



# Preliminary Information

## PIP5846 Diagnostic Tip for Duramax Diesel Hydro locked Engine.

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Silverado 2500HD/3500HD	2022	NF233624	N1211255	6.6 L5P	All
GMC	Sierra 2500HD/3500HD	2022	NF233624	N1211255	6.6 L5P	All
Chevrolet	Silverado 4500HD, 5500HD and 6500HD	2022	NH378231	NH497303	6.6 L5D	All

Involved Region or Country	North America
Condition	<p>Customers may have a concern of:</p> <ol style="list-style-type: none"> <li>1. The engine does not crank.</li> <li>2. The F8UD starter fuse may be open.</li> <li>3. The engine is hydro-locked.</li> <li>4. There may be coolant in the engine oil.</li> <li>5. The oil level may be overfilled.</li> <li>6. The Malfunction Indicator Light (MIL) may be illuminated.</li> <li>7. The "Low Coolant" light may be on.</li> <li>8. There may be excessive pressure in the cooling system.</li> <li>9. There may be discolored coolant in the coolant surge tank.</li> <li>10. There may be coolant in the exhaust system causing an exhaust aftertreatment related Diagnostic Trouble Code (DTC).</li> </ol>
Cause	This condition may be caused by coolant entering one or more cylinders causing a hydro-lock.

Inspect the engine for a hydro-locked condition.

Here are some good indicators:

1. Complaint of a hard crank at first and then resumes normal crank speed.
2. The F8UD starter fuse is open (L5P) or the starter or starter cables may be overheated (L5D).
3. NOx sensor 1 may be wet with coolant.

**NOTE: "Tar" looking soot or humidity that does not smell like coolant does not qualify.**

4. The engine oil may be overfilled and coolant in the engine oil.
5. "Washed" looking glow plug tips.
6. There may be coolant in a combustion chamber.

If you find any three of the above indicators the engine is likely hydro-locked.

Version History

Version	1
Modified	03/24/2022 - Created on



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