ENGINE PERFORMANCE DIAGNOSIS

Meets NATEF Task: (A8-A-1) Identify and interpret engine performance concern; determine necessary action. (P-1)

Name _____ **Date** _____ **Time on Task** _____

Make/Model/Year _____ **VIN** _____ **Evaluation: 4   3   2   1**

(PLEASE CIRCLE ALL THAT APPLY IN ALL CATEGORIES)	
Describe Problem:	
When Did the Problem First Occur?	• Just Started • Last Week • Last Month • Other _____
List Previous Repairs in the Last 6 Months:	
Starting Problems	• Will Not Crank • Cranks, But Will Not Start • Starts, But Takes A Long Time
Engine Quits or Stalls	• Right After Starting • When Put Into Gear • During Steady Speed Driving • Right After Vehicle Comes To A Stop •While Idling • During Acceleration • When Parking
Poor Idling Conditions	• Is Too Slow At All Times • Is Too Fast •Intermittently Too Fast or Too Slow • Is Rough or Uneven • Fluctuates Up and Down
Poor Running Conditions	• Runs Rough • Lacks Power • Bucks and Jerks • Poor Fuel Economy • Hesitates or Stumbles On Acceleration • Backfires • Misfires or Cuts Out • Engine Knocks, Pings, Rattles • Surges • Dieseling or Run-On
Auto. Transmission Problems	• Improper Shifting (early/late) • Changes Gear Incorrectly • Vehicle Does Not Move When In Gear • Jerks or Bucks
Usually Occurs	• Morning • Afternoon • Anytime
Engine Temperature	• Cold • Warm • Hot
Driving Conditions During Occurrence	• Short-Less Than 2 Miles • 2-10 Miles • Long-More Than 10 Miles • Stop and Go • While Turning • While Braking • At Gear Engagement • With A/C Operating • With Headlights On • During Acceleration • During Deceleration • Mostly Downhill • Mostly Uphill • Mostly Level • Mostly curvy • Rough Road
Driving Habits	• Mostly City Driving • Highway • Park Vehicle Inside • Park Vehicle Outside **Drive Per Day:** • Less Than 10 Miles • 10-50 • More Than 50
Gasoline Used	**Fuel Octane:** • 87 • 89 • 91 • More Than 91 **Brand:** _____
Temperature When Problem Occurs	• 32-55° F • Below Freezing (32° F) • Above 55° F
Check Engine Light/ Dash Warning Light	• Light on Sometimes • Light on Always • Light Never On
Smells	• "Hot" • Gasoline • Oil Burning • Electrical
Noises	• Rattle • Knock • Squeak • Other