

Fan Speed Test

-: Specifications

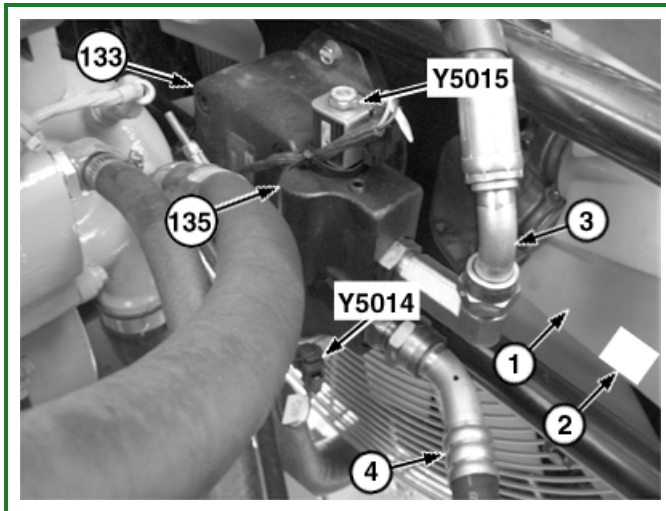
SPECIFICATIONS	
Hydraulic Oil Temperature	50—60°C 120—140°F
Engine Speed	Fast Idle
Work Mode Switch Position	Bucket Mode
Power Mode Button Position	PWR (power) Mode
Auto-Idle Switch Position	OFF
Engine Fan Speed	1400 rpm
Engine Fan Speed (above 1660 m [5450 ft] altitude)	1550 rpm

-: Service Equipment and Tools

SERVICE EQUIPMENT AND TOOLS
JT05709 Reflective Tape
JT05719 Handheld Digital Tachometer

Use this procedure when diagnosing system overheating problems. [See Hydraulic Oil Overheats](#) . (Group 9025-15.)

1.



TX1162222A-UN: Fan Speed and Reversing Control Valve

LEGEND:

- 1 - Fan Blade
- 2 - Reflective Tape
- 3 - Pump Pressure Line
- 4 - Return Line (fan control valve to hydraulic oil tank)
- 133 - Fan Drive Motor
- 135 - Fan Speed and Reversing Control Valve
- Y5014 - Variable Speed Fan Solenoid
- Y5015 - Reversing Fan Solenoid

Open engine hood and install JT05709 Reflective Tape (2) on one fan blade (1).

2. Use one of the following to display hydraulic oil temperature and actual engine speed.

1. Monitor application. See [Service Menu](#) for instruction to actuate the service menu on monitor in cab. (Group 9015-16.)

Select the following items from monitoring list:

- Hydraulic Oil Temperature
 - Actual Engine Speed
 - Engine Fan Speed
2. Service ADVISOR™ application. See [Service ADVISOR™ Connection Procedure](#) for instruction. (Group 9015-20.)

Select the following items from the menu:

- Hydraulic Oil Temperature
 - Actual Engine Speed
 - Engine Fan Speed
3. MPDr application. See [MPDr Application](#) for instruction. (Group 9015-20.)

Select the following items from the monitor display:

- Hydraulic Oil Temperature
- Actual Engine Speed
- Engine Fan Speed

3. Warm hydraulic oil to specification. See [Hydraulic Oil Warm-Up Procedure](#) . (Group 9025-25.)

Item	Measurement	Specification
Hydraulic Oil Temperature		50—60°C 120—140°F

4. Disconnect engine coolant temperature sensor (B5208). See [Engine Harness \(W4\) Component Location](#) . (Group 9015-10.)

5. Operate engine at specification.

Item	Measurement	Specification
Engine	Speed	Fast Idle
Work Mode Switch	Position	Bucket Mode
Power Mode Button	Position	PWR (power) Mode
Auto-Idle Switch	Position	OFF

6. Measure fan speed with JT05719 Handheld Digital Tachometer. Record result.

7. Compare reading to specification.

Item	Measurement	Specification
Engine Fan Speed		1400 rpm
Engine Fan Speed (above 1660 m [5450 ft] altitude)		1550 rpm

8. Verify with monitor that fan speed sensor (B5303) reading from monitor matches actual measured fan