Dyno Tests Analyzed for Speed and Foot/Lbs. Torque for the 2007 Chevy Duramax at Fitzgibbons Performance

The Fitzgibbon Performance Center released the Excel Files for the Dyno Tests they performed on the 2007 Chevy Silverado Duramax on June 6, 2017. The Excel files for the Performance Pulls for the Baseline (Test 99) and the Product (Test 101) were analyzed and charted in a table.

The categories in the tables include the Line Number from the Excel Spreadsheet, Vehicle Speed, Vehicle RPM's, and Vehicle STP Ft.Lbs.Torque. A table is charted and provided for the Baseline (Dyno Pull without the Product) and a table showing the results with the product.

After studying the data from the Horsepower Pulls and the Road Tests (over 25,000 lines of data per test) it was determined to pair up the speed and the STPLbsFT Torque from the Horsepower Pulls. The line data was taken from the Baseline Test (Test99) and the Product Pull Test (Test101).

The tables of data are centered on the speed of the vehicle and the lines of data that relate to that speed. This methodology of centering on a single individual speed does three things. Number one it limits the amount of line data related to a single speed as the vehicle accelerates. This individual focusing on a single speed also transfers over to the other Horsepower Runs when comparing the data collected. The data is taken from the line data as the vehicle accelerates to and passes through the set speed point.

Thirdly, the single speed set point only occurs once as the vehicle accelerates and therefore only allows one line of data to document RPMs, Line# (For Time and comparison pairing), Speed, and STP FT LBS Torque.

Table 1 is data taken from the Baseline Horsepower Pull designated as Test99 by the technician at Fitzgibbon Performance. The Excel files show column (AC) to be speed of the vehicle. Column (AL) is the data for the RPM's. Column (AY) is the figure for STP FT-LBS Torque related to the Speed Set Point.

The tables constructed consist of data retrieved from the Excel files related to the particular Fitzgibbon Performance Dyno Tests of the Baseline and the Product.

Each individual line of data consists of columns of figures designated with Pairs of letters from the Alphabet as related to the Excel files.

Baseline Test Showing Speed vs. Ft.-Lbs. Torque

File #	AC Speed MPH	AY Torque Ft.-LBS.	Line #	AL Engine RPM's
Test 99	56	264.3	4	2305
Test 99	60.4	286.6	15	2482
Test 99	70	560.3	30	2893
Test 99	75	390.6	38	3087
Test 99 **	70.8	563.4	31	2925

** Maximum Ft.-Lbs Torque for this Test

Product Test Showing Speed Vs. Ft. Lbs. Torque

File #	AC Speed MPH	AY Torque Ft.-Lbs.	Line #	AL Engine RPM's
Test 101	56.2	478.7	3	2313
Test 101	60.1	552	8	2483
Test 101	69.9	629.6	19	2892
Test 101	75.2	625.8	25	3116
Test 101 **	80.4	682	32	2654

**** Maximum Ft.-Lbs. Torque for this test**

All the Excel Files from Fitzgibbon Performance are available for viewing if you would like them.

Let me know if you have any questions.

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