

## Crankcase Vacuum Test

### Reason:

To determine operation of breather, condition of seals, gaskets, rings, piston, and cylinder wall.

### Equipment:

- JTO3503 Vacuum Gauge
- JTO5703 Barb Fitting
- JTO5699 Line
- 8741-F66 Plug

### Procedure:

1. Park machine safely
2. Raise hood and remove oil dipstick.
3. Place plug and barbed fitting in dipstick tube until tight.
4. Cover barbed fitting with a plug or finger and start engine.
5. Quickly remove plug or finger from barbed fitting and attach hose and gauge.
6. Run engine at fast idle and record reading on gauge.
7. Run engine at slow idle. Do not turn engine off.
8. Disconnect hose and quickly place plug or finger over barbed fitting.
9. Turn engine off.
10. Remove plug and install oil dipstick.

### Results:

If crankcase vacuum is less than specification, check:

- breather reed valve clearance and condition.
- seals and gaskets for leakage.
- valve cover gasket for leakage.
- rings, piston and cylinder wall for wear or damage.
- valve and valve seats for wear or damage.
- head warp.

### Crankcase Vacuum (minimum):

Water Movement. . . . . 25.4 cm (10 in.)

Hg (mercury) Movement . . . . . 18.7 mm (0.74 in.)

## Cylinder Leakdown Test

### Reason:

To check sealing of piston rings and cylinder bore.

### Equipment:

- JTO3502 Cylinder Leak Tester

### Procedure:

1. Remove hood assembly. "Hood Removal and Installation" on page 309 in the Miscellaneous section.



**Caution: Avoid Injury! Engine will be HOT. Do not touch with bare skin, especially the exhaust pipe or muffler while making test.**

2. Warm engine to operating temperature, then stop engine.
3. Move transaxle shift lever to NEUTRAL. Lock park brake.



4. Remove the flywheel screen. Use a socket with a breaker bar (A) on the flywheel nut to hold the flywheel in position when performing the test.



**Caution: Avoid Injury! Before attaching adapter hose (F) hose to tester, make sure another person is holding on tight to the breaker bar and the engine is at TDC. When compressed air is applied, there will be considerable torque forcing piston and crankshaft to turn.**

# La130 Owners Manual Deere

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