

How to Use VCM Scanner and Manage Diagnostic Trouble Codes

Learn how to monitor specific vehicle data and clear diagnostic trouble codes using the VCM Scanner software. This guide provides a straightforward process for adding sensors to your dashboard and saving your diagnostic logs for future review.

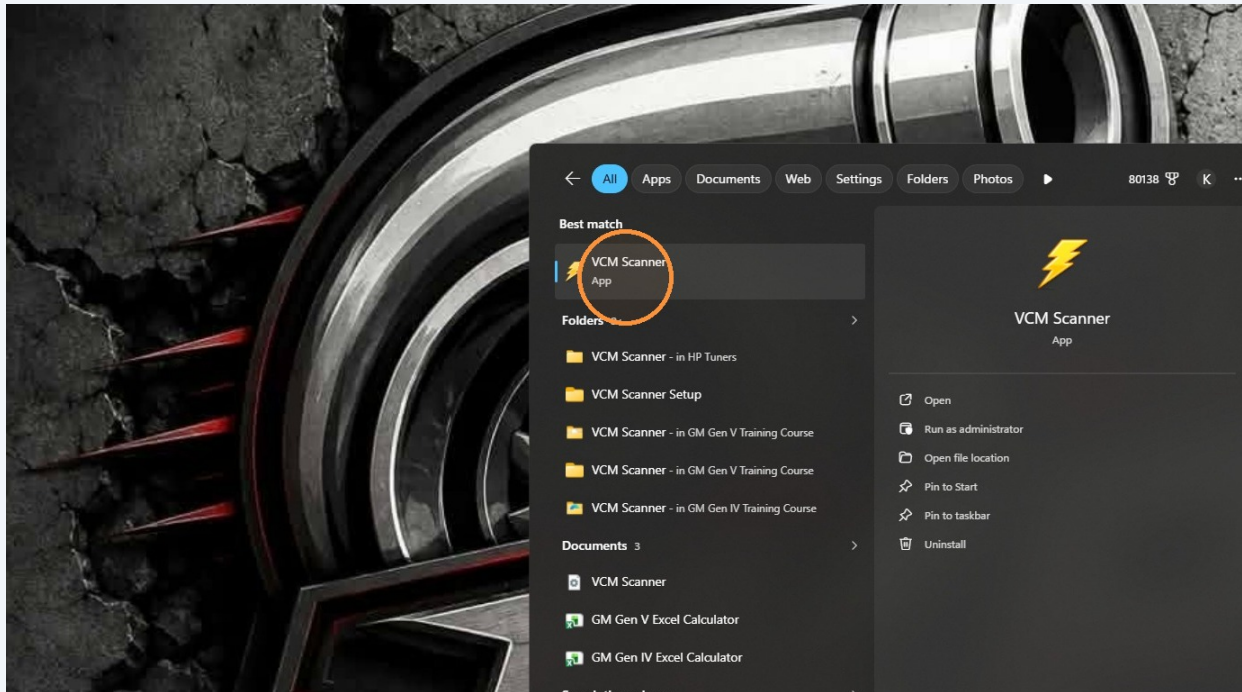
Launch Scanner

1

Click here

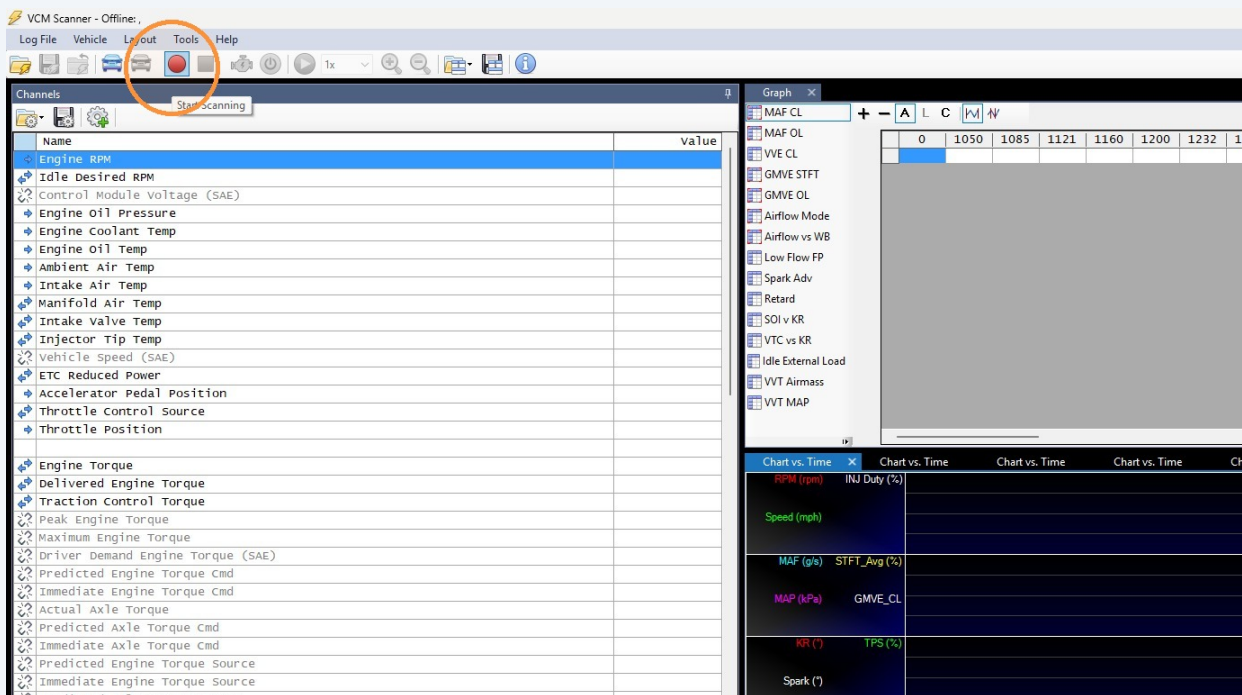


- 2 Select the VCM Scanner app from the search results.

