Service Bulletin

File in Section: -
Bulletin No.: 16-NA-199
Date: June, 2016

INFORMATION

Subject: **A New Way to Look at NOx Sensor Readings and Exhaust Temperature During a DPF Regeneration or a Reductant Fluid Quality Test**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Cruze	2014	2015			2.0L Diesel (LUZ)	

Involved Region or Country	North America

Introduction

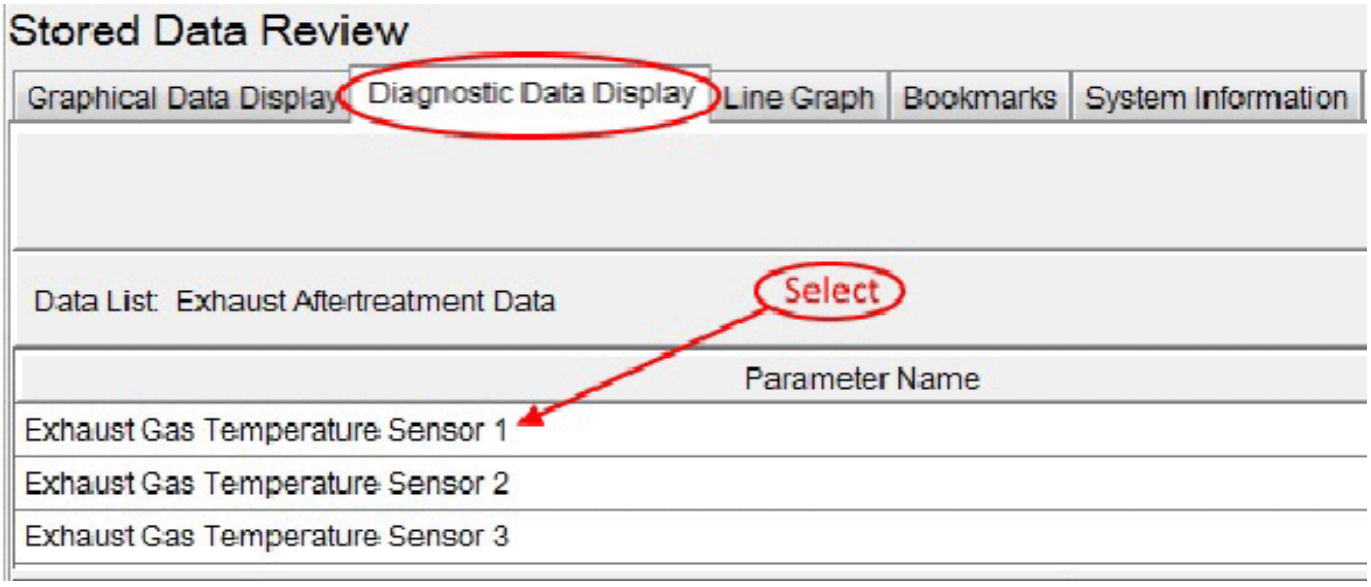
The following procedure is to aid in graphing NOx sensor readings and temperature sensor readings using the GDS2.

Information for the temperatures and NOx sensors can be pulled from the DPF Service Regeneration and the Reductant Fluid Quality Test from session files or stored data in GDS2.

Suggested Procedure for Graphing DPF Service Regeneration Temperatures

Locate the DPF Service Regeneration in the Stored Data:

1. Select the Review Tab.



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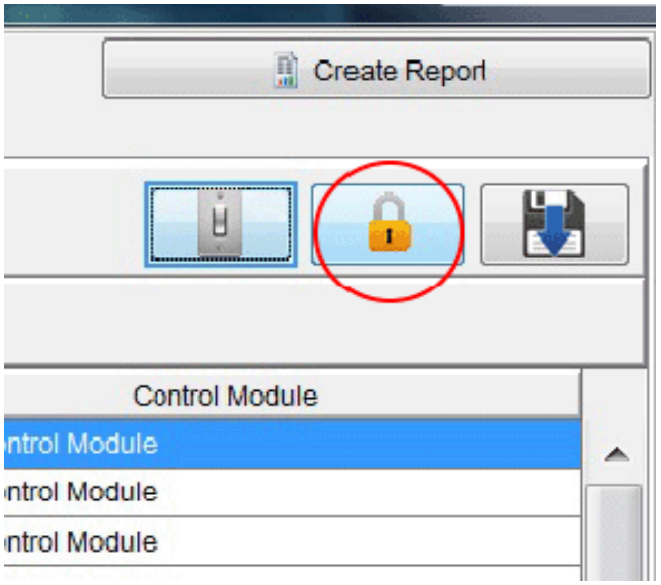
2. Select the Diagnostic Data Display tab.
3. Select the Exhaust Gas Temperature Sensor 1.



