

Every Alternative Update

Ready for 2010

With so much talk on the upcoming 2010 emissions regulations, customers may be wondering what changes are coming to the Cummins Westport (CWI) ISL G natural gas engine. The answer is simple: None.

- Low Emissions & Simple Aftertreatment

In fact, the ISL G natural gas engine met 2010 EPA & California Air Resources Board (CARB) emissions standards when it launched in 2007 – three years ahead of schedule. Not only does it already meet 2010 regulated emissions, a recent in-use emissions test on an urban transit bus running with an ISL G, recorded emissions which were significantly lower than the 2010 EPA and CARB Heavy Duty in-use emission regulations.

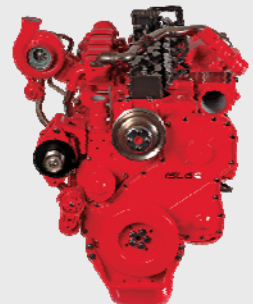
www.cumminswestport.com/corporate/news.php

The ISL G is also capable of operating on up to 100% Biomethane – renewable natural gas made from biogas or landfill gas which has been upgraded to pipeline and vehicle fuel quality. This results in even lower greenhouse gas emissions (GHGs).

The ISL G offers power & reliability along with quiet & clean operation. It does this by using stoichiometric combustion with cooled Exhaust Gas Recirculation (EGR) technology and a simple, passive, maintenance-free Three Way Catalyst (TWC) – no Selective Catalytic Reduction (SCR) is needed and there are no exhaust-system related maintenance costs. A CWI ISL G engine purchased in 2010 will be the same as one bought today.

- Economics & Environment

The ISL G has demonstrated a 5% fuel economy improvement over the C Gas Plus engine and other lean-burn engines. This improved efficiency and reliability can lead to lower total operating costs. Natural gas and Biomethane are plentiful and locally available. Fuel cost savings, reductions in harmful emissions, less reliance on oil, and reliable performance – benefits worth looking into!



Events

CWI participates in a variety of tradeshow & events each year to meet customers & talk about the benefits of our natural gas engines for the truck, refuse & bus markets. In the first half of 2009, CWI staff attended several key events:

- March - Mid-America Trucking Show in Louisville, KY
- April - Alternative Fuels & Vehicles Conference & Expo in Orlando, FL
- April - 10th Intl. NGV & Gas Station Equipment Exhibition & Show in Beijing, China
- May - American Public Transportation Conference & Roadeo in Seattle, WA

Look for CWI at these upcoming events:

- June – Waste Expo in Las Vegas, NV
- July - School Transportation News Expo in Reno, NV
- Sept - Buscon in Chicago, IL & Wastecon in Long Beach, CA.

Expanded Protection Options for the Cummins Westport ISL G

In addition to 4 and 5 year 150,000 mile automotive coverages, Cummins Westport is pleased to announce three upgraded extended coverage offerings on CWI Protection Plan II for the ISL G for automotive applications. The new extended coverage options are:

- 5 Years / 200,000 miles
- 5 Years / 300,000 miles
- 6 Years / 250,000 miles

These comprehensive extended coverage offerings provide the flexibility customers demand, and demonstrate our confidence to stand behind our products.

Service Tips for Natural Gas Engines

■ Oil & Coolants

Engine Oil: Engine oil for natural gas engines is different than for diesel engines and careful attention must be paid to the oil specifications. A sulfated ash limit of 0.6 % has been placed on all engine lubricating oil recommended for use in CWI engines. Higher ash oils can cause valve

and/or piston damage and lead to excessive oil consumption and degradation of the catalyst.

B5.9G, B Gas Plus, B Gas International, B5.9LPG, B LPG Plus, C8.3G, C Gas Plus, L Gas Plus, and ISL G engines must use oil that conforms to Cummins Engineering Standards (CES) 20074. This standard will be identified on the supplier's oil packaging. If in doubt whether the oil meets Cummins specifications, contact the supplier to obtain a copy of the Cummins registration letter that certifies the oil meets specifications. Do not use diesel engine oil or L10G engine oil in the above listed engines or damage to the engine will occur.

Change Intervals: Correct engine lubricating oil and filter change intervals must be maintained. These intervals are outlined in the engine maintenance schedule. For further details, refer to Cummins Engine Oil Recommendations, Bulletin 3810340.

Coolant: CWI alternative fuel engines require the use of a fully formulated antifreeze or coolant containing a pre charge of Supplemental Coolant Additives (SCA). The antifreeze or coolant must meet Cummins Engineering Specification (CES) 14603 as well as the specifications outlined in The Maintenance Council Recommended Practice (RP) 329 (ethylene glycol) or RP 330 (propylene glycol). This coolant is the same coolant required for Cummins diesel engines.

The use of fully formulated antifreeze or coolant significantly simplifies cooling system maintenance. CWI recommends using Fleetguard ES Compleat from Cummins Filtration. Further information can be found in the operations and maintenance manuals for each engine.

For further information on engine oil or coolant requirements for CWI engines, contact your local Cummins distributor.



Cummins Westport
101 - 1750 West 75th Avenue
Vancouver, BC V6P 6G2 Canada

Phone: 1-604-718-8100
www.cumminswestport.com
©2009 Cummins Westport Inc.
June 2009