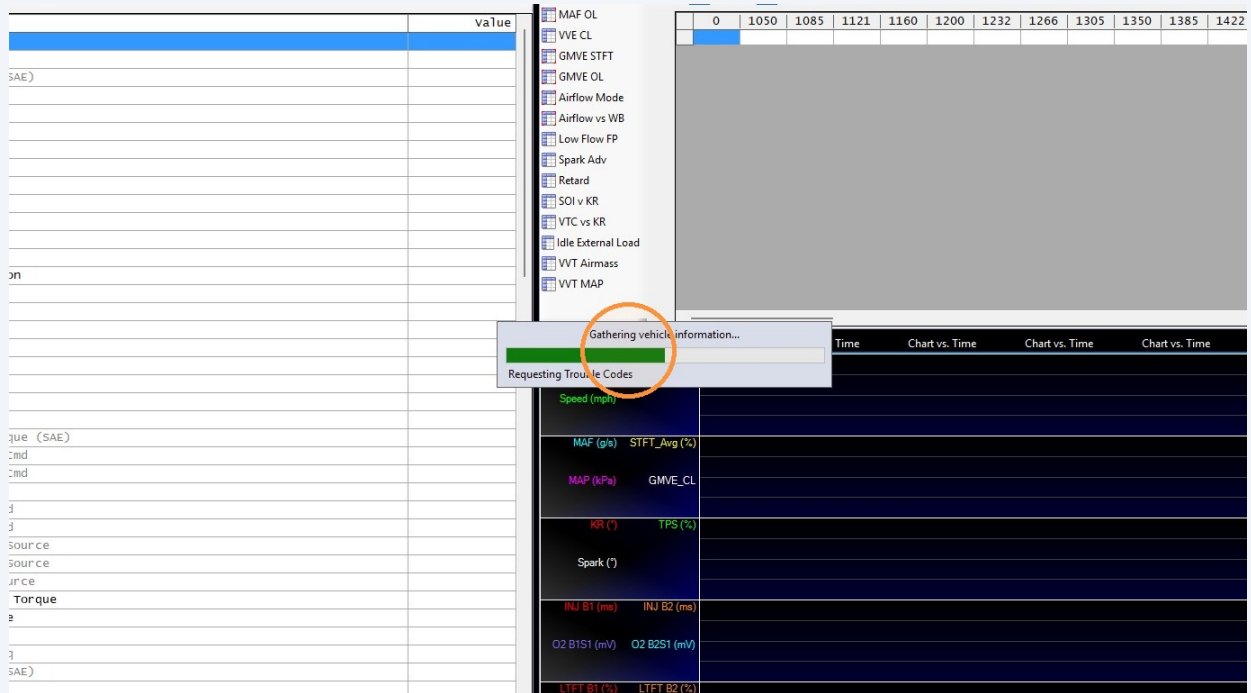


Configure Channels

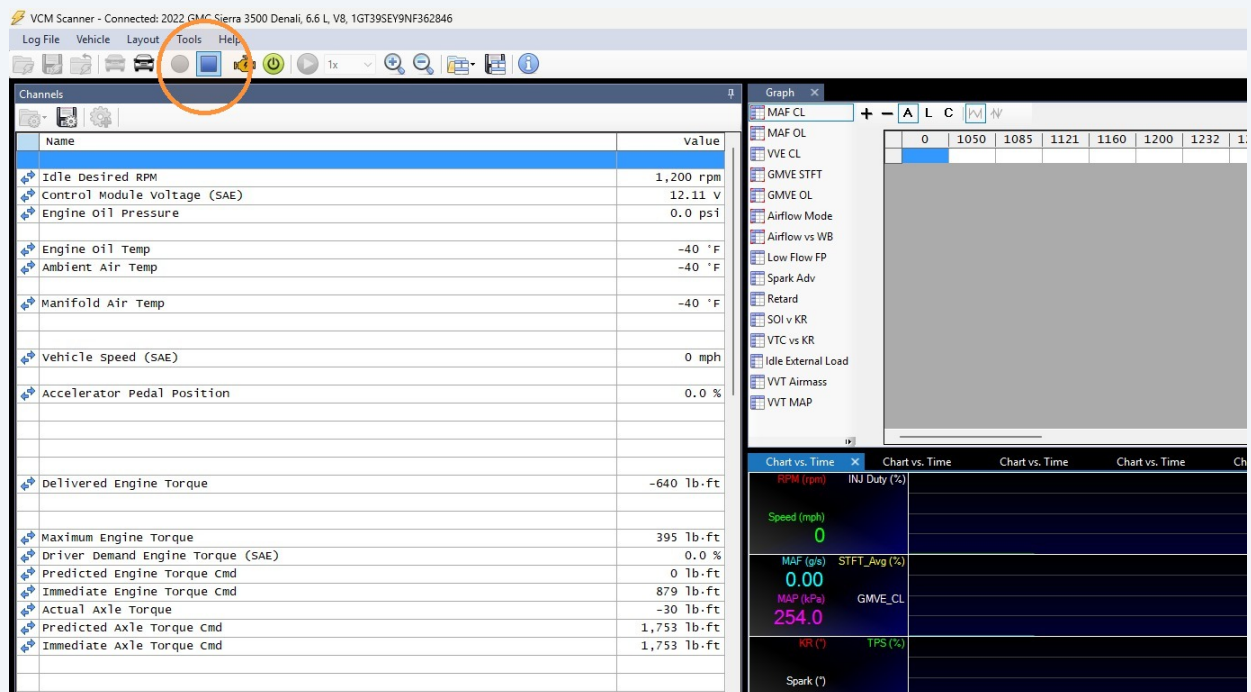
- 3 Make sure vehicle is running, or key on with engine off, Click Start Scanning.



