



*Global Propulsion Systems*

*General Motors  
Global Propulsion Systems  
Engine Engineering – Bldg C  
895 Joslyn Ave  
Pontiac, MI 48340*

May 22, 2018

Mr. Gary Pollak  
SAE  
400 Commonwealth Drive  
Warrendale, PA 15096

Gary,

For the 2019 Model Year, General Motors will introduce the T1XX Chevrolet Silverado / GMC Sierra application with the Regular Production Option (RPO) LV3 4.3L V6 engine. This is the same RPO LV3 engine previously SAE certified via witness testing for the 14 MY K2XX Chevrolet Silverado / GMC Sierra. The induction restriction and backpressure levels are carry-over and power and torque remain carry-over.

Also for the 2019 MY we will introduce the T1xx application with the L82 and L84 5.3L V8 Engines. These engines are similar to the L83 5.3L V8 engine previously SAE certified via witness testing for the 14 MY K2XX Chevrolet Silverado / GMC Sierra. The induction/exhaust has been slightly revised for the for the T1xx application. The RPO's have been updated to reflect an E85 capable version (L82) and a non E85 capable version (L84) of the 5.3L engine. The induction restriction and backpressure levels vary slightly (less than 0.1% horsepower impact) from the original test, so power and torque remain carry-over from the L83.

Finally, for the 2019 MY, we will introduce the T1xx with the L87 6.2L Engine. The L87 is similar to the L86 6.2L V8 engine previously SAE certified via witness testing for the 14 MY K2XX Chevrolet Silverado / GMC Sierra. The RPO has been updated to L87 to reflect it will not be marketed as E85 capable. The induction restriction and backpressure levels are slightly improved (less than 0.1% horsepower impact) from the original test, so power and torque remain carry-over from the L86.

Let me know if you have questions or require anything further in order to process this application for certification.

Thanks,

Brad Sevald  
Development & Validation System Manager  
Small Block V6 & V8 Engines  
Email: Brad.Sevald@gm.com  
Phone: 248-830-8526

**Power**

Manufacturer Name: General Motors Powertrain  
 Address: 895 Joslyn Rd  
 City: Pontiac  
 State: MI  
 Country: USA  
 Postal Code: 48340  
 Engine: Small Block V8 L82 (E85 Capable) / L84 (Non-E85) T1xx  
 Type of Certification: Single Engine Certification  
 Model Year & Vehicle: 2019 Chevrolet Silverado and GMC  
 Application(s): Sierra Light Duty; E10 (87 octane)  
 Test Standard: J1349: Sept2011, SAE, Non-standard test  
 Test Location: Pontiac Dyno Lab Test Cell D204  
 Engine Serial Number: P483G526AA  
 Test/Run Number: 2012-12-03-3737.2621  
 E\_F5\_ENG\_J1349.150513  
 Test Date: 30Jan13

**RESULTS:**

The engine described herein was tested on 30Jan13 according to the requirements prescribed in J1349: Sept2011, SAE, Non-standard test, 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        | 355            | 5600           | 353.8           | 0.33917467   |
| Torque (lb-ft) | 4100        | 383            | 4100           | 382.46          | 0.14119124   |

\* - Determined through ISO Power

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 be at least 98% of the rated torque and power values indicated on this report.

Name:  
Title:  
Date:

JORDAN LEE J. Lee  
CHIEF ENGINEER  
5-19-18