

QUICK REFERENCE GUIDE



Maintenance and operation B6.7N

Important characteristics of this engine are:

- Spark-Ignited 6.7L natural gas engine
- New Engine Control Module (ECM) 2380 for faster processing
- Waste-gated turbocharger
- Exhaust Gas Recirculation (EGR)
- Maintenance-free three-way catalyst aftertreatment
- On-board diagnostics

MAINTENANCE INTERVALS

	Hours
Oil and oil filter - CES 20092	750
Spark plugs	750
Fuel filter	1,000
Valve adjustment	1,500
Crankcase breather	2,000
Ignition coil extension	5,000

MAINTENANCE PART NUMBERS

Component	Cummins part #	Fleetguard part #
Oil filter	3937736	LF3970
Crankcase filter	5288839	x
Fuel filter	3607140	NG5900
Ignition coil extension	5402163	x
Spark plug kit**	4376564	x

**Kit includes spark plug and pre-greased boot

SPARK PLUG GAP SIZE

New	Min	0.330 mm	(0.013")
	Max	0.381 mm	(0.015")
Used	Min	0.330 mm	(0.013")
	Max	0.560 mm	(0.022")

Note: Extending the oil and filter change interval beyond the recommended limits will decrease engine life due to corrosion, deposits and wear.

Electronic features

For best fuel economy and performance, take advantage of the following electronic engine features, setting the parameters to meet your needs:

- Road Speed Governor
- Cruise Control
- Gear Down Protection

For guidance in parameter settings:

<https://www.cummins.com/support/digital-products-and-services-support/powerspec-support>

Maintenance information

CAUTION

If your product is equipped with a component or accessory not manufactured or supplied by Cummins Inc., see the maintenance recommendations provided by the component manufacturer.

Natural Gas Oils complying with CES 20092 must be used. 10W30 or 15W40 is recommended.

Cummins Inc. bases the lubricating oil drain specifications on lubricating oil age and contamination level. This contamination occurs in all engines, at varying rates, regardless of design.

Maintaining the correct lubricating oil and lubricating oil filter change intervals are vital factors in preserving the integrity of an engine. Lubricating oil filters must be changed when the lubricating oil is changed.

Drain the fuel filter and check the oil pressure, coolant temperatures and other parameters daily via the OEM instrument panel or gauge cluster to make sure they are operational. Check the instrument panel regularly for any alarm messages. Take appropriate action to rectify alarm condition or contact your nearest authorized Cummins service and support location.

Lubricating oil system

SPECIFICATIONS

Oil pressure

At low idle (minimum allowed)	69 kPa (10 Psi)
At rated speed (minimum allowed)	207 kPa (30 Psi)
Oil regulating valve opening pressure range	448 kPa (65 Psi) to 517 kPa (75 Psi)
Oil filter differential pressure to open bypass	345 kPa (50 Psi)

Oil capacity of standard engine (standard oil pan)

Pan only	14.2 liters (15 qt)
Total system	16.7 liters (17.6 qt)
High to low (on dipstick)	1.9 liters (2 qt)
Lubricating oil filter capacity	0.950 liters (1 qt)

Oil capacity (standard oil pan) - optional

Pan only	17.2 liters (18.5 qt)
Total system	19.7 liters (20.8 qt)
High to low (on dipstick)	2.8 liters (3 qt)
Lubricating oil filter capacity	0.950 liters (1 qt)

Winterfronts

Minimum allowed air passage area	387 cm ² (60 in ²)
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Cooling system

SPECIFICATIONS

Coolant capacity (engine only)	11.8 liters (12.5 qt)
Standard modulating thermostat range	86 To 97°C (187 to 207°F)
Maximum allowed operating temperature	107°C (225°F)
Minimum recommended operating temperature	71°C (160°F)
Minimum recommended pressure cap	103 kPa (15 Psi)
Minimum fill rate (without low-level alarm)	11 liters/min (3 gpm)
Maximum deaeration time	25 minutes

Fuel system for Cummins natural gas engines

SPECIFICATIONS

Cummins Engineering Standard CES 14624
Minimum Methane Number: 75
Minimum Lower Heating Value: 44,194 kJ/kg (19,000 BTU/lbm)

Note: Both the methane number and higher heating value criteria must be met to pass a given fuel.



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Bulletin 5600485 Produced in U.S.A. Rev. 6/25
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