4 Wait while VCM Scanner requests information and trouble codes.



5 Click "Blue Square to stop log."



6 To add a loggable parameter to the channels list, Select the a channel row.

VCM Scanner - Connected: 2022 GMC Sierra 3500 Denali, 6.6 L V8, 1GT39SEY9NF362846

Log File Vehicle Layout Tools Help

Channels

Name	Value
Idle Desired RPM	1,200 rpm
Control Module Voltage (SAE)	12.11 v
Engine Oil Pressure	0.0 psi
Engine Oil Temp	-40 °F
Ambient Air Temp	-40 °F
Manifold Air Temp	-40 °F
Vehicle Speed (SAE)	0 mph
Accelerator Pedal Position	0.0 %
Delivered Engine Torque	-640 lb.-ft
Maximum Engine Torque	395 lb.-ft
Driver Demand Engine Torque (SAE)	0.0 %
Predicted Engine Torque Cmd	0 lb.-ft
Immediate Engine Torque Cmd	879 lb.-ft
Actual Axle Torque	-30 lb.-ft
Predicted Axle Torque Cmd	1,753 lb.-ft
Immediate Axle Torque Cmd	1,753 lb.-ft

Graph

MAF CL + - A L C [M] [V]

0	1050	1085	1121	1160	1200	1232	1.
MAF OL							
VVE CL							
GMVE STFT							
GMVE OL							
Airflow Mode							
Airflow vs WB							
Low Flow FP							
Spark Adv							
Retard							
SOI v KR							
VTC vs KR							
Idle External Load							
VVT Airmass							
VVT MAP							

Chart vs. Time

Chart vs. Time	Chart vs. Time	Chart vs. Time	Chart vs. Time	Ch
RPM (rpm)	INJ Duty (%)			
Speed (mph)				
MAF (g/s)	STFT_Avg (%)			
MAP (kPa)	GMVE_CL			
KR (°)	TPS (%)			
Spark (°)				

7 Right-click the channel row.

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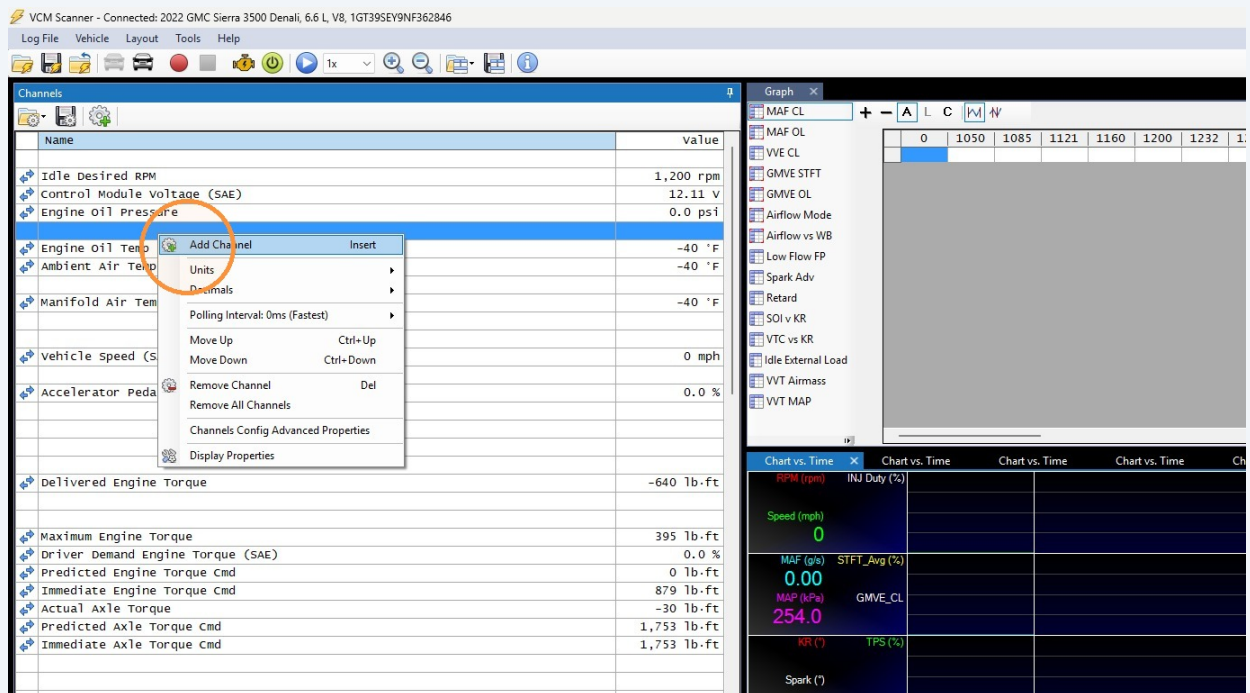
MAF CL + - A L C [M] [V]

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MAF OL							
VVE CL							
GMVE STFT							
GMVE OL							
Airflow Mode							
Airflow vs WB							
Low Flow FP							
Spark Adv							
Retard							
SOI v KR							
VTC vs KR							
Idle External Load							
VVT Airmass							
VVT MAP							

