



GM Powertrain

July 8, 2015

Gary Pollak
SAE
400 Commonwealth Drive
Warrendale, Pa 15096

Gary,

For 2016 MY, General Motors will introduce the Chevrolet Impala Sedan with a 2016 MY LCV engine. This is the same Regular Production Option (RPO) LCV engine previously SAE certified via witness testing for the 2013 MY Chevrolet Malibu. The induction and exhaust restriction levels have been reflected in the attached SAE power rating. The SAE rating was generated from the 2013 MY Malibu LCV via IsoPower per the power and torque plots shown below.

Please also note that this information is being restricted as far as release to the public until after August 15, 2015

Regards

A handwritten signature in black ink that reads "JULIAN VELOSA" followed by a stylized flourish.

Julian Velosa
Development Validation Systems Manager
LGE Engines

Power

Manufacturer Name	General Motors Powertrain
Address:	895 Joslyn Rd
City:	Pontiac
State:	MI
Country:	USA
Postal Code	48340
Engine:	ECOTEC Gen2 LCV
Type of Certification:	Single Engine Certification
Model Year & Vehicle	2016 LCV / GMX352
Application(s):	Chevrolet Impala
Test Standard:	J1349: Sep2011, SAE
Test Location:	IsoPower Data - Based on 2013 LCV / GMX351 (Chevrolet Malibu) Test conducted in Pontiac Dyno Lab Test Cell D221
Engine Serial Number:	IsoPower Data - Based on 2013 LCV / GMX351 (Chevrolet Malibu) SAE Witness Testing of P3CVG127
Test/Run Number:	IsoPower Data - Based on 2013 LCV / GMX351 (Chevrolet Malibu) SAE Witness Testing of engine P3CVG127 2011-11-07-8842 - E_F4_ENG_J1349.119039
Test Date:	16Nov'11

RESULTS:

The engine described herein was tested on 16Nov'11 according to the requirements prescribed in J1349: Sep2011, SAE, 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 [kW / hp]	6300	146.9 / 197.0	6300	146.10 / 195.92	0.548
Torque [Nm / lb-ft]	4400	258.9 / 191.0	4400	258.50 / 190.66	0.155

* IsoPower Generated Data
** Accounted for Accessory Drive Losses

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: Julian Velosa A
Title: Assistant Chief Engineer
Date: 7/8/15

Parameter	Engine Speed [RPM]	Total Air Flow [g/s]	Induction Restrictions [kPa]	Total Exhaust Flow [g/s]	Exhaust Restrictions [kPa]
2013 LCV Malibu	6200	150	3.3	162	69.27
2016 LCV Impala	6200	150	3.3	162	67.34

