

[A.] Customer & Vehicle Information

Year/Make/Model:	Ticket #:
VIN:	Mileage:
Name:	Date:
Complaint / symptom:	

[B.] Verify Rich Condition

DTCs:

Condition	STFT B1	LTFT B1	STFT B2	LTFT B2
Idle	%	%	%	%
2,500 RPM	%	%	%	%

Fuel control: ☐ Open Loop ☐ Closed Loop Total fuel trim B1: % B2: %

Rich condition verified by negative trim / supporting evidence: ☐ Yes ☐ No

[C.] Fuel Quality & Composition

Fuel specific gravity: Measured ethanol: % Scan-tool ethanol:
% Flex-fuel capable: ☐ Yes ☐ No
Scan-tool fuel level: % Actual/measured fuel level: gal / %

[D.] Fuel Pressure / Commanded Pressure

Condition	Low-Side PSI	Desired High Pressure	Actual High Pressure
KOEO		—	—
Cranking			
Idle			
Part Throttle			
Under Load			

Direct injection equipped: ☐ Yes ☐ No / N/A High pressure follows command: ☐ Yes ☐ No

[E.] Injector Balance / Component Isolation

Cylinder	1	2	3	4	5	6	7	8
Pressure Drop PSI								

Maximum variance: PSI Injector fault indicated: ☐ Yes ☐ No Suspect cylinder:
Injector swap Cyl → Cyl Misfire/fault before after Followed injector: ☐ Yes ☐ No
Injector PCM power: V Trigger present: ☐ Yes ☐ No Wiring/connector integrity: ☐ Good ☐ Abnormal

[F.] Airflow / Vacuum Cross-Check

Cranking	Idle	Stabilized Idle	Part Throttle	Throttle Snap - Minimum
inHg	inHg	inHg	inHg	inHg

Intake restriction present: ☐ Yes ☐ No Intake/vacuum leak suspected: ☐ Yes ☐ No Smoke verified: ☐ Yes ☐ No

[G.] Ignition / Plug Evidence

Spark quality: ☐ Strong/consistent ☐ Weak/intermittent Issue cylinders:

Cylinder	1	2	3	4	5	6	7	8
Plug Condition								

Use [1039.1] Spark Plug Interpretation Chart to correlate dry-sooty / fuel-wet patterns with the measured fuel and ignition results.

[H.] Decision

☐ Fuel pressure/control abnormality ☐ Injector flow/control abnormality ☐ Fuel composition mismatch ☐ Airflow/ignition evidence supports rich operation ☐ Rich condition not verified ☐ Inconclusive