

# Ignition Scope Analysis

**Meets NATEF Task:** (A8-C-1) Inspect and test ignition primary and secondary circuit wiring and solid state components; test ignition coil(s); perform necessary action. (P-1)

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

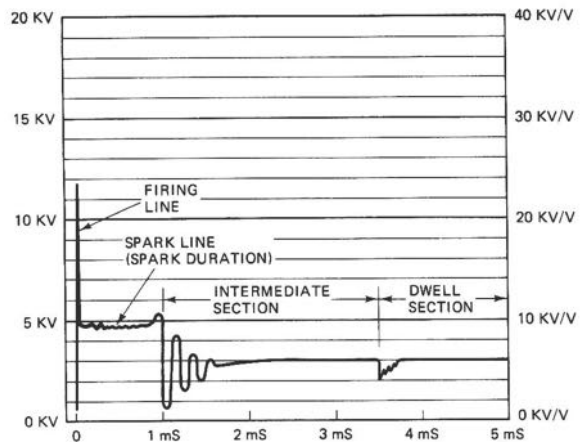
\_\_\_\_\_ 1. Check service information regarding the specified method for attaching and using a secondary circuit oscilloscope.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ 2. Type of ignition:

- \_\_\_\_\_ Distributor
- \_\_\_\_\_ Waste spark
- \_\_\_\_\_ Coil-on-plug



\_\_\_\_\_ 3. Connect the ignition scope to the system as per the scope manufacturer's instructions.

\_\_\_\_\_ 4. Brand of scope used: \_\_\_\_\_

\_\_\_\_\_ 5. Describe the hookup procedure. \_\_\_\_\_

\_\_\_\_\_ 6. Start the engine and observe the secondary ignition waveform.

	Firing Voltage (KV) (voltage should be 5-15 KV)	Spark Line Length (ms) (length should be 1-2 ms)
Cylinder #1	_____	_____
Cylinder #2	_____	_____
Cylinder #3	_____	_____
Cylinder #4	_____	_____
Cylinder #5	_____	_____
Cylinder #6	_____	_____
Cylinder #7	_____	_____
Cylinder #8	_____	_____

\_\_\_\_\_ 7. Based on the test results, what is the necessary action? \_\_\_\_\_