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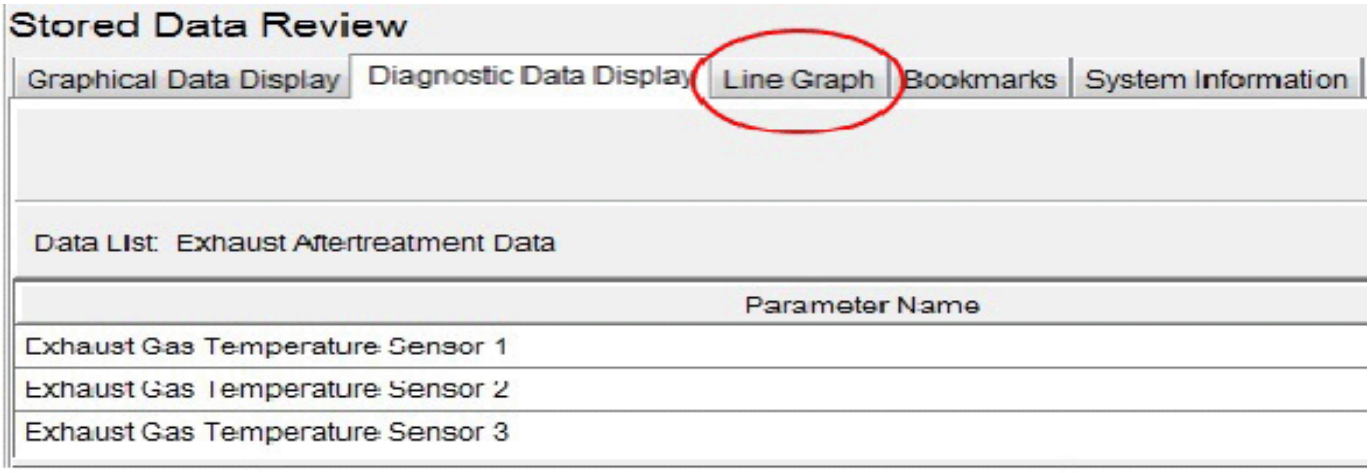
Note: The LOCK PARAMETER BUTTONS must be selected after each parameter has been selected to be graphed.

4. Select the Lock Parameter button located at the upper right side of display.
5. Repeat the steps above to add the Exhaust Gas Temperature Sensor 2 and 3.



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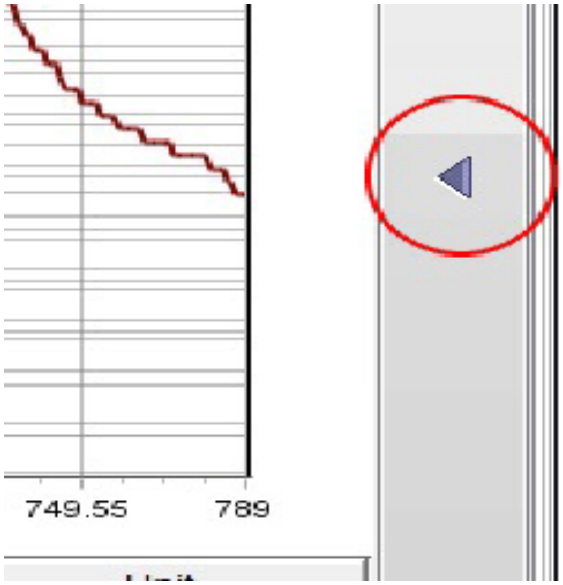
6. Select the Line Graph tab.