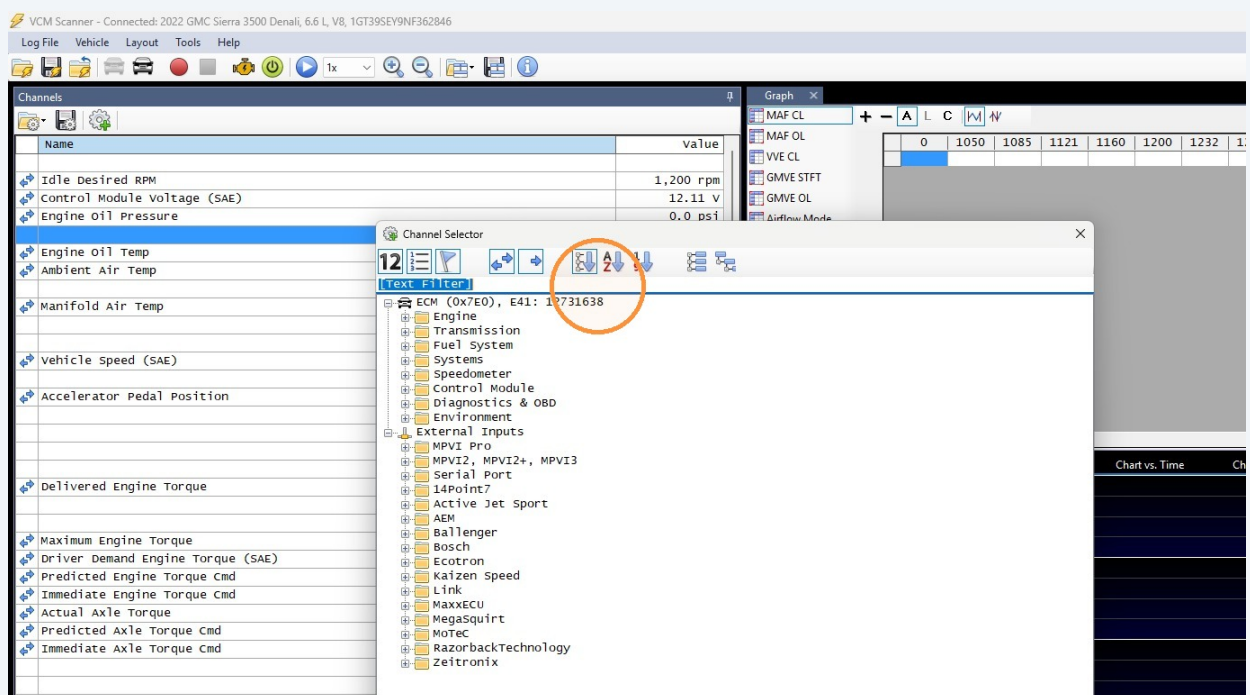
Chart vs. Time

Chart vs. Time	Chart vs. Time	Chart vs. Time	Chart vs. Time	Ch
RPM (rpm)	INJ Duty (%)			
Speed (mph)				
MAF (g/s)	STFT_Avg (%)			
MAP (kPa)	GMVE_CL			
KR (°)	TPS (%)			
Spark (°)				

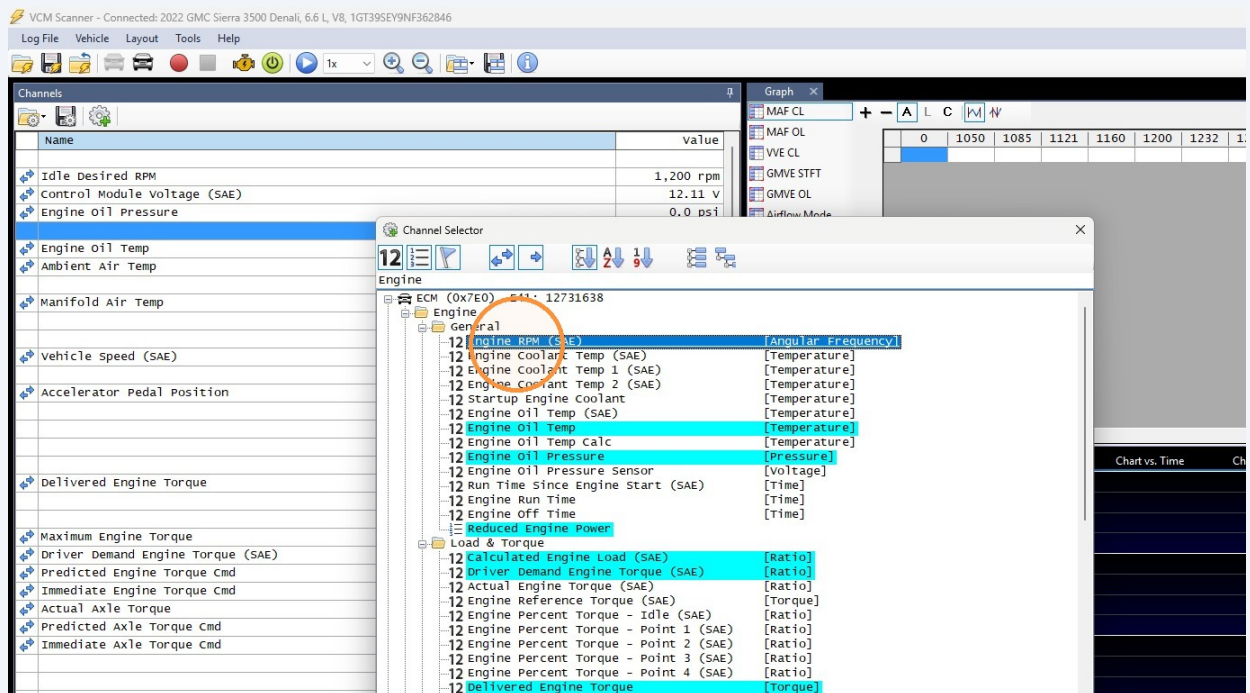
8 Click Add Channel.



