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Front End Noise

Gear backlash causes noise on 5000 series tractors

PRINTER FRIENDLY

FEEDBACK

Symptoms

5000 series tractors with the 3 cylinder, 2.9L engine are assembled with spur cut gears in the front drive train. Spur cut gears are made with a backlash tolerance, which allows them to be slightly loose.

Summary

When the gears turn under a "no load" condition, the backlash will cause them to clank together. This is **normal**. When a hydraulic function is activated, a load will be transmitted across the gears and the noise should be eliminated.

The noise will be more pronounced at low engine speed. Proper engine idle speed should be 800-850 RPM. If your engine runs slower at the lowest throttle setting, alert your [John Deere dealer](#) at the next service interval for an adjustment.

Affected Equipment

- | | |
|----------------------|--------------|
| 5103 Tractor | 5105 Tractor |
| 5200 Tractor | 5203 Tractor |
| 5205 Tractor | 5210 Tractor |
| 5220 Tractor | 5300 Tractor |
| 5303 Tractor | 5310 Tractor |
| 5310N Narrow Tractor | 5320 Tractor |
| 5320N Narrow Tractor | 5400 Tractor |
| 5403 Tractor | |

Feedback

Did this tip answer your question?

- Fully answered question
- Partially answered question
- Did not answer question
- Answer does not apply to my question

This feedback will be used to improve the overall quality of our tip and troubleshooting offerings. We encourage you to contact your John Deere dealer for answers to more technical questions.

SEND

CLEAR