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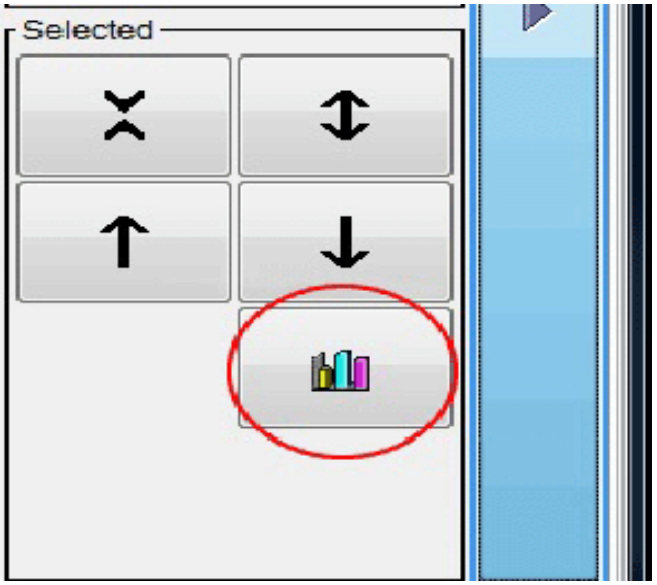
7. On the right side of the display, select the Show/ Hide Control arrow button.



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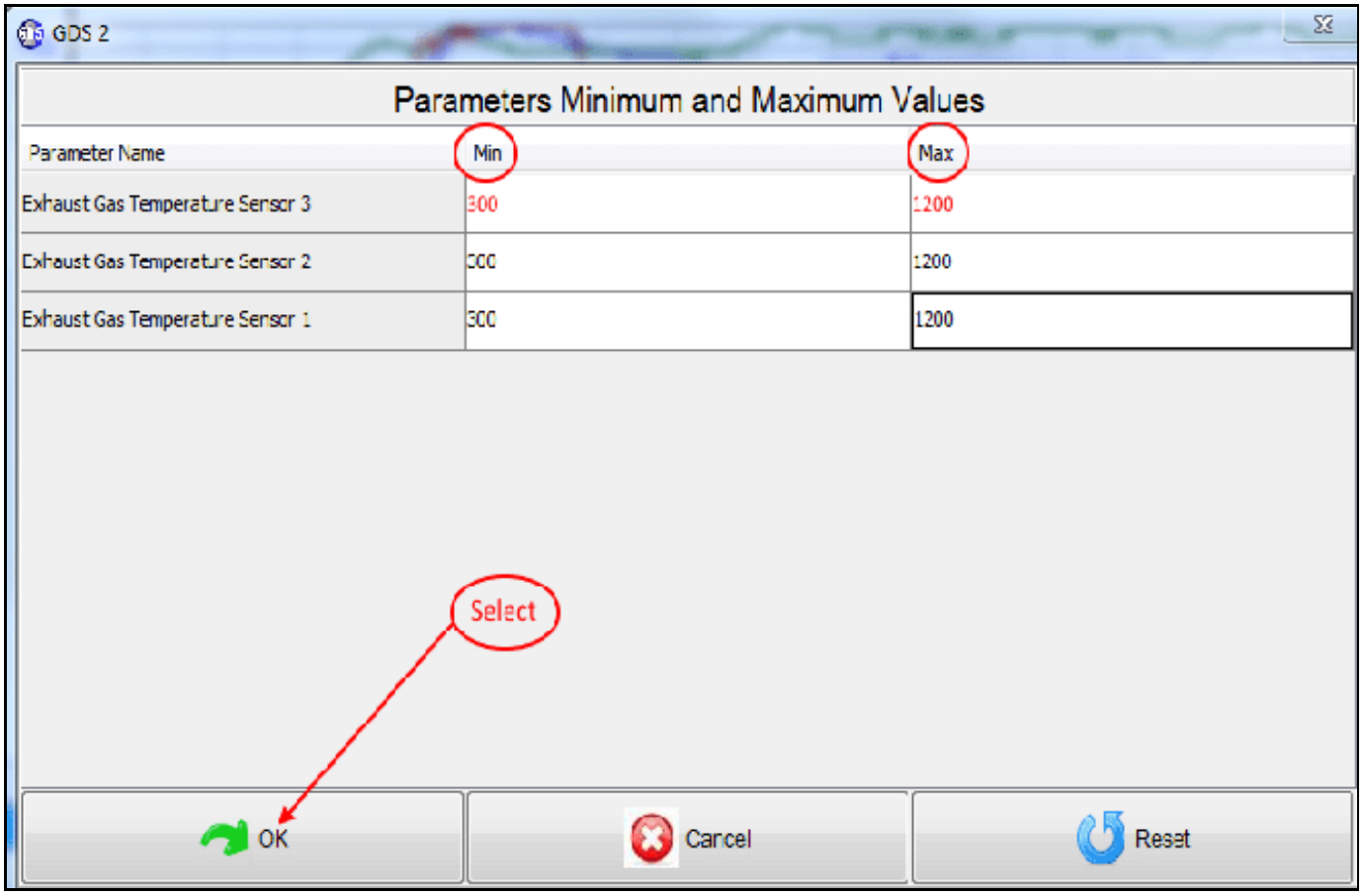
8. Select the Change Scale button.