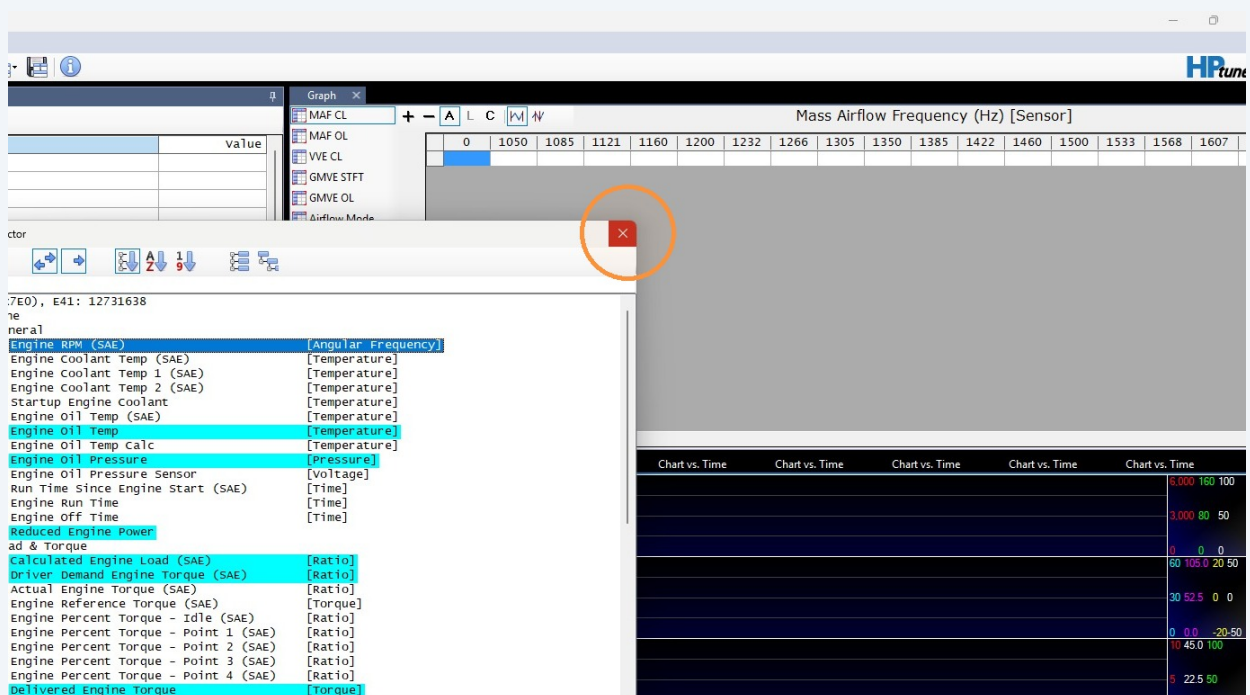
9 Open the Channel Selector and search for parameter you want to add.



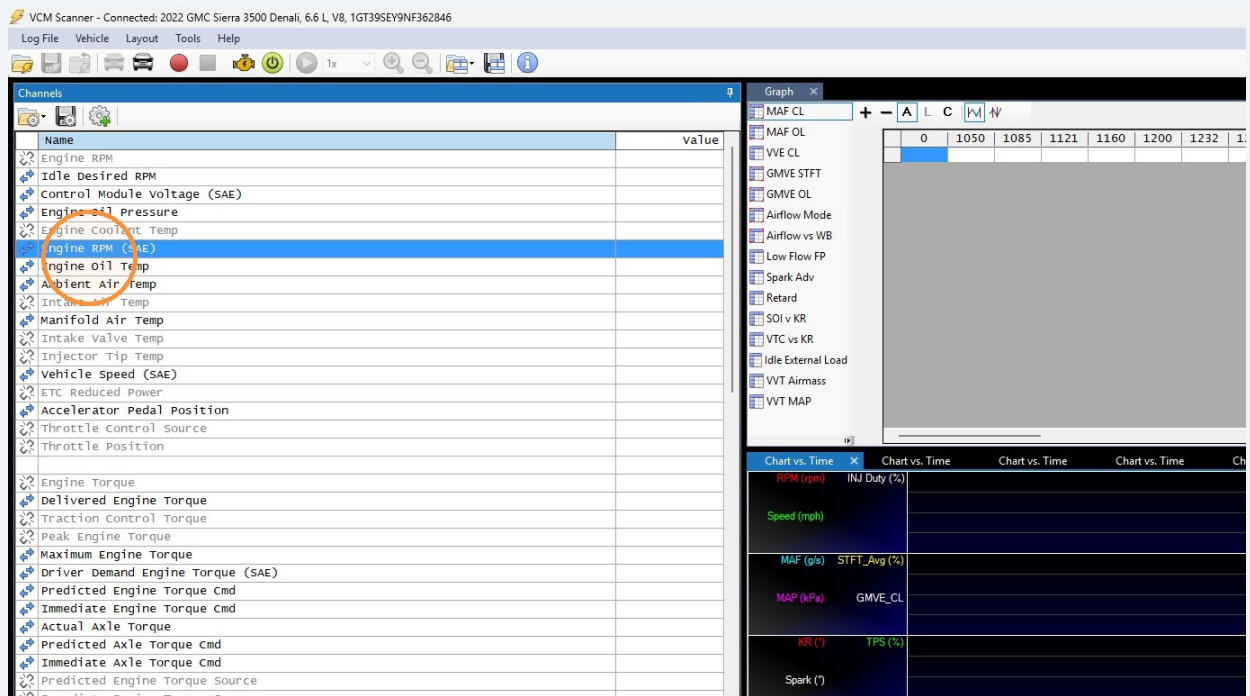
10 Double-click Engine RPM (SAE) [Angular Frequency].



