



01-16-15 - Gasoline Quality

Release date: 6/21/2021

Condition

Applicable Vehicles					
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All (except Routan,)	2000-2022	All Gasoline Engines	All	All	All

Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2014815/13	6/21/21	01-16-15	Update model year applicability.
2014815/12	3/1/21	01-16-15	Update model year applicability.
2014815/1	4/27/07	V010739	Original publication.

Gasoline Quality

The use of contaminated gasoline, seasonal fuel changes (summer/winter fuel) or gasoline with a low content of deposit control additives may result in one or more of the following conditions:

Excessive accumulation of deposits on intake valves, intake manifold, fuel injectors and combustion chambers.

Engine runs rough after cold start.

Excessive engine cranking time.

Stumbles while driving.

Rough engine idle.

Loss of engine performance.

Poor fuel economy.

Conditions may be severe enough to illuminate the MIL in conjunction with storage in the ECM data memory of DTCs for misfire (example: P0300, P030x) and / or lean fuel system (example: P0171, P0174, P1128, P1130, P1136, P1138).



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Technical Background

1. Condition may be caused by use of contaminated gasoline.
2. Condition may be caused by use of gasoline with a low content of deposit control additives.

Production Solution

No production change required.

Service

1. If use of contaminated gasoline is suspected:

Consider advising the customer to change gasoline source (brand/gas station). Contaminated gasoline may exhibit one or more of the following characteristics:

- May have unique color and odor.
- May contain water.
- May contain sediments and suspended matter.
- May appear cloudy and (after settling) may show signs of separation.

If use of gasoline with a low content of deposit control additives is suspected:

Recommend to the customer the exclusive use of **TOP TIER** Detergent Gasoline. These products provide improved deposit control performance. Current **TOP TIER** Gasoline retailers offering this product in all their octane grades include the following brands:

76 Stations	Shell
Aloha Petroleum	Sinclair
ARCO	Suncor Energy Inc.
Beacon	SuperAmerica
BP	Texaco
Chevron	Tri-Par Oil Co.
Conoco	Valero
Costco Wholesale	Chevron Canada
CountryMark	CO-OP



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Diamond Shamrock	Esso
Entec Stations	Petro-Canada
Express Convince Centers	Shell Canada
Exxon	Tempo
Hawaii Fueling Network (HFN)	Puma Energy Caribe, LLC
Holiday Stationstores	-
Kwik Trip / Kwik Star	-
MFA Oil Co.	-
Mobile	-
Ohana Fuels	-
Phillips 66	-
QuikTrip	-
Road Ranger	-
Shamrock	-

**Tip:**

For more information on TOP TIER Detergent Gasoline, please see www.toptiergas.com.

For the fast removal of existing carbon deposits from injectors, combustion chambers and intake valves (intake valves apply to MPI engines only) gasoline additive G 001780M3 can be used. Mix additive directly with gasoline in fuel tank following mix ratio described on additive container. (example 20 ml per 10 liters of gasoline, 150 ml per 20 gallons of gasoline).



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Warranty

No warranty coverage for this condition.

Required Parts and Tools

No Special Parts required.

No Special Tools required.

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.