System Tester (EEST) or separate the purge tube at the purge valve.

- 1. Install the T-fitting supplied with the EEST.
- 2. Install the purge tube and the EEST machine hose to the fitting.
- 3. Separate the Evaporative Emission Front Pipe from the pump.
- 4. Install a plug onto the pump.
- 5. Turn the smoke machine on.
- 6. Look for a leak in the purge pump body (internal O-ring).

**Note:** If a leak is found at any step during diagnosis, call the engineer before continuing. If NO, go to the next step.

Look for a leak at pump to tube connector (O-ring).

**Note:** If a leak is found at any step during diagnosis, call the engineer before continuing. If NO, go to the next step.

Look for a leak at the purge tube to T-fitting.

**Note:** If a leak is found at any step during diagnosis, call the engineer before continuing. If NO, go to the next step.

Look for a leak between the purge valve and adaptor.

**Important:** If a leak is found coming from the valve into the adaptor, **DO NOT SEPARATE**, and call the engineer before continuing. If NO, go to the next step.

Look for an internal valve leak past the valve O-ring into the adaptor. **DO NOT REMOVE** the valve from the adaptor.

**Important:** If a leak is found coming from the valve into the adaptor, **DO NOT SEPARATE**, and call the engineer before continuing.

## Contact Information

Engineer Name	Phone Number
Ken Swartz	248-431-9641
Dan Smith	248-343-7037

Please include the following information if leaving a message:

- Technician name
- Dealer name and phone number
- Complete VIN and repair order (R.O) number

On the repair order, document the date and time the call was placed (even if the engineer was not reached).

If engineering is unable to return the call within one hour, proceed with diagnosis and repair based on information found in SI.

## Warranty Information

If engineer was contacted or required information was provided, use:

Labor Operation	Description	Labor Time
4086938*	Engineering Information – Malfunction Indicator Lamp (MIL) Illuminated, DTC P0496 Set	0.6 hr
*This is a unique Labor Operation for Bulletin use only.		

Version	1
Modified	Released April 26, 2019