11 Close the Channel Selector.

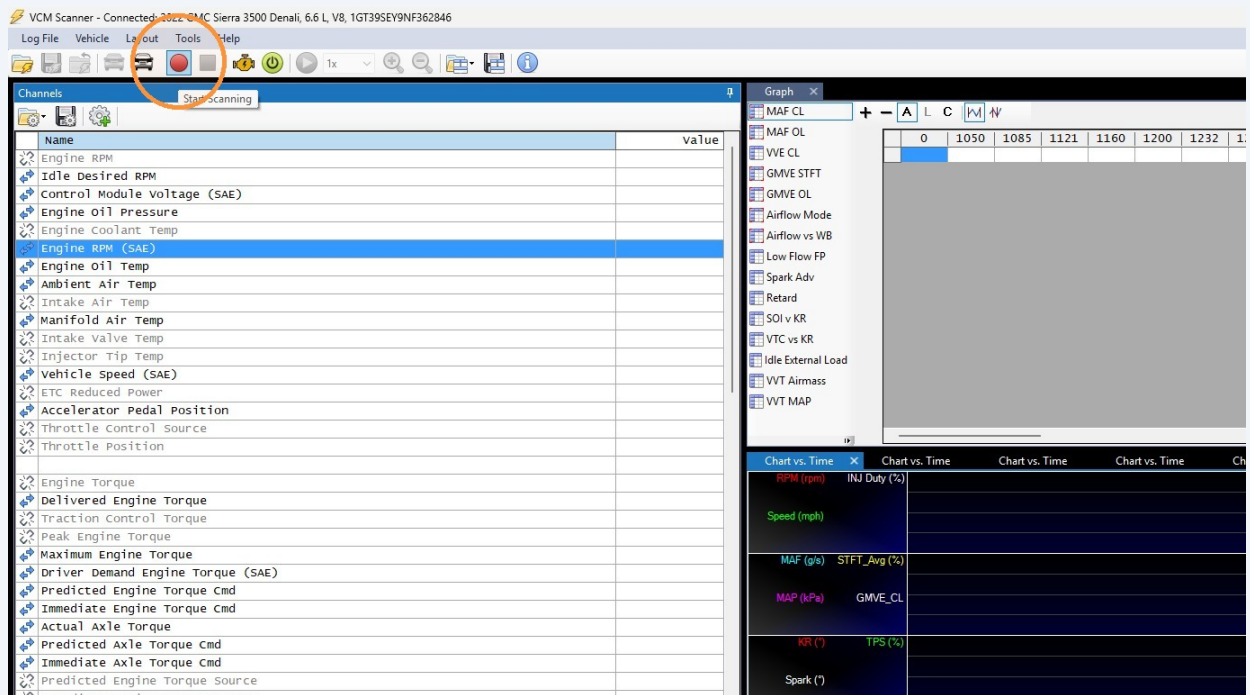


12 Now you can see the Engine RPM (SAE) channel row has been added.

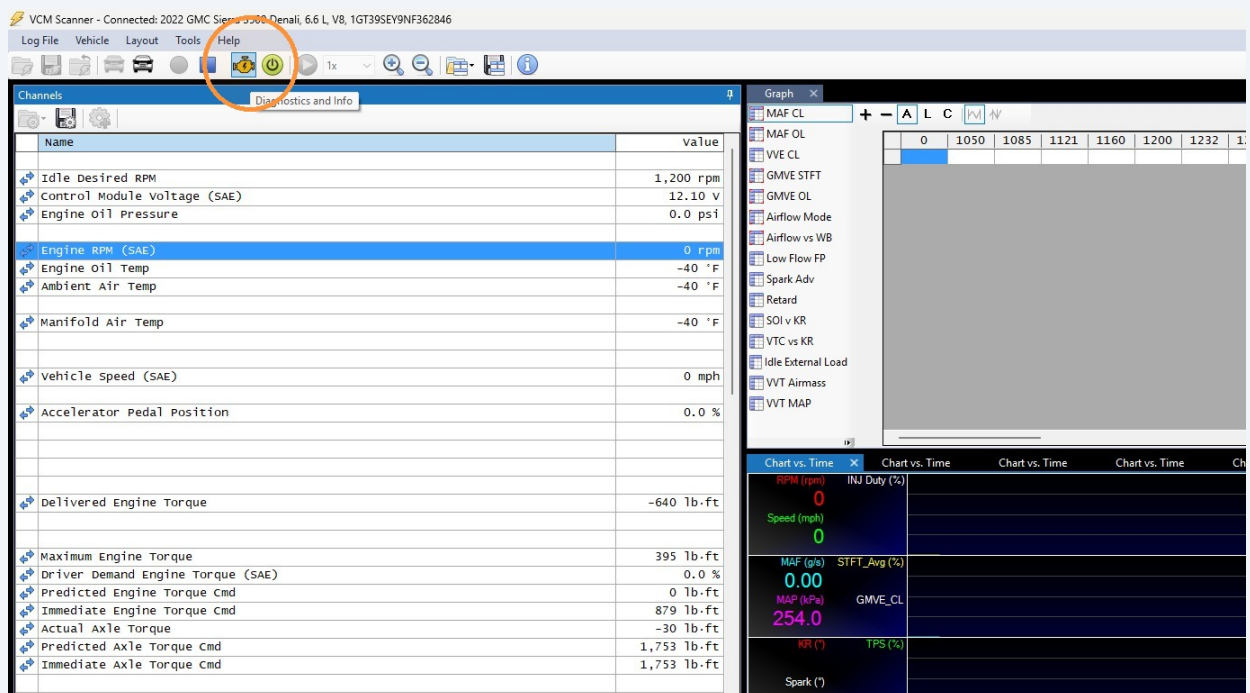