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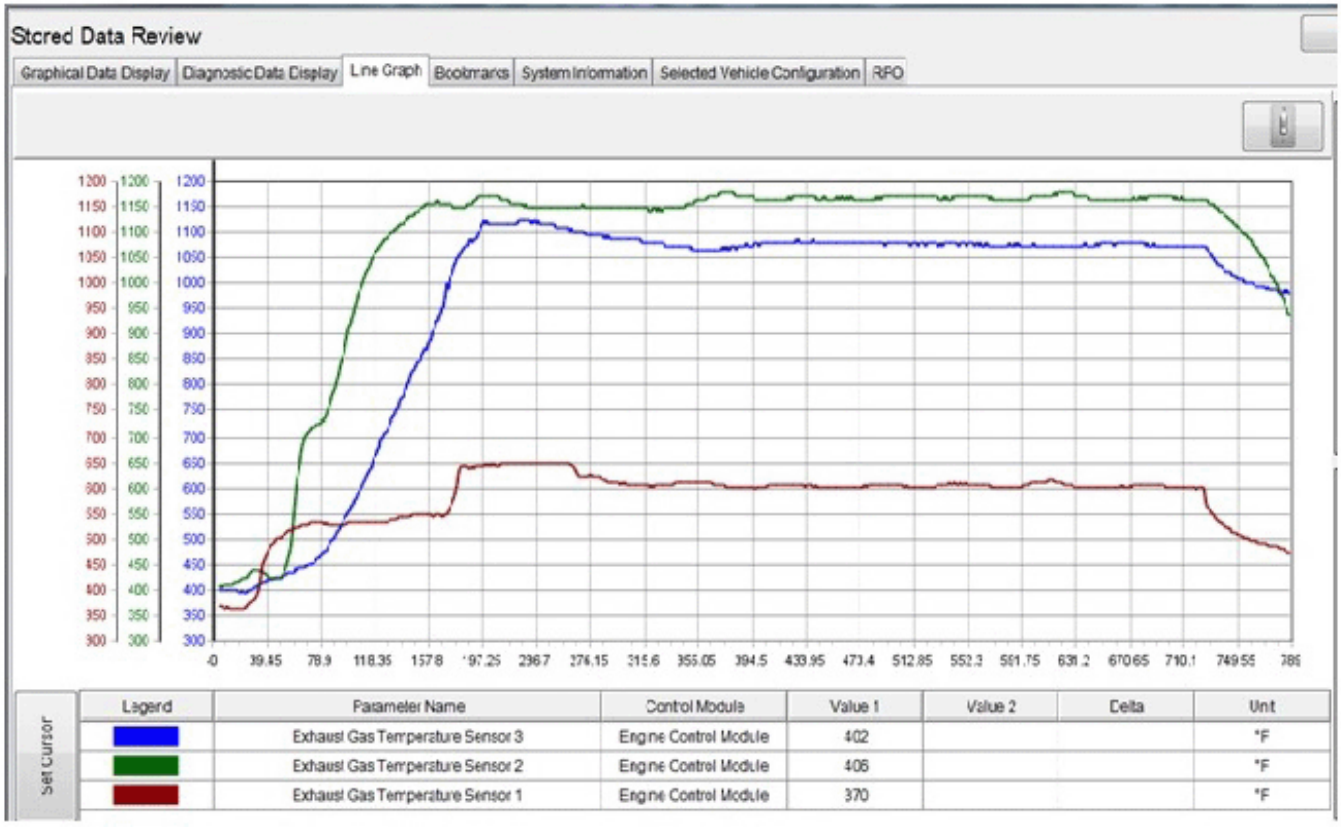
Note: When selecting the temperature values, the parameters should be all on the same scale.

