TECH TIP

DX3 BURNER MANUAL REGEN MONITOR

GROUP: 0-GENERAL
TECH TIP NO: TT-22-023
DATE: 11-22-22

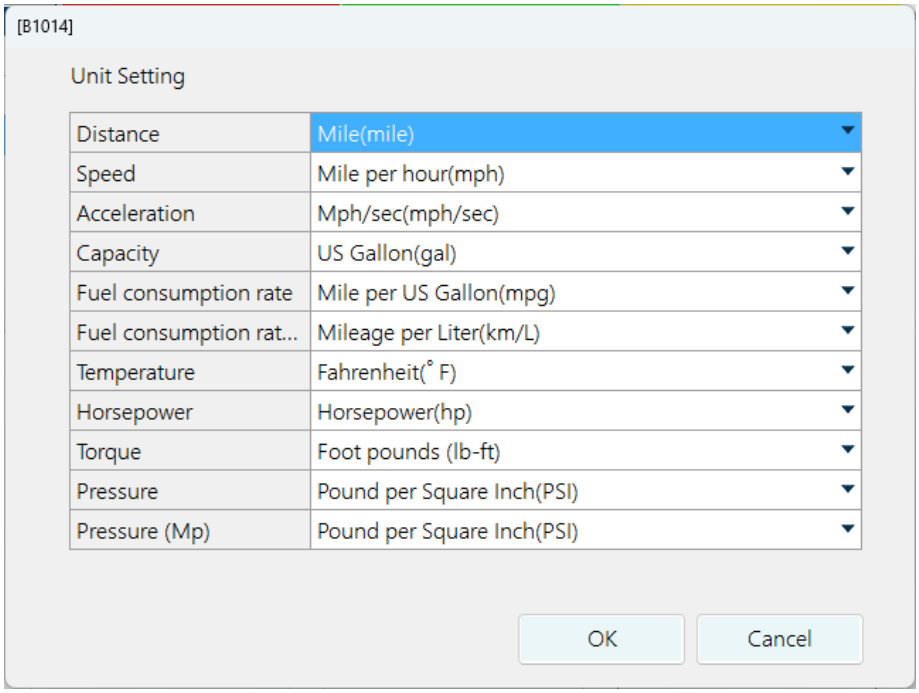
SUBJECT VEHICLES : 11MY-14MY Conventional Trucks equipped with a J08 engine and burner style exhaust systems.

OVERVIEW:
The purpose of this procedure is to provide instructions in how to perform a burner regen recording on Conventional trucks equipped with a burner style exhaust system with DX3.

Note: This technical tip is provided as technical information and is not authorization for a warrantable repair.

REPAIR PROCEDURE:

Note: Be sure to change unit settings in DX3. Click ***Settings*** (gear in the upper right) > **Unit Setting** and then mirror the settings as shown below, click ***OK***. Log out of DX3, then log back in to hold new settings for future DX3 connections and data monitoring.



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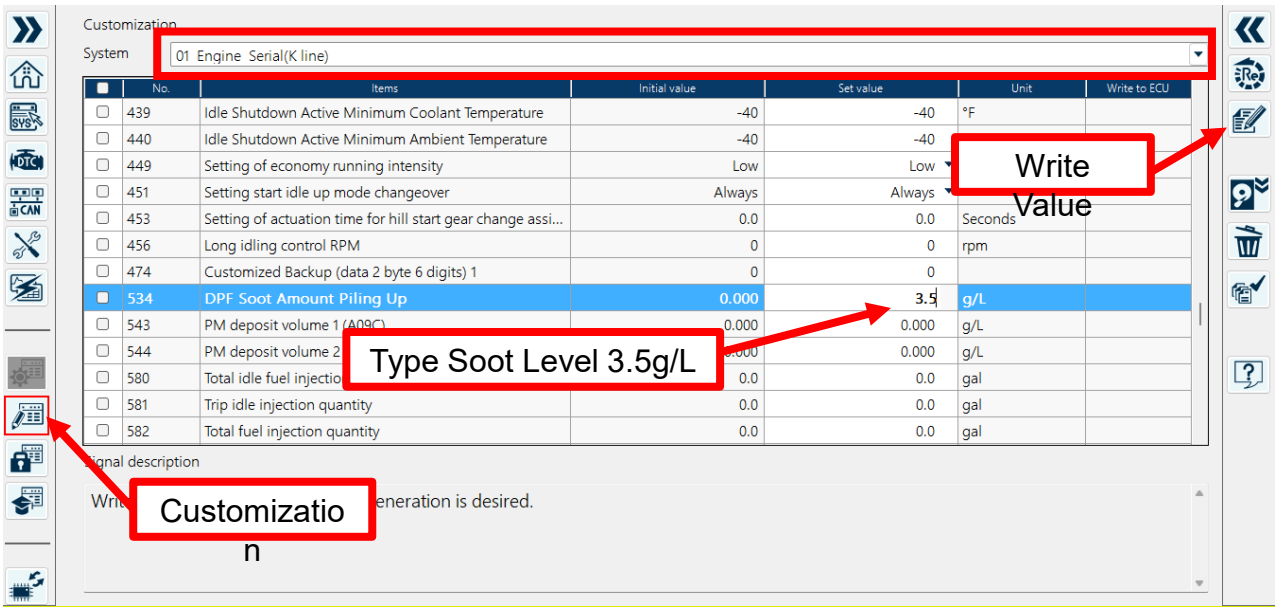
1. Bring the engine to normal operating temperature of 175*F to 185*F (79-85 *C)