Review Diagnostics

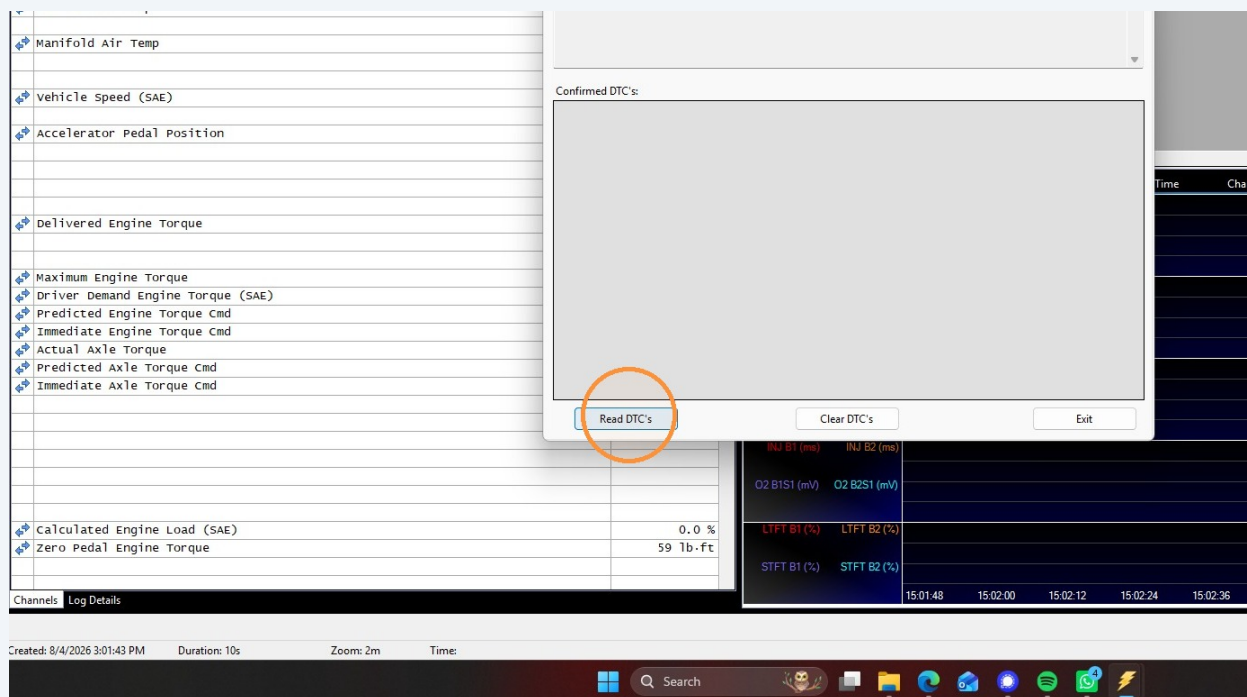
13 If scanner is not connect click red circle to Start Scanning.



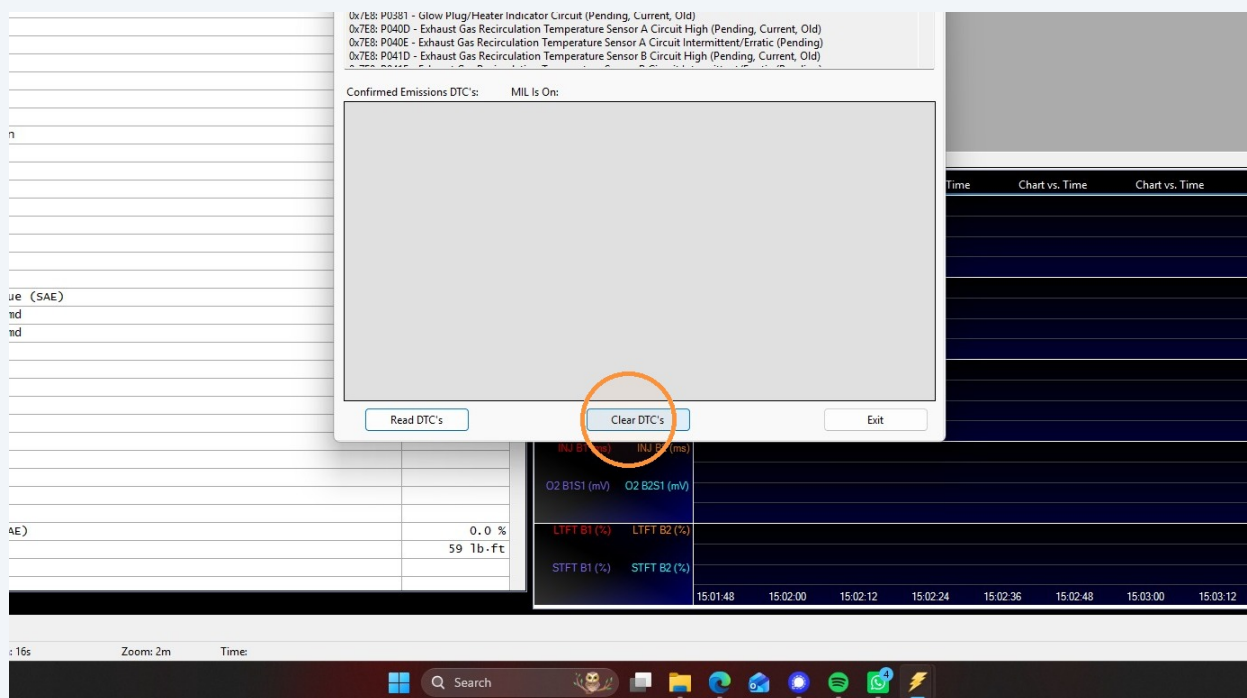
14 Click Diagnostics and Info.



