

SAE Power Certification
SAE J2723 Amendment to Certification

SAE J1349
Certified Power™

Manufacturer Name	General Motors Powertrain
Address:	895 Joslyn Ave
City:	Pontiac
State	Michigan
Country:	United States
Postal Code	48340
Engine:	LS7
Type of Certification:	Single Engine Certification
Model Year & Vehicle	2011 Chevrolet Corvette ZO6 LS7
Application(s).	
Test Standard:	J1349:Mar2008
Test Location:	
Engine Serial Number:	
Test/Run Number:	
Test Date:	

DESCRIPTION OF CALIBRATION OR HARDWARE CHANGES:

In 2006 the GMX-245 LS7 was SAE rated at 470 ft-lbs @ 4800 RPM and 505 Hp @ 6300 rpm.

For 2011 the exhaust was slightly modified for improved acoustic wave mixing and a change in backpressure is not expected from these slight changes. The 2011 LS7 will be rated at the same power and torque levels as the 2006 certification.

ORIGINAL ENGINE MODEL YEAR & CERTIFICATION DATE: MY 2006, Cert Date: March 14th, 2005

RESULTS:

The engine, when tested or isoplotted with the calibration or hardware changes above made the following measured output and has been determined to product the following rated output:

Parameter	Rated Speed	Rated / Net Output	Measured Speed	Measured Output	% Difference
Net Power (hp)	6300	505	4800	505	0.0%
Torque (lb-ft)	4800	470	4400	470	0.0%

SAE Certified Witness:
 Date:

APPROVALS:

The manufacture declares that the engine test or isoplot for this report is representative of engines in series production. The manufacturer further declares that the performance of engines in series production will produce power and torque values that are at least 98% of their certified values.

Name: Jordan Lee
 Title: CHIEF ENGINEER
 Date: 7.13.10



Date: March 29th 2010
To: Gary Pollak
Subject: 2011 LS7 GMX-245 to be rated the same as model year 2006

Gary:

In 2006 the GMX-245 LS7 was SAE rated at 470 ft-lbs @ 4800 RPM and 505 Hp @ 6300 rpm. For 2011 the exhaust was slightly modified for improved acoustic wave mixing and a change in backpressure is not expected from these slight changes. I would like to rate the 2011 LS7 at the same power and torque levels as the 2006 certification.

Thank you for your assistance in this matter.

James Perander
Lead Dynamometer Development and Calibration Engineer for the LS7 Engine



Documents
Document Sharing Hub

**SAE Power Certification
Form J2723 A**

**ENGINE DESCRIPTION
(As Tested):**

Displacement:	7008 cc
Configuration/Number of Cylinders:	90° V-8
Valve Train:	2V CIB
Type:	Gasoline
Combustion Cycle:	Four Stroke
Pressure Charging:	Naturally Aspirated
Charge Air Cooling:	None
Bore:	104.775 mm
Stroke:	101.6 mm
Cylinder Numbering Convention	Left bank 1-3-5-7, right bank 2-4-6-8 (front-to-back)
Firing Order:	1-8-7-2-6-5-4-3 (90° Even Fire)
Compression Ratio:	11.0 :1
Fuel System:	Port Fuel Injection
Fuel System Pressure	400 kPa (Nominal)
Ignition System:	Electronic spark ignited coil near plug
Knock Control:	Dual flat response knock sensors
Intake Manifold:	Composite manifold
Exhaust Manifolds:	Hydroformed individual tube headers with inline collector flange
Cooling System:	Forced flow liquid cooling
Coolant Liquid:	50% water and 50% ethylene glycol (by volume)
Thermostat:	Inlet side – blocked open
Cooling Fan	Electric Motor Driven
Lubricating Oil:	SAE 5W30 Synthetic
Fuel:	Premium Required
Fuel Shut Off Speed:	7100 RPM