

## 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. STEMCO recommends and follows the Technology and Maintenance Council's recommended practices – TMC RP 622 and RP 631.

### Simple Inspections

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

**Inspection consists of:**

- Visually check for signs of lubricant leakage, around seal, hub cap gasket.
- Check for broken, damaged or abnormal components.
- Oil lubricated wheel ends: Check through hub cap window to verify proper oil fill level and lubricant integrity.
- Semi-fluid grease lubricated wheel ends: Inspect 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 (based on TMC RP 631 – Level 2)**
  - ▶ Check through Sentinel® hubcap sight window to verify proper oil fill level and lubricant integrity.
- **Semi-fluid Grease Lubricated System (based on TMC RP 631 – Level 3)**
  - ▶ Lock brakes for wheel-end. Remove hub cap, spindle nut, outer bearing and check grease condition and fill level (recommended fill to 3 and 9). When using semi-fluid grease in wheel ends, the only method to accurately check the lubricant level and condition is by pulling the outer bearing.
- **Oil and Semi-fluid Grease Lubricated Systems**
  - ▶ 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.
- **If at any point during these inspections a noticeable concern arises, dismantle wheel end and replace seal, lube and other components as needed.**

### 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 (RP 622 and RP 631)

\* 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 arise

PLATINUM  
PERFORMANCE SYSTEM

PLATINUM PLUS  
PERFORMANCE SYSTEM