



Preliminary Information

PIP5151E Diagnostic Tip - Diesel Fuel System Contamination

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Colorado	2016 - 2019	All	All	2.8 LWN	All
Chevrolet	Cruze	2014 - 2016	All	All	2.0 LUZ	All
Chevrolet	Cruze	2017 - 2018	All	All	1.6 LH7	All
Chevrolet	Equinox	2018 - 2019	All	All	1.6 LH7	All
Chevrolet	Express	2010 - 2016	All	All	6.6 LGH and LML	All
Chevrolet	Express	2017	All	All	2.8 LWN	All
Chevrolet	Silverado	2011 - 2019	All	All	6.6 L5P, LGH and LML	All
GMC	Canyon	2016 - 2019	All	All	2.8 LWN	All
GMC	Savana	2010 - 2016	All	All	6.6 LGH and LML	All
GMC	Savana	2017	All	All	2.8 LWN	All
GMC	Sierra	2011 - 2019	All	All	6.6 L5P, LGH and LML	All
GMC	Terrain	2018 - 2019	All	All	1.6 LH7	All

Supersession Statement

This PI was superseded to add Models, Model Years and engines. Please discard PIP5151D.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition / Concern

A dealer may encounter a customer's concern of hard start, no start, rough running, low fuel pressure and/or DTCs P0087, P0088, P0191 and P128E. During inspection of the fuel system and it's components, the dealer may find contamination. Below are examples of contamination that have been found in returned parts and what we believe to be the source of the contamination. There are also examples of diesel fuel mixed with automotive liquids that might help identify different sources of contamination.



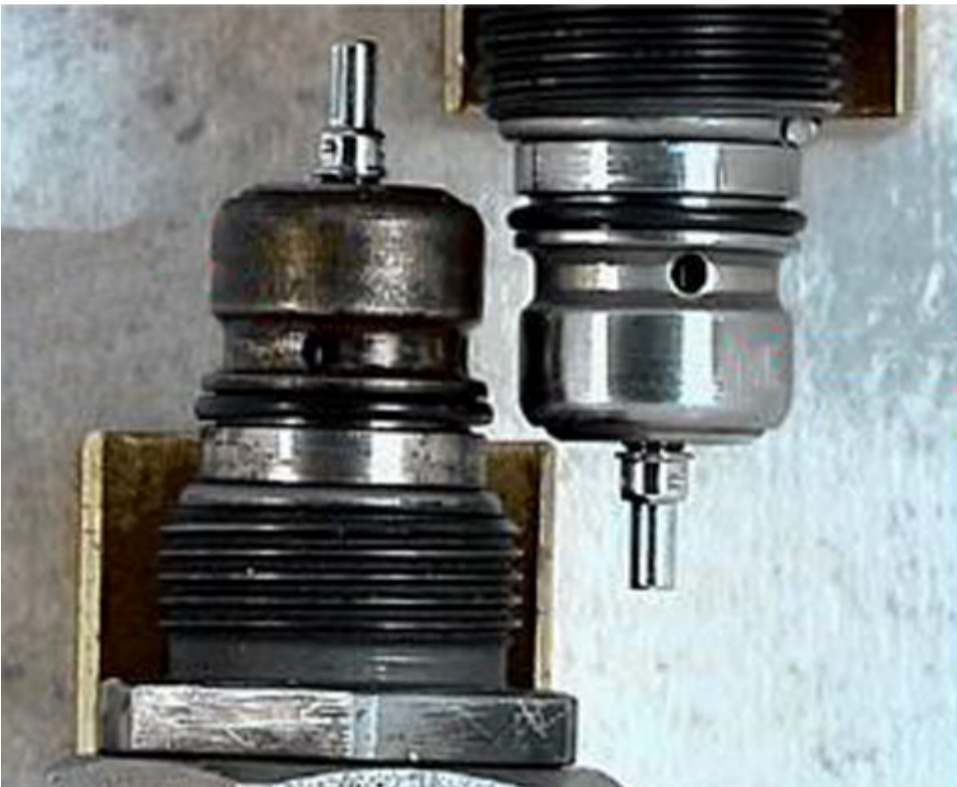
LGH/LML Fuel Pressure Regulator 1 Contaminated With Diesel Exhaust Fluid (DEF)