9. Under the Parameters Values, select the MIN and MAX parameters for graphing out the readings.
10. Select OK.

Graph Results



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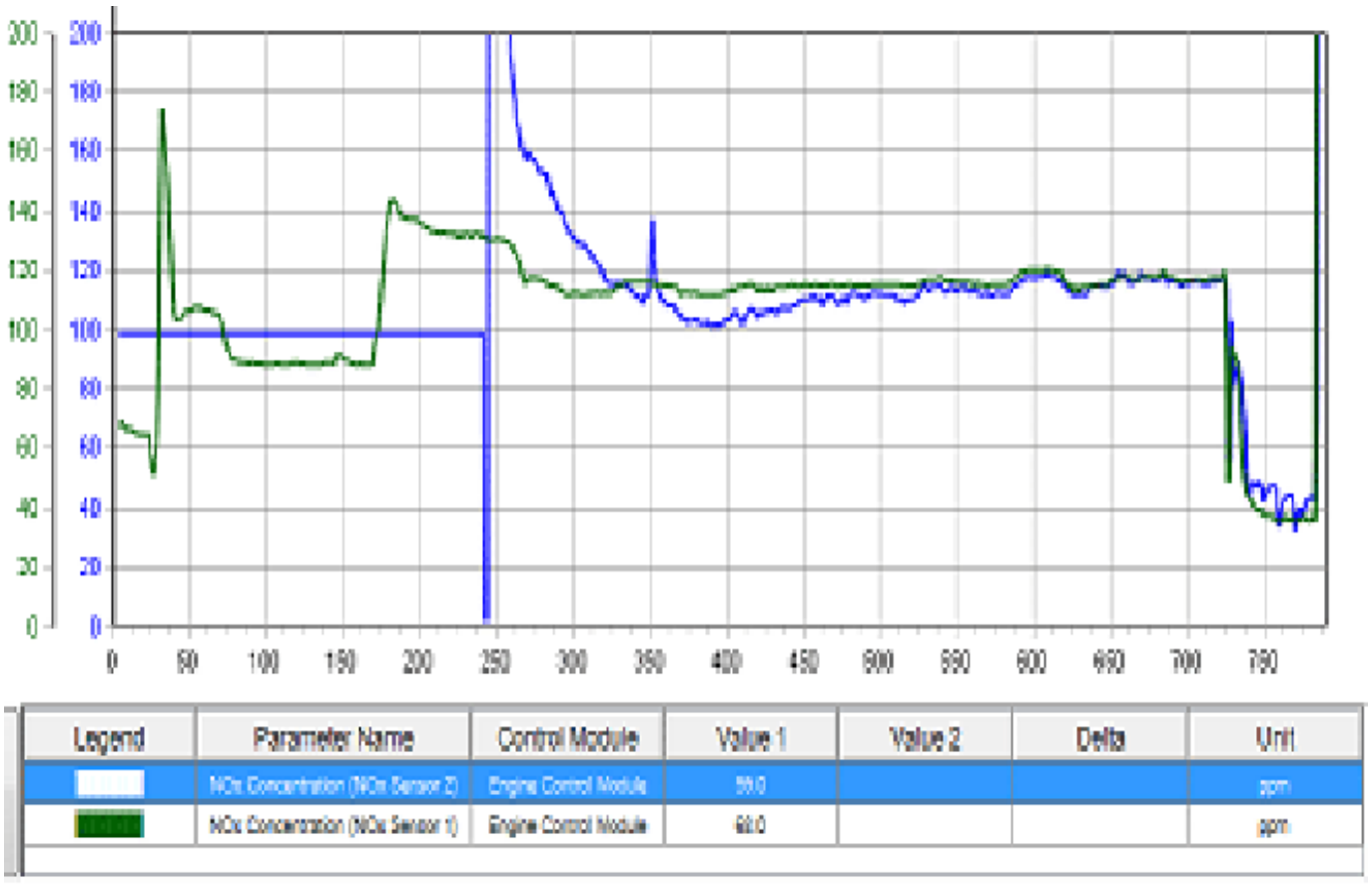
Graphed results of the exhaust temperatures during the DPF Service Regeneration.

Recommended parameter values;

- Enter 300 under MIN.
- Enter 1200 under MAX.



