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Tech Tip #21

REVISED

Inspection and Service Intervals for Stemco Systems

Stemco recommends the following inspection and service intervals for the following long-life systems – the Platinum Performance System and Platinum Performance System Plus.

Simple Inspections

Timing: Performed during pre-trip and in-service.

Inspection consists of:

- Visually check for signs of lubricant leakage, such as seal, hubcap gasket, and/or brake linings.
- Check for broken, damaged, or abnormal components.
- Oil lubricated systems - Check through Sentinel Hubcap sight window to verify proper oil fill level and lubricant integrity.
- Grease lubricated wheel-ends should be inspected for any significant variation in hub temperatures upon in-service inspections. Seasonal influences should be taken into account.

Detailed External Inspections

Timing: Performed at 100,000 Miles - OR - at least annually.

Inspection consists of Simple Inspections plus:

- Oil Lubricated System
 - Check through Sentinel Hubcap sight window to verify proper oil fill level and lubricant integrity.
- Grease Lubricated System
 - Remove hubcap and check grease condition and fill level (semi-fluid only*)
 - If lubricant is contaminated – replace old lube with same type of lubricant
 - If lubricant is low, but in good shape – add lube with same type of lubricant
 - Inspect seal area (inboard side of wheel-end) for signs of lubricant leakage
 - Check for any signs of excessive endplay in wheel-end
 - Verify that wheel-end has smooth rotation
 - Inspect for any wheel-end abnormalities

Service Upon Completion of Warranty Period

Timing: Once Warranty Period is reached

Service consists of Simple Inspections plus Detailed External Inspections plus:

- If wheel-end is dismantled, replace seal and lube
- Replace other components as needed
- Perform standard, recommended wheel-end service (reference the Technology and Maintenance Council's RP 622 and RP 631A)

* When using semi fluid grease in a wheel-end, the only method to accurately check the lubricant level is by pulling the outer bearing.

** If at any point during these inspections a noticeable concern arises, perform a detailed wheel-end disassembly inspection.