

February 2, 2017

General Motors Global Propulsion Systems
M/C 483-710-270
850 Glenwood Avenue
Pontiac, MI 48340-2920

Gary Pollak
SAE
400 Commonwealth Drive
Warrendale, PA 15096

Gary,

For Model Year 2018, General Motors will offer the LHN engine in the Buick LaCrosse Passenger Car. The LHN is same as the Regular Production Option (RPO) LCV engine previously SAE certified via witness testing for the Model Year 2017 GMC Acadia. The restriction levels of the LaCrosse have been reflected in the attached SAE Power Rating. The SAE rating was generated from the 2017 GMC Acadia using isopower per the torque and horsepower plots, also attached.

Please accept this as an application for SAE certification of the 2018 Buick LaCrosse power and torque performance.

Thank you,



Joseph Kelly
Development Validation System Manager
Large Gas Engines



GENERAL MOTORS



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SAE J2723 AUG2007
SAE POWER CERTIFICATION FORM J2723 B

SAE Power Certification Form J2723 B J2723 Aug2007		SAE J1349 Certified Power™			
Manufacturer Name	General Motors Global Propulsion Systems				
Address:	850 Glenwood Ave				
City:	Pontiac				
State:	MI				
Country:	USA				
Postal Code:	48340				
Engine:	ECOTEC Gen2 LHN				
Model Year & Vehicle:	Application(s):				
	2018 LHN / E2LB Buick Lacrosse				
Test Standard:	J1349:Sep2011				
Test Location:	IsoPower Data - Based on 2017 LCV / C1UG (GMC Acadia) Test conducted in Pontiac Dyno Lab Test Cell D231				
Engine Serial Number:	IsoPower Data - Based on 2017 LCV / C1UG (GMC Acadia) SAE Witness Testing of N7CVZ941				
Test/Run Number:	IsoPower Data - Based on 2017 LCV C1UG (GMC Acadia) SAE Witness Testing of engine N6CVZ941				
RESULTS:					
The engine described above was tested on 17Dec15 according to the requirements prescribed in J1349:Sep2011, Engine Power Test Code in the presence of a qualified SAE Witness. The IsoPower results below are based on that previously certified test.					
Parameter	Rated Speed	Rated Output	Measured Speed	Measured * Output **	% Difference
Power [kW/hp]	6300	144.3/193.5	6300	144.3/193.5	0.00%
Torque [Nm/lb-ft]	4400	253.5/187.0	4400	253.5/187.0	0.00%
				*Determined via isopower ** Accounted for Accesory Drive Losses	
SAE Certified Witness					
Date					
APPROVALS:					
General Motors Global Propulsion Systems declares that the engine tested for this report is representative of engines in series production. General Motors Global Propulsion Systems 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:	JULIAN VELOSA A				
Title:	Assistance Chief Engineer				
Date:	2/2/17				
Authorization Date:					