Legend	Parameter Name	Control Module	Value 1	Value 2	Delta	Unit
	NOx Concentration (NOx Sensor 2)	Engine Control Module	59.0			ppm
	NOx Concentration (NOx Sensor 1)	Engine Control Module	60.0			ppm

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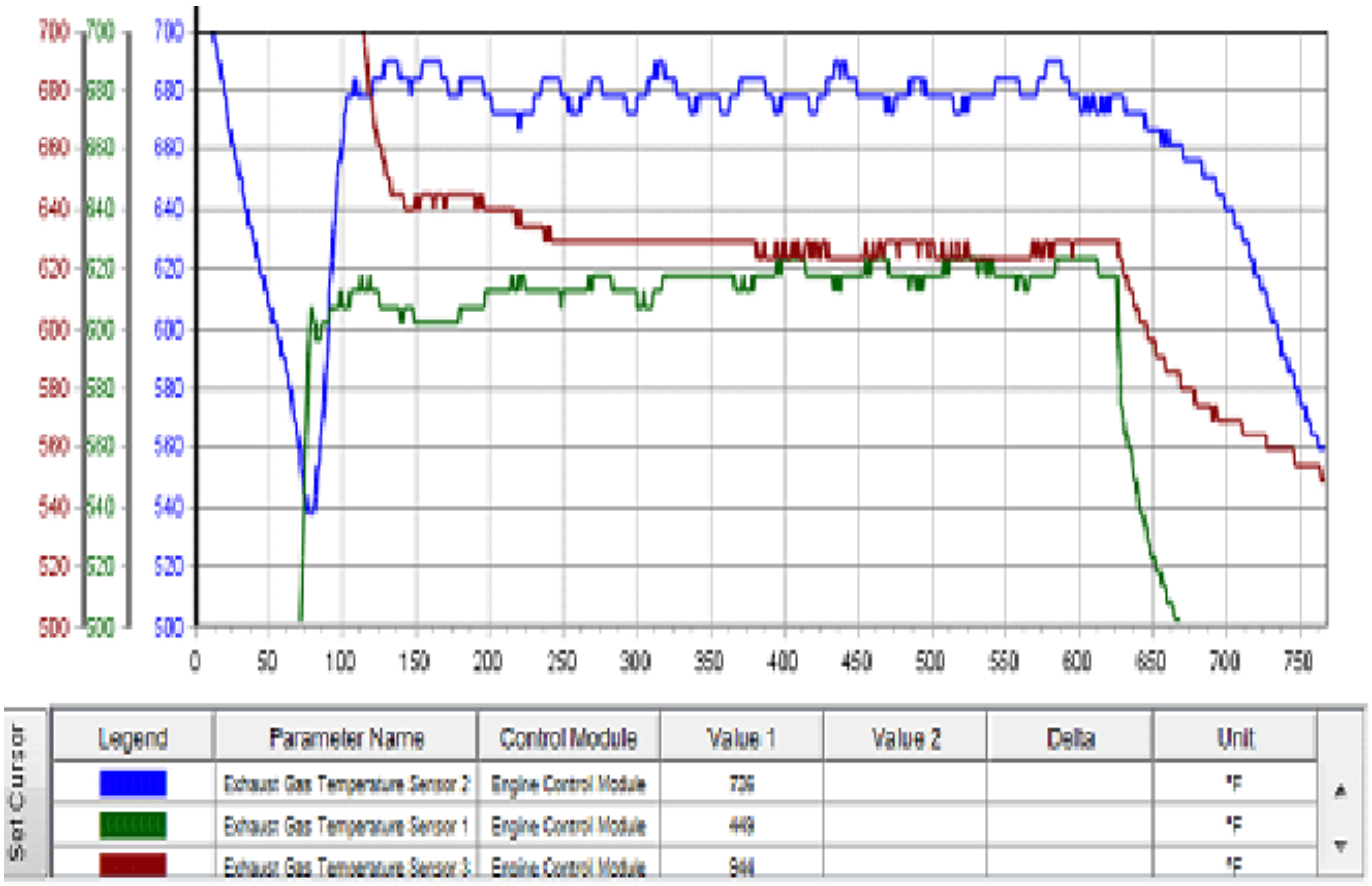
Note: NOx Sensor 2 may have higher readings than the NOx sensor 1 during a regeneration.

Graphed results of the NOx sensors during the DPF Service Regeneration.

Recommended parameter values;

- Enter 0 under MIN.
- Enter 200 under MAX.



