



Ignition Scope Analysis

Meets NATEF Task: (A8-C-1) Diagnose ignition system-related problems; determine necessary action (P-2)

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? _____