

August Edition of Natural Gas Engine Tech Talk

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New this Month: Valvoline Premium Blue One Solution Gen2 Approved for 1500hr ODI on ISL G / L9N

Valvoline Inc. (NYSE: VVV), a U.S.-based, leading worldwide supplier of premium branded lubricants and automotive services, announced the launch of Valvoline™ Premium Blue One Solution™ Gen2 — the brand's second iteration of its heavy duty engine oil first released in 2018. The new Premium Blue One Solution Gen2 was developed in partnership with Cummins Spark-Ignited (SI) Engineering and with the end-user in mind. Approved for use in multiple heavy duty, medium-duty, and light-duty engine types, it provides improved oxidation and thermal stability.

Cummins has approved 1500 hour oil drain intervals on the ISL G / L9N using Premium Blue One Solution Gen2 engine oil. Cummins must approve any extended oil drain intervals on engines covered by Cummins base and extended warranty. Read the full release [here](#).



Reminder: How to Avoid Excessive Oil Consumption

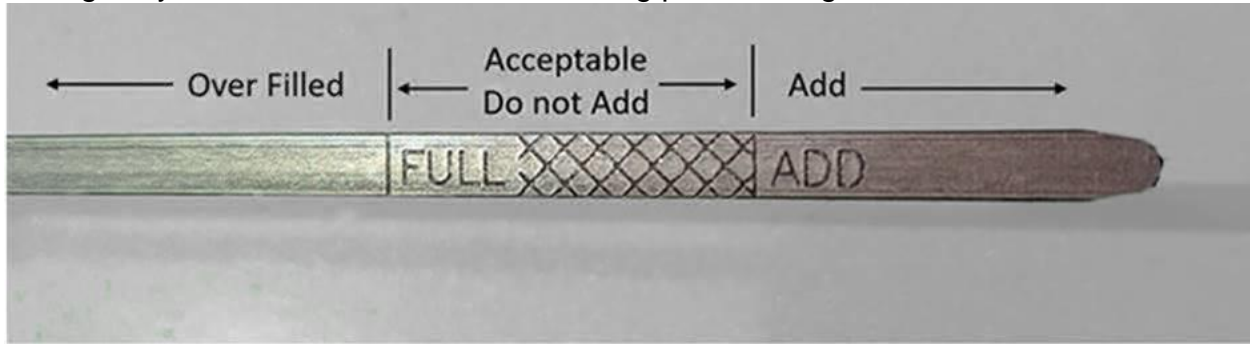
For an accurate measurement of engine oil level, the engine should be shut down for at least 15-30 minutes to allow oil drain back to the sump.

Daily Oil Level Check and Top off recommended best practices.

The Cummins Operation and Maintenance manuals recommend checking the engine oil level daily. To accurately check the level, below are some tips:

- Ensure the vehicle is parked on level ground.
- Allow 15+ minutes for the oil to drain back to the oil pan before checking the level. In testing we have seen it take 20-30 minutes for the oil level to stabilize in the pan. The oil level measurement can be off by up to 1 gallon if adequate time is not given.
- The dipstick needs to be fully inserted and locked prior to reading to accurately gauge the oil level.
- Only add oil if the level is below the ADD line.
- Overfilling can cause oil consumption.
- As long as the oil level is between the FULL and ADD marks, oil should not be added.

During daily oil level checks, use the following photo as a guide.



Technical Resources:

Jason Bauer's Maintenance Tip Videos – Click Links Below

[Maintenance Intervals](#)

[Natural Gas Engine Oil](#)

[Ignition Coil Maintenance](#)

[Fuel Filter Maintenance](#)

[Spark Plug Maintenance](#)

[Tips for Success](#)

Minimum methane number requirement for Cummins Natural Gas Engines:

C Gas Plus, B Gas Plus, and L Gas Plus	65
ISL G, ISX12 G, ISB6.7 G, and all 2018 engines	75

GHG Emissions Calculator:

<https://www.cumminswestport.com/greenhouse-gas-calculator>

Fuel Quality Calculator:

<https://www.cumminswestport.com/fuel-quality-calculator>

Recommended Maximum GVW for Best Performance & Efficiency:

B6.7N	33,000lbs
L9N	66,000lbs
ISX12N	80,000lbs

ISB6.7 G & B6.7N Maintenance Intervals	
	Hours
Oil & Filter* - CES 20092	750
Conventional Coolant Replacement	1,500
Hybrid Coolant Replacement	4,000
OAT Coolant Replacement	6,000
Spark Plugs	750
Fuel Filter	1,000
Valve Adjustment	1,500
Crankcase Breather	2,000
Ignition Coil Extension	5,000

ISL G & L9N Maintenance Intervals	
	Hours
Oil & Filter* - CES 20092	1,000
Standard Coolant Filter	500
Extended Service Interval Filter	4,000
Conventional Coolant Replacement	1,500
Hybrid Coolant Replacement	4,000
OAT Coolant Replacement	6,000
Fuel Filter	1,000
Valve Adjustment	1,000 / 2,000
Spark Plugs	1,500
Crankcase Breather Filter - L9N	2,000
Standard Coolant	2,000
Ignition Coil Extension	10,000

ISX12 G & ISX12 N Maintenance Intervals	
	Hours
Oil & Filter* - CES 20092	1,000
Spark Plugs	1,000
Standard Coolant Filter	500
Extended Service Interval Filter	4,000
Conventional Coolant Replacement	1,500
Hybrid Coolant Replacement	4,000
OAT Coolant Replacement	6,000
Valve Adjustment	1,000 / 3,000
Ignition Coil Extension	10,000
Crankcase Breather Filter - ISX12N	10,000

ISB6.7 G & B6.7N Maintenance Part Numbers		
Component	Cummins Part #	Fleetguard Part #
Oil Filter	4367100	LF14000NN
Fuel Filter	3607140	NG5900
Crankcase Filter	5288839	
Spark Plug Kit**	4376564	
Ignition Coil Extension	5402163	

**Kit includes spark plug and pregreased boot

ISL G & L9N Maintenance Part Numbers		
Component	Cummins Part #	Fleetguard Part #
Oil Filter	4367100	LF14000NN
Fuel Filter	3607140	NG5900
Crankcase Filter*	5288839	
Spark Plug Kit**	5473009	
Ignition Coil Extension	5265337	

* If Equipped

**Kit includes spark plug and pregreased boot

ISX12 G & ISX12 N Maintenance Part Numbers		
Component	Cummins Part #	Fleetguard Part #
Oil Filter	4367100	LF14000NN
Fuel Filter*	3607140	NG5900
Crankcase Filter*	4389517	CV53009
Spark Plug Kit**	4309391	
Ignition Coil Extension	4387015	

*If Equipped

**Kit includes spark plug and pregreased boot

CES 20092 Oil Provider Recommendations

For the latest list of recommended oil providers click [here](#).