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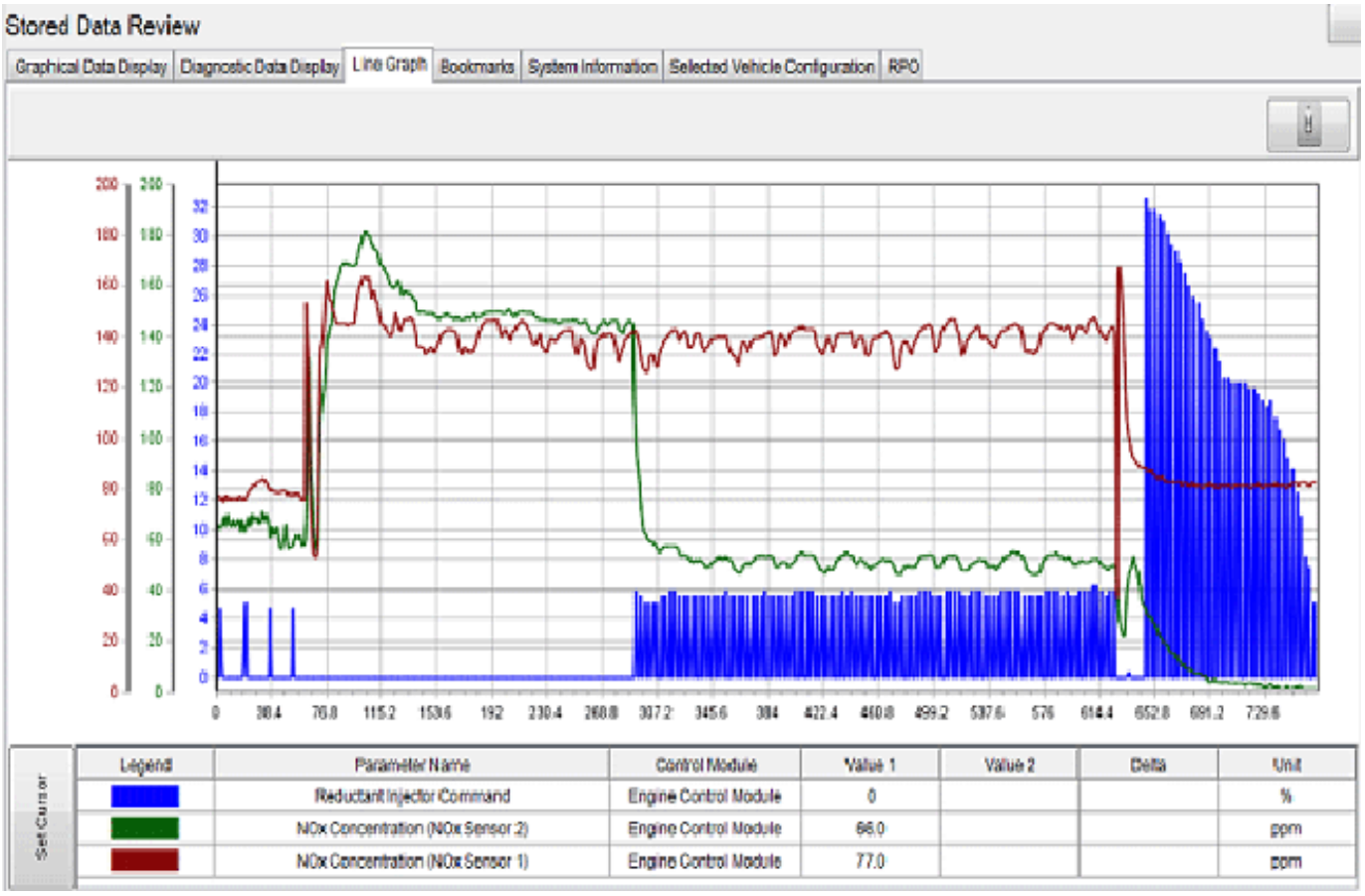
Graphed results of the exhaust temperature readings during the Reductant Fluid Quality test.

Recommended parameter values;

- Enter 500 under MIN.
- Enter 700 under MAX.



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Graphed results of the NOx sensor readings during the Reductant Fluid Quality test.

Recommended parameter values;

- Enter 0 under MIN.
- Enter 200 under MAX.

Version	1
Modified	

Additional Keywords 2.0, soot, fuel, NOx, Nitrogen Oxide, O2, Regen, Regeneration, Fuel, SCR, LUZ, EGT, DOC, DPF, Exhaust, Particulate, Fluid, Quality, P2463, P144E, P144F, P20EE, P2459, P2463, P2BAA, P249D, P249E