SAE Power Certification
Form J2723 B

Manufacturer Name	GM Powertrain
Address:	30003 Van Dyke Avenue
City:	Warren
State	MI
Country:	United States
Postal Code	48090-9060
Engine:	LZG
Type of Certification:	Family Of Engines
Model Year & Vehicle Application(s).	2008 LZG GMX-211 / 231 (Impala / Monte Carlo)
Test Standard:	J1349:Aug2004
Test Location:	WW 03 NORTH
Engine Serial Number:	P8Z8G301AJ
Test/Run Number:	LZGTS1AA
Test Date:	12/15/2006

RESULTS:

The engine described herein was tested on 12/15/2006 according to the requirements prescribed in J1349:Aug2004, Engine Power Test Code in the presence of a qualified SAE Witness, and was determined to produce the following results:

Parameter	Rated Speed	Rated Output	Measured Speed	Measured Output	% Difference
Power (hp)	5600	233	5600	232.5	0.2
Torque (lb-ft)	4000	240	4000	238.7	0.5

SAE Certified Witness	
Date	

APPROVALS:

The manufacture declares that the engine tested for this report is representative of engines in series production. The manufacturer further declares that the performance of engines in series production will characteristically fall within 2% of the rated torque and power values indicated on this report.

Name:	[illegible]
Title:	Asst. Chief Engineer
Date:	01/18/2007

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Full document details: SAE CPGM2_08LZGIMPA

GM Powertrain

General Motors Corporation
GM Technical Center
Bldg 2-7 Vehicle Performance Center
Mail Code 480-712-140
30003 Van Dyke, Ave
Warren, MI 48090-960

January 17, 2007

Dear Gary:

In line with previous conversations that you had with Dave Lancaster, we are asking that the current power certification for the 2007 LZ8 engine be extended to cover the 2008 LZG engine. We are making this request because the LZG is essentially identical to the previously certified LZ8; the exception being the injectors used for E85 compatibility with the LZG.

As confirmation, we ran the 2008 LZG 3900 engine according to J1349. The LZG will be termed carryover for 2008 because:

- Peak power and peak torque measured using the 2008 vehicle spark data falls within 1% of the 2007 LZ8 SAE -Certified values, as shown in Table 1 below.
- In-vehicle spark data as a function of engine speed for 2007 and 2008 are similar and judged to be within test repeatability.

Table1.

Advertised Power Rating – 2007 3.9L LZ8 GMX-211/231 vs. 2008 3.9L LZG GMX-211/231

Vehicle Application	Engine RPO	Parameter	Rated Speed (rpm)	Rated Output	Measured Speed (rpm)	Measured Output	% Difference
2007 GMX-211 / 231	LZ8	Power (hp)	5600	233	5600	230.9	.9
		Torque (lb-ft)	4000	240	4000	238.2	.7
2008 GMX-211 / 231	LZG	Power (hp)	5600	233	5600	232.5	.2
		Torque (lb-ft)	4000	240	4000	238.7	.5

Please feel free to contact us if you have any questions.

Regards

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