2. Connect DX3 and allow read out to complete. Click ***Customization***, in system select ***Engine CAN***, and scroll to locate ***DPF Soot Amount Piling Up.*** Set the soot level to ***3.5g/L*** for a manual regen, and click ***Write.*** Follow DX3 to complete writing of soot level.

Note: Key must be ON with the engine OFF to write or change any value. Ignition must then be turned off for 60 seconds to finalize writing of value. Turn the key back on and verify the manual regen light is flashing o on the regen switch.



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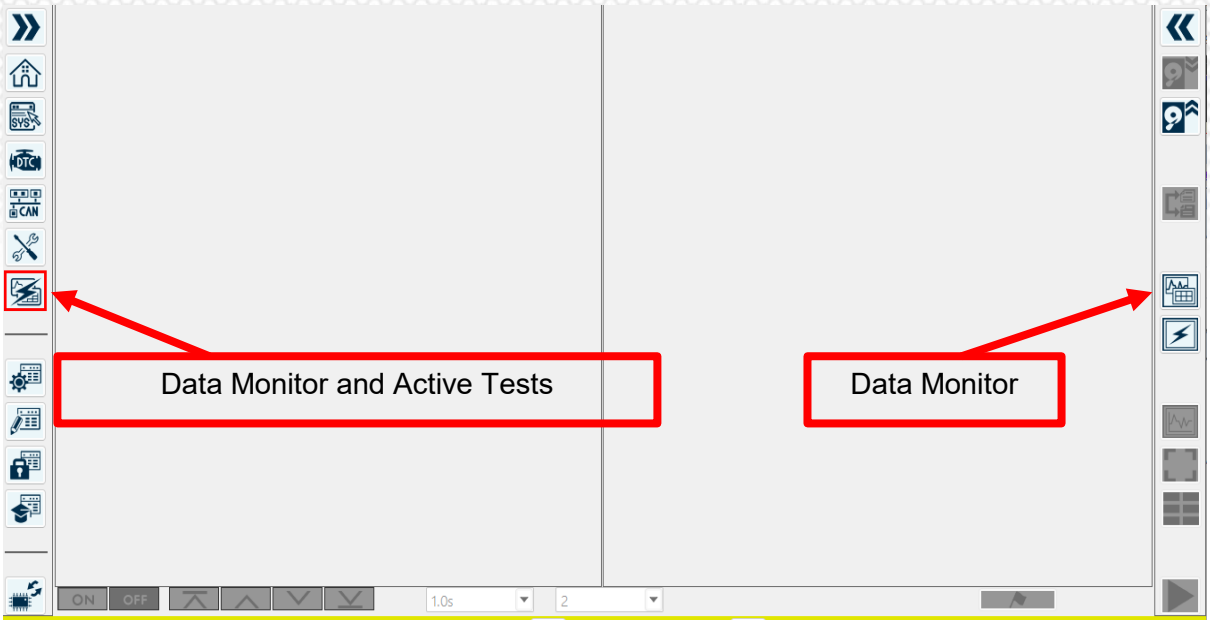
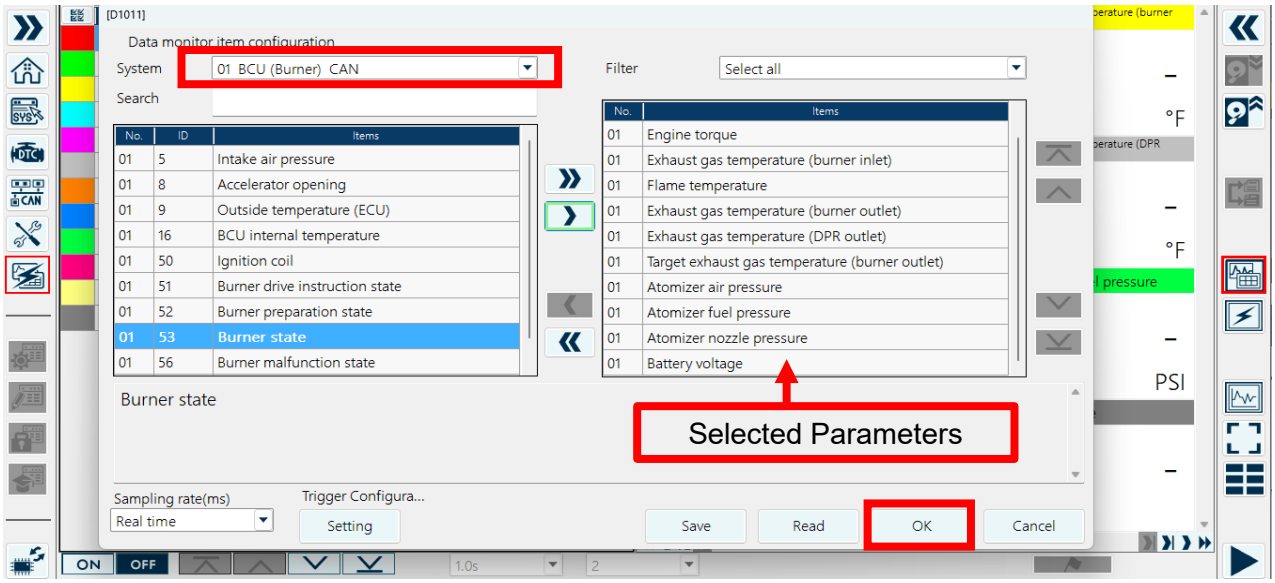
3. Select ***"Data Monitor and Active Tests"*** then select ***"Data Monitor".***



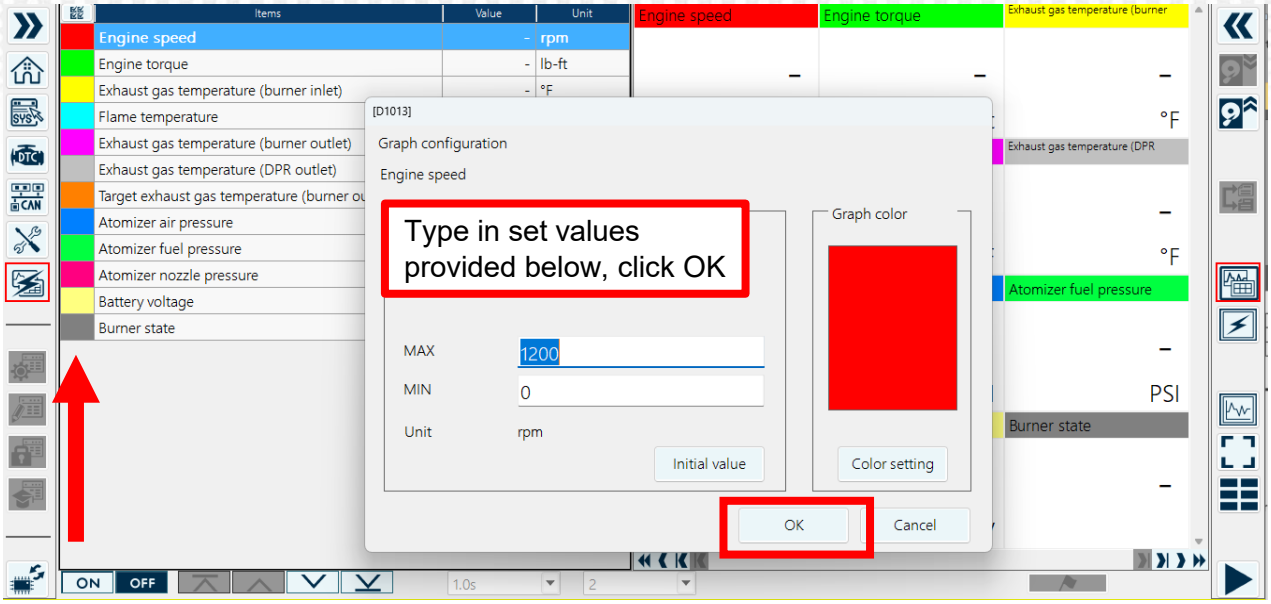
4. In the data monitor item configuration menu on the next page, select ***BCU (Burner)*** and the following parameters and then click ***OK.***

