

SAE J2723 AUG2007



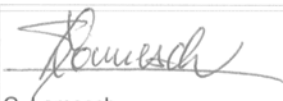
**SAE Power Certification
Form J2723 B**

Manufacturer Name	General Motors Powertrain
Address:	895 Joslyn Ave.
City:	Pontiac
State	MI
Country:	United States
Postal Code	48340-2920
Engine:	2.5L LCV Ecotec
Type of Certification:	Single Engine Certification
Model Year & Vehicle Application(s).	2013MY Cadillac ATS; (Via ISOPower certification process)
Test Standard:	J1349: Sep2011, SAE
Test Location:	Pontiac Dyno Lab Test Cell D221
Engine Serial Number:	P3CVG127
Test/Run Number:	SAE_J1349.474
Test Date:	16Nov '11

RESULTS:

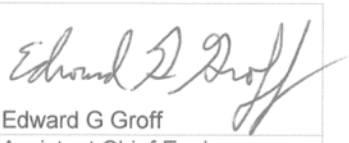
The engine described herein was tested on 16Nov '11 according to the requirements prescribed in J1349: Sep2011, SAE, Engine Power Test Code in the presence of a qualified SAE Witness, and was determined to produce the following results:

Parameter	Rated Speed	Rated Output	Measured Speed	Measured Output	% Difference
Power (hp)	6,300 rpm	202	6300	201.10	0.45%
Torque (lb-ft)	4,400 rpm	191	4400	190.27	0.38%

SAE Certified Witness 
Date 26-Jan-12

APPROVALS:

General Motors Powertrain declares that the engine tested for this report is representative of engines in series production. General Motors Powertrain 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: Edward G Groff
Title: Assistant Chief Engineer
Date: 19-Jan-12

WOT ENGINE POWER PLOT (as tested)



Enter AIS Subsystem Pressure Loss (kPa)	Enter Pre-CCC Total Exh Back Pressure (kPa)
2.10	46.4
@ Air Mass Flow Rate (g/s)	@ Exhaust Mass Flow Rate (g/s)
140.0	165.0

AIS SSPL @ 140 g/s (kPa)	Stag BP @ 165 g/s Exh Flow (kPa)	SAE Net Power (hp)_PredictedValue
2.10	46.36	201.10

Note :

Values are normalized to 165 g/s exhaust flow

The above table / function can only interpolate data, if data entered is beyond the bounds of data in sheet "Table" it gives an error "9999" for power prediction

Peak Power Calculation (ALT Loss included)		
Speed	Rated Power BHP	
rpm	BHP	
6300	201.1	2.1 KPa IAS loss

Peak Torque Calc (ALT Loss included)		
Speed	Rated Torque	
rpm	lbf-ft	
4400	191.00	

LCV Gamma Inlet and Exhaust Restriction Sensitivity Study
GT-Power Engine Simulation - 6300 RPM
GM Powertrain December 02, 2011
INCLUDES ALTERNATOR LOSSES ONLY

