

EP-LAB 5

NATEF TASK SHEET --- SECTION A1, A.7 A8, A.10 P-1

EP-LAB5: ENGINE COMPRESSION TEST WET / DRY

Is your engine mechanically sound?

Student: _____ Date: _____ Period: _____

VIN: _____ Year: _____ Make: _____ Model: _____

Engine: _____ Transmission: _____ Production Date: _____

OBJECTIVE: Student will perform a dry/wet compression test and evaluate results.

- MATERIALS:**
1. **EYE PROTECTION**
 2. Hand Tools
 3. Compression Tester
 4. Oil Can
 5. Running Vehicle (see instructor)

PROCEDURE: WEAR EYE PROTECTION! . WATCH POWER POINT/VIDEO EP-LAB5.
 Locate and mark spark plug wires to ease reinstallation. Locate and remove spark plugs. Screw compression tester into #1 spark plug hole. Crank engine over 5-8 revolutions. Note compression tester reading and write down on skill sheet (Dry). Release pressure on tester. Add 1 Tsp oil to cylinder and repeat test (Wet). Repeat procedure for each consecutive cylinder. Document all compression readings. Reinstall spark plugs and wires. Start vehicle to assure smooth idle and correct plug wire installation. Determine if compression is within factory specifications. Document compression specifications.

DRY				WET			
CYLINDER#	PSI	CYLINDER#	PSI	CYLINDER#	PSI	CYLINDER#	PSI
1.		5.		1.		5.	
2.		6.		2.		6.	
3.		7.		3.		7.	
4.		8.		4.		8.	

LOOK-UP FACTORY SPECIFICATIONS: _____

What is it supposed to be?

ANY DIFFERENCE BETWEEN WET AND DRY RESULTS? _____

WHY? _____

RECOMMENDATIONS: _____

What needs to be done to the engine?

INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	<i>Initial</i>	OVERALL SKILL EVALUATION	<i>Points</i>
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)	
PERFORMS SATISFACTORILY (4)		SAFETY COMPLIANCE (1)	
CAPABLE, NEEDS PRACTICE (3)		WORK PROFESSIONALISM (3)	
ASSISTED IN PERFORMING (2)		LEVEL OF SKILL ATTAINED (1-5)	
EXPOSURE, OBSERVATION (1)		TOTAL SCORE	
INSTRUCTOR'S SIGNATURE: _____			

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