- Engine Speed
- Engine Torque
- Exhaust Gas Temp (Burner Inlet)
- Flame Temp
- Exhaust Gas Temp (Burner Outlet)
- Exhaust Gas Temp (DPR Outlet)
- Target Exhaust Gas Temp (Burner Outlet)
- Atomizer Air Pressure
- Atomizer Fuel Pressure
- Atomizer Nozzle Pressure
- Battery Voltage
- Burner State



IMPORTANT – MIN/MAX Values must be adjusted prior to performing this recording.

5. Adjust MIN/MAX Values. Click the colored box next to each parameter one at a time to set values as shown below, click ***OK*** to accept each value.



Engine Speed **Max 1200 / Min 0**
Engine Torque **Max 400 / Min 0**

Exhaust Gas Temp (Burner Inlet)
Flame Temp
Exhaust Gas Temp (Burner Outlet)
Exhaust Gas Temp (DPR Outlet)
Target Exhaust Gas Temp (Burner Outlet)
Max 2000*F / Min 32* for ALL Temp Sensors

Atomizer Air Pressure
Atomizer Fuel Pressure
Atomizer Nozzle Pressure
Max 137.75 / Min 0 for ALL Atomizer Sensors

Battery Voltage **Max 20 / Min 0**
Burner State **Max 15 Min 0**

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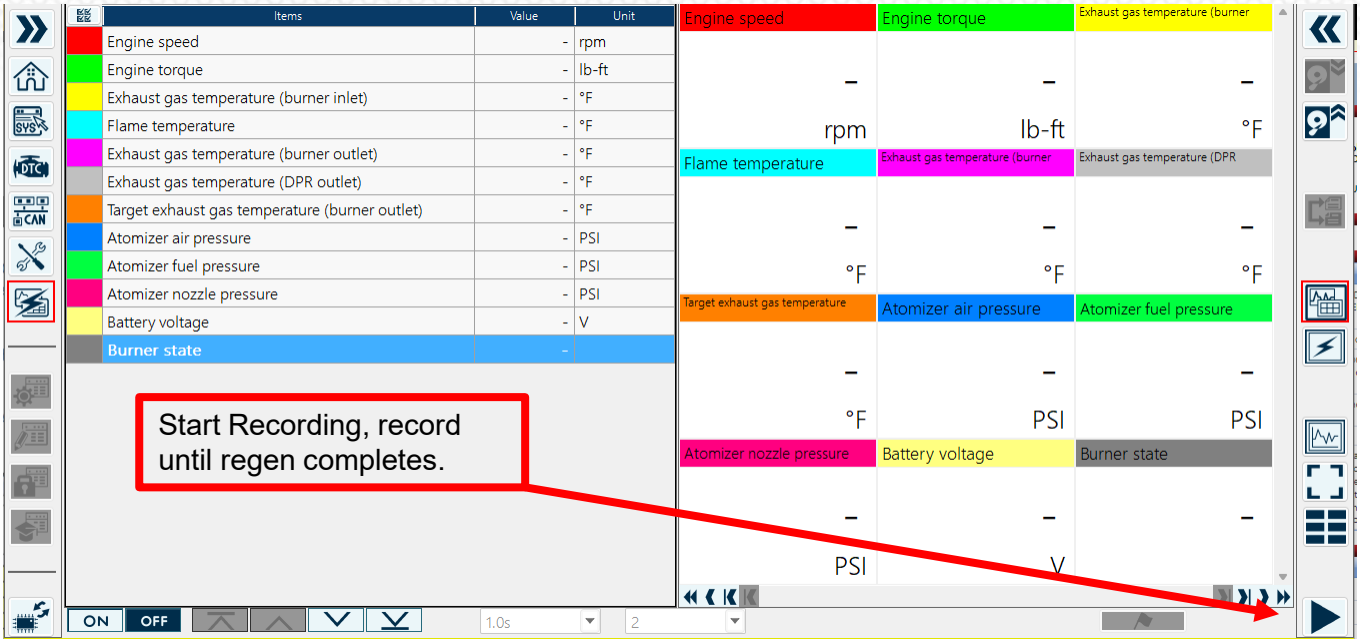
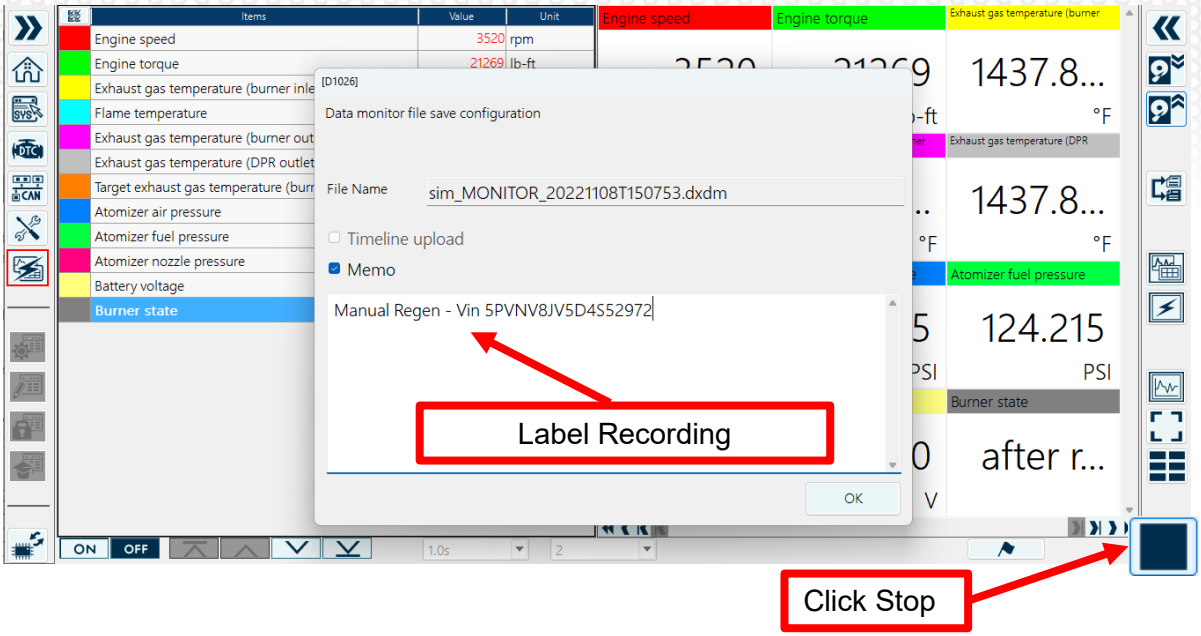
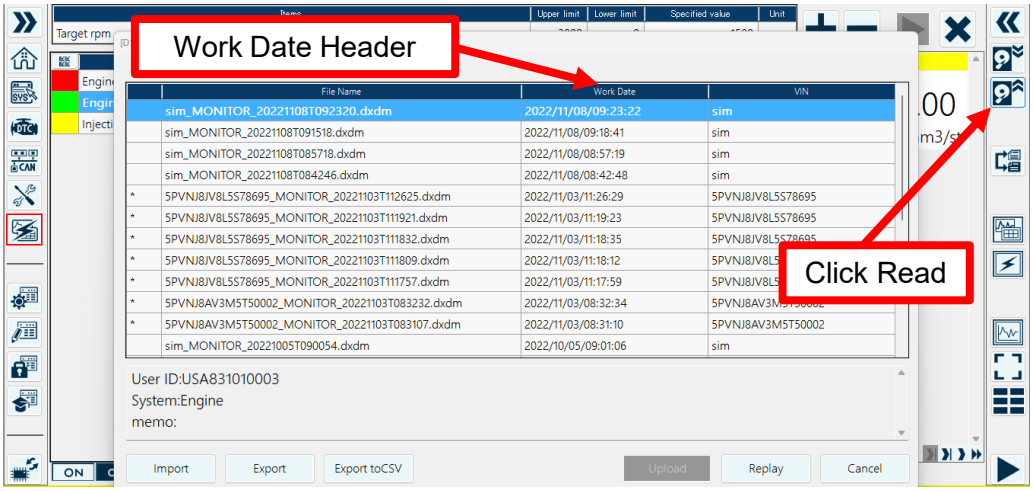
6. Start the truck, start the DX recording and press the Manual Regen switch on the dash to start manual regen. Record until manual regen has completed.