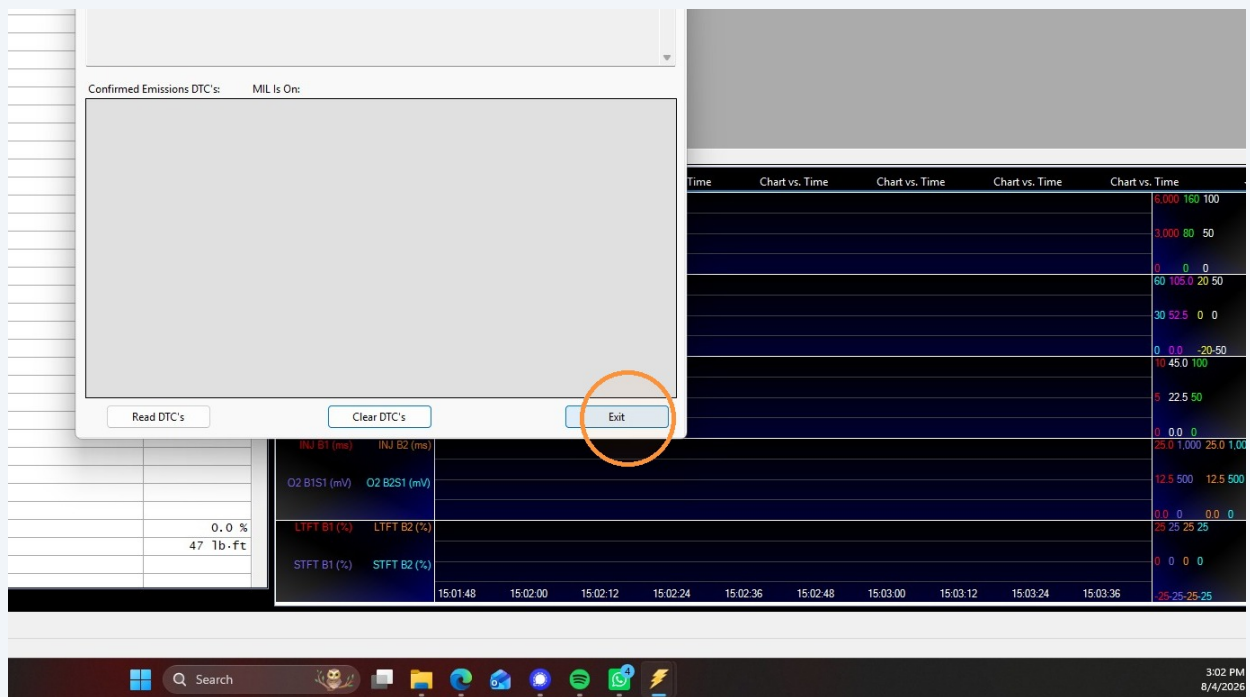
15 Click Read DTC's.



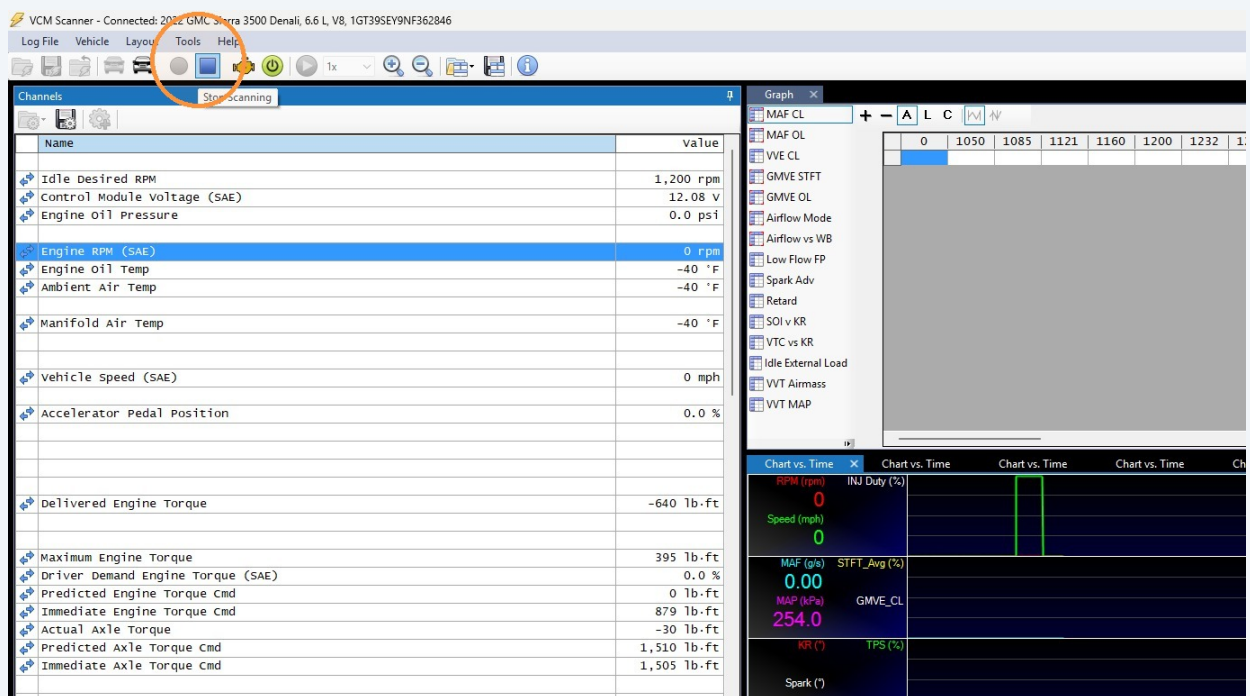
16 Click Clear DTC's.



17 Click Exit.



18 Click Stop Scanning.



Save Log File

19 Open the Log File menu.

The screenshot shows the VCM Scanner interface connected to a 2022 GMC Sierra 3500 Denali. The 'Log File' menu is open, and the 'Save Log File As' option is highlighted. The main window displays a list of channels with their current values, and a graph area on the right showing various engine parameters over time.

Name	Value
Idle Desired RPM	1,200 rpm
Control Module voltage (SAE)	12.08 v
Engine oil Pressure	0.0 psi
Engine RPM (SAE)	0 rpm
Engine oil Temp	-40 °F
Ambient Air Temp	-40 °F
Manifold Air Temp	-40 °F
Vehicle Speed (SAE)	0 mph
Accelerator Pedal Position	0.0 %
Delivered Engine Torque	-640 lb.-ft
Maximum Engine Torque	395 lb.-ft
Driver Demand Engine Torque (SAE)	0.0 %
Predicted Engine Torque Cmd	0 lb.-ft
Immediate Engine Torque Cmd	879 lb.-ft
Actual Axle Torque	-30 lb.-ft
Predicted Axle Torque Cmd	1,515 lb.-ft
Immediate Axle Torque Cmd	1,513 lb.-ft

20 When you are ready to save a log Click Save Log File As.

The screenshot shows the VCM Scanner interface with the 'Log File' menu open. The 'Save Log File As' option is highlighted. The main window displays a list of channels with their current values, and a graph area on the right showing various engine parameters over time.

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