



## 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)   |  |
|--|--|
| <b>Describe Problem:</b>                           |  |
| <b>When Did the Problem First Occur?</b>           | <ul style="list-style-type: none"> <li>• Just Started      • Last Week      • Last Month</li> <li>• Other _____</li> </ul>   |
| <b>List Previous Repairs in the Last 6 Months:</b> |  |
| <b>Starting Problems</b>                           | <ul style="list-style-type: none"> <li>• Will Not Crank   • Cranks, But Will Not Start   • Starts, But Takes A Long Time</li> </ul>  |
| <b>Engine Quits or Stalls</b>                      | <ul style="list-style-type: none"> <li>• Right After Starting   • When Put Into Gear   • During Steady Speed Driving</li> <li>• Right After Vehicle Comes To A Stop   • While Idling   • During Acceleration</li> <li>• When Parking</li> </ul>  |
| <b>Poor Idling Conditions</b>                      | <ul style="list-style-type: none"> <li>• Is Too Slow At All Times   • Is Too Fast   • Intermittently Too Fast or Too Slow</li> <li>• Is Rough or Uneven   • Fluctuates Up and Down</li> </ul>  |
| <b>Poor Running Conditions</b>                     | <ul style="list-style-type: none"> <li>• Runs Rough   • Lacks Power   • Bucks and Jerks   • Poor Fuel Economy</li> <li>• Hesitates or Stumbles On Acceleration   • Backfires   • Misfires or Cuts Out</li> <li>• Engine Knocks, Pings, Rattles   • Surges   • Dieseling or Run-On</li> </ul>   |
| <b>Auto. Transmission Problems</b>                 | <ul style="list-style-type: none"> <li>• Improper Shifting (early/late)   • Changes Gear Incorrectly</li> <li>• Vehicle Does Not Move When In Gear   • Jerks or Bucks</li> </ul>   |
| <b>Usually Occurs</b>                              | <ul style="list-style-type: none"> <li>• Morning   • Afternoon   • Anytime</li> </ul>  |
| <b>Engine Temperature</b>                          | <ul style="list-style-type: none"> <li>• Cold   • Warm   • Hot</li> </ul>  |
| <b>Driving Conditions During Occurrence</b>        | <ul style="list-style-type: none"> <li>• Short-Less Than 2 Miles   • 2-10 Miles   • Long-More Than 10 Miles</li> <li>• Stop and Go   • While Turning   • While Braking   • At Gear Engagement</li> <li>• With A/C Operating   • With Headlights On   • During Acceleration</li> <li>• During Deceleration   • Mostly Downhill   • Mostly Uphill   • Mostly Level</li> <li>• Mostly curvy   • Rough Road</li> </ul> |
| <b>Driving Habits</b>                              | <ul style="list-style-type: none"> <li>• Mostly City Driving   • Highway   • Park Vehicle Inside   • Park Vehicle Outside</li> <li><b>Drive Per Day:</b>   • Less Than 10 Miles   • 10-50   • More Than 50</li> </ul>  |
| <b>Gasoline Used</b>                               | <b>Fuel Octane:</b> • 87   • 89   • 91   • More Than 91<br><b>Brand:</b> _____   |
| <b>Temperature When Problem Occurs</b>             | <ul style="list-style-type: none"> <li>• 32-55° F   • Below Freezing (32° F)   • Above 55° F</li> </ul>  |
| <b>Check Engine Light/Dash Warning Light</b>       | <ul style="list-style-type: none"> <li>• Light on Sometimes   • Light on Always   • Light Never On</li> </ul>  |
| <b>Smells</b>                                      | <ul style="list-style-type: none"> <li>• “Hot”   • Gasoline   • Oil Burning   • Electrical</li> </ul>  |
| <b>Noises</b>                                      | <ul style="list-style-type: none"> <li>• Rattle   • Knock   • Squeak   • Other</li> </ul>  |