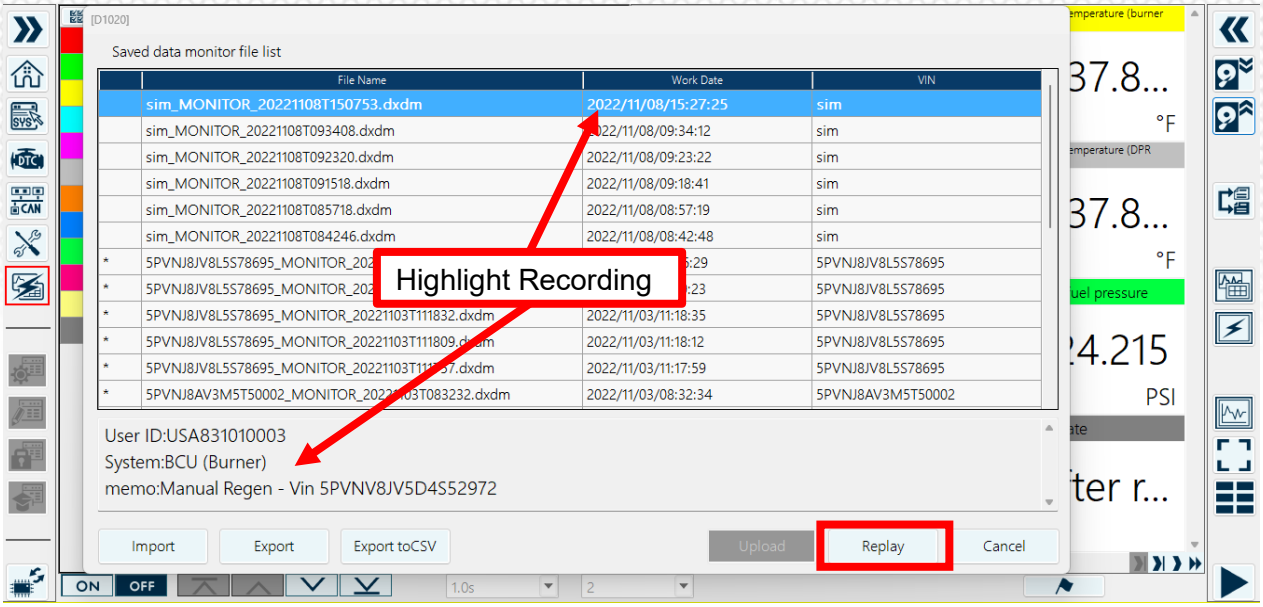
7. Click the ***Stop*** in the lower right of DX3 to stop the recording. In the save box, ***label recording***, be sure to include the test name and VIN or TechAssist Case number and click ***OK.***