LGH/LML Fuel Pressure Regulator 1 Contaminated With DEF



LGH/LML Fuel Pressure Regulator 1 With Rust Due To Water Contamination



LGH/LML Fuel Pressure Regulator 2 With Rust (On Left) Due To Water Contamination



LGH/LML Fuel Pressure Regulator 2 With DEF Contamination



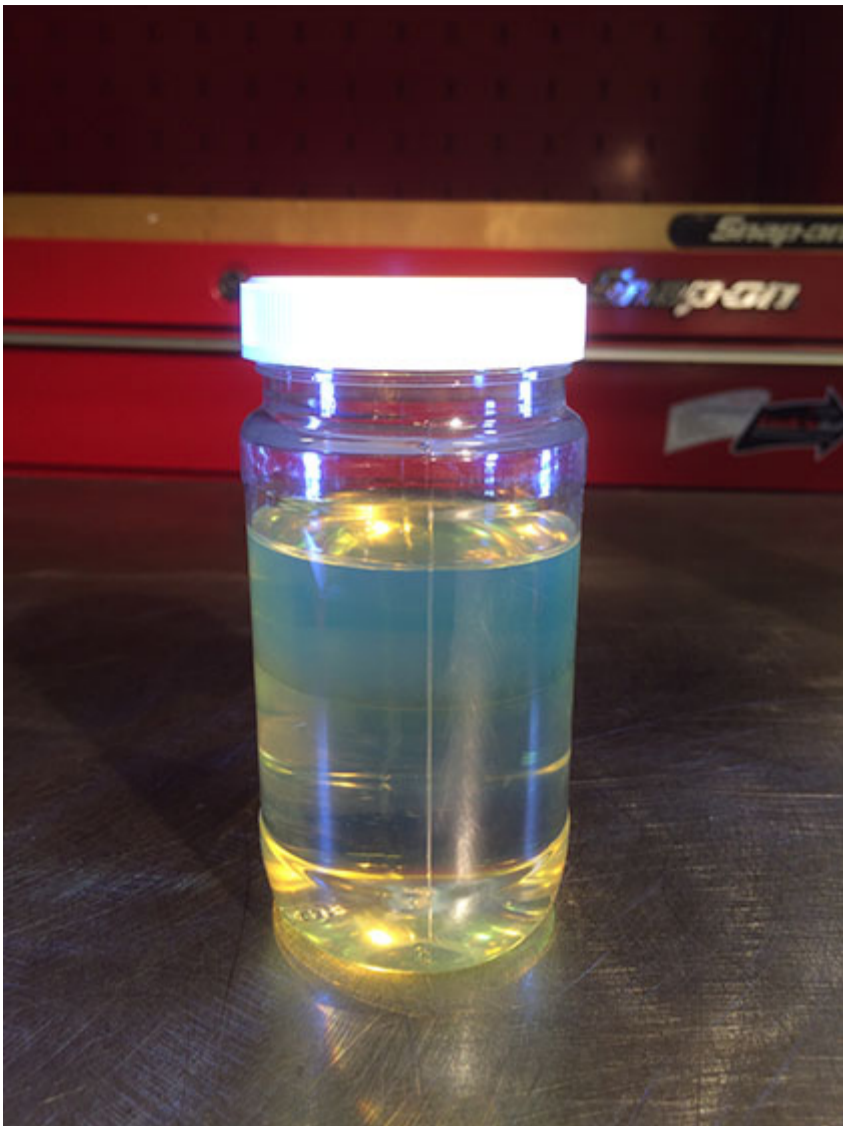
Diesel Fuel and Coolant



Diesel Fuel and Engine Oil



Diesel Fuel and Transmission Fluid



Diesel Fuel and Brake Fluid



Diesel Fuel and Power Steering Fluid



Diesel Fuel and Windshield Washer Fluid



Diesel Fuel and Water



Diesel Fuel and Gasoline

Recommendations / Instructions

If the above types of contamination are found, be sure to thoroughly inspect, clean and flush the fuel system. Refer to SI for fuel system cleaning procedures.

Warranty Information

This PI is being published to help the technician to be able to identify the signs of contamination in Diesel fuel. If you see evidence of contamination take appropriate measures to ensure that all of the contaminated fuel is removed from the vehicle. For fuel testing, please refer to the latest version of [PIT3173: Information On Testing Centers for Fluid Contamination Analysis](#). Any components that have failed as a result of contamination should **NOT be covered by warranty**

Please see New Vehicle Limited Warranty:

Damage Due to Contaminated or Poor Quality Fuel

Poor fuel quality or incorrect fuel may cause drivability problems such as hesitation, lack of power, stalling, or failure to start. It may also render gauges inoperable or degrade functionality for components such as spark plugs, oxygen sensors and the catalytic converter. Damage from poor fuel quality, water contamination, or incorrect diesel fuel or gasoline may not be covered.

For more on information on if the repairs should be covered under warranty review with your District Manager of Aftersales.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.



GENERAL MOTORS