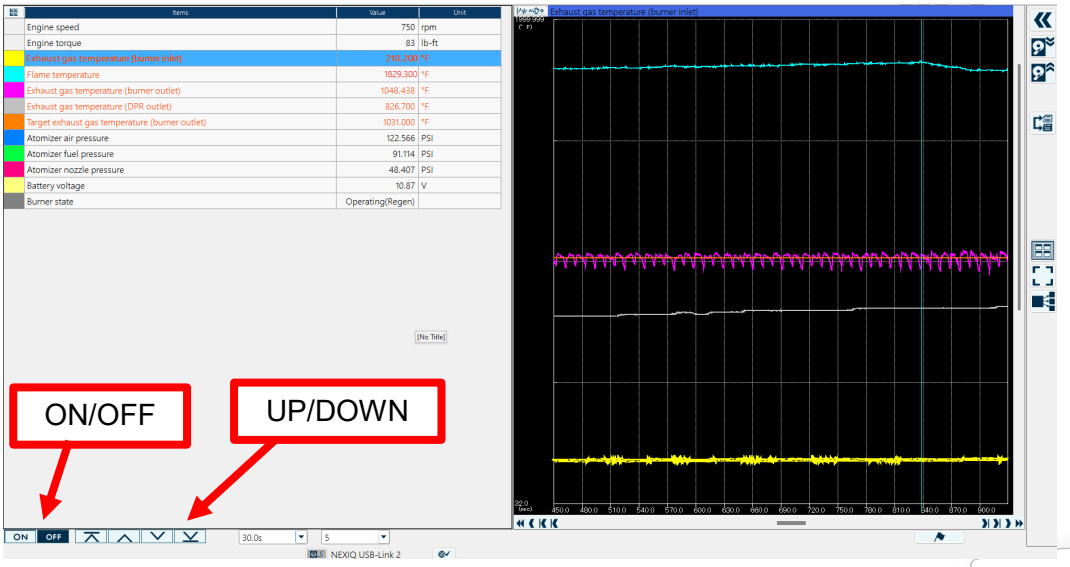
8. Click ***Read***, click on the **Work Date** header a couple times to sort recordings by work date.



9. Locate and select the recording to review, highlight and click ***Replay.***



10. Use ***ON/OFF*** toggle as shown below to change between parameters as needed. Red indicates a graphed parameter. Highlight parameter to toggle ***ON*** / ***OFF*** or change position by using ***UP / DOWN*** arrows.



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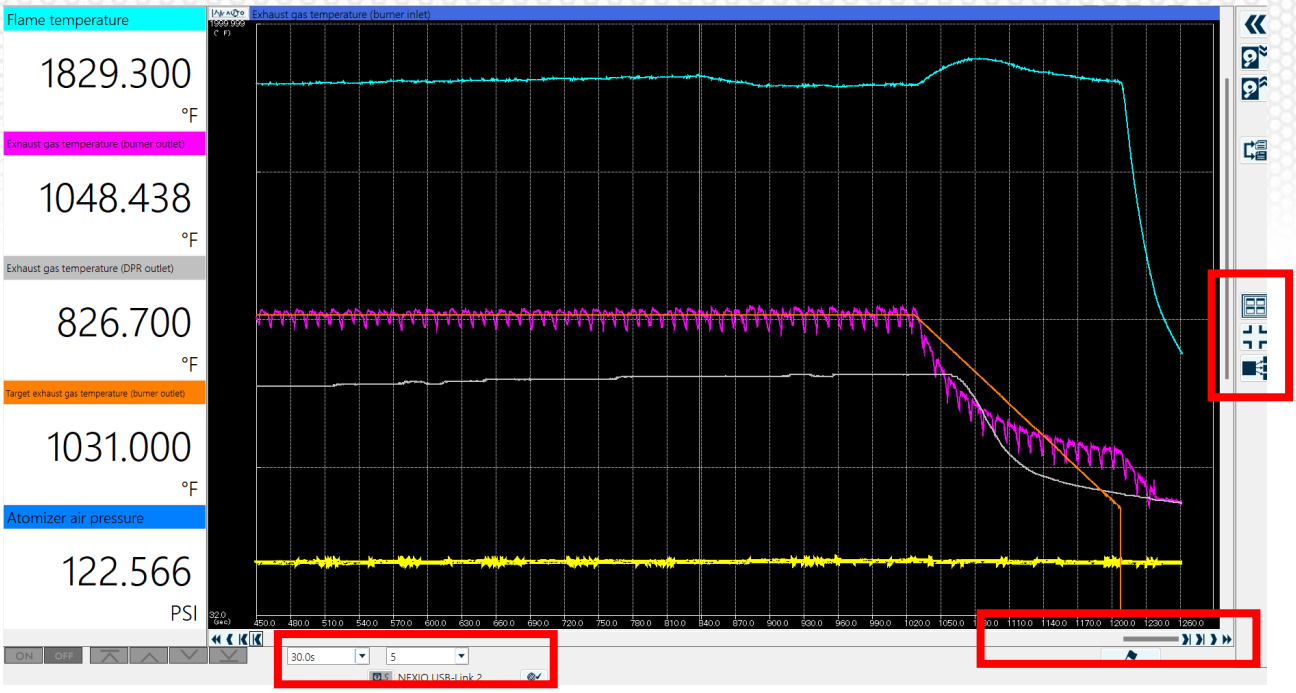
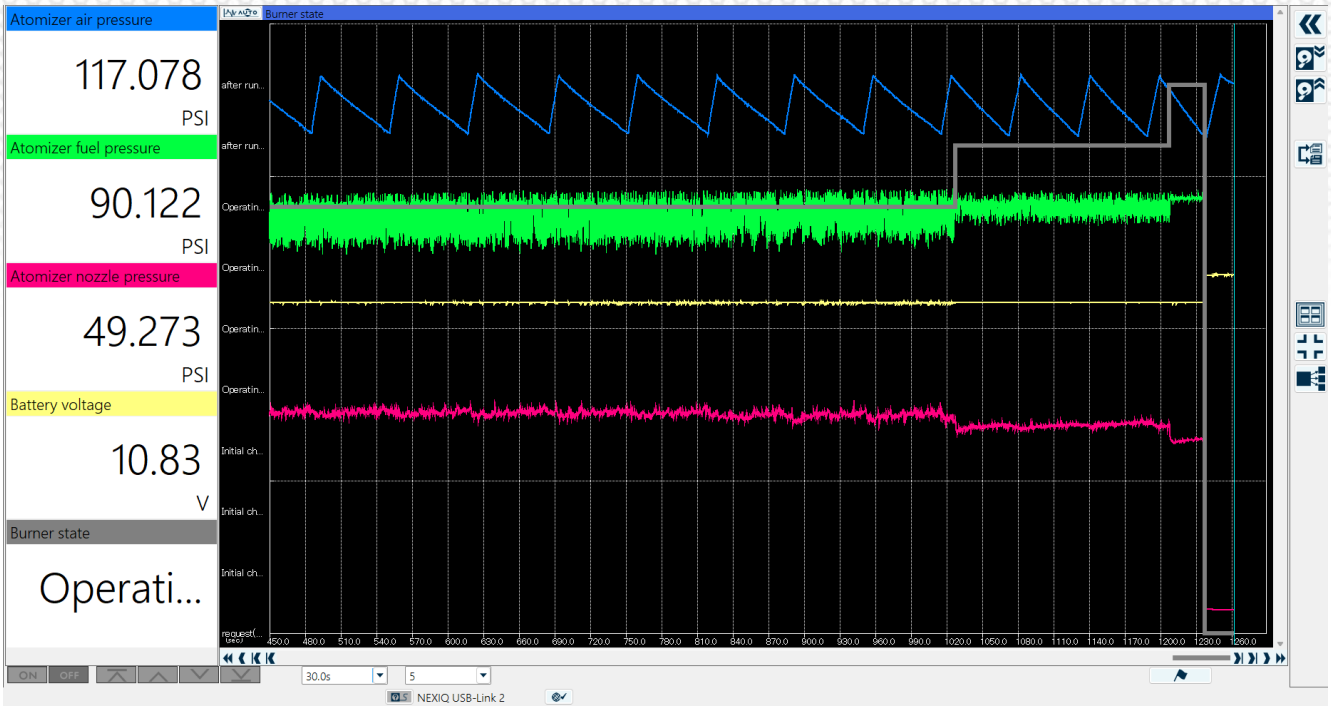
11. Select all five (5) temperature sensors to place in one graph. Use graph type, time and slide bar to review data.



12. Graph the three (3) atomizer sensors, burner state and battery voltage together.



13. Engine Torque can be graphed alone if needed, as additional data to make judgement.

Note: Refer to our DX3 training course as needed for any graphing questions.

Note: If you are not able to determine judgment, please follow **TechTip #22-019 Sending DX3 Files to TechAssist.** Create a TechAssist case outlining the customers concern, diagnosis performed and related DTC's, then attach file(s) for review.

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