

October 31, 2014

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Tech Tip #34

REVISED

STEMCO Lubricant Criteria

Lubricants currently approved for use in STEMCO's PPS+ and PPS wheel end systems all meet the following requirements:

- The lubricant must be specified for wheel-end or drive applications.
- Lubricant Type/Grades:
 - Oil Synthetic/Mineral
 - Meets the requirements of SAE J2360 (MIL-PRF-2105E) or API GL-5/MT-1. Example of weights:
 - 75W-90, 80W-90
 - 80W-140, 85W-140
 - Semi Fluid Grease
 - Minimum Operating Temperature Limits of -20F to 325F [-29C to 162C]
 - Note: grease condition needs to be reviewed periodically during storage (i.e. separation and proper mixing) contact your lubricant provider for lubricant audit of quality.
 - Note: grease condition and fill needs to be reviewed following RP631 recommendations.

Any premium lubricant exhibiting the above characteristics and is listed by the lubricant manufacturer as a long life lubricant is approved for use. Both product specification information and lubricant compatibility should be obtained from the lubricant manufacturer.

Lubricants used for the STEMCO standard 1 year packages must be typical hard pack grease, gear lube, or semi-fluid greases designed for heavy duty wheel ends, such as those listed above.

STEMCO will not approve the use of its seals in wheel ends lubricated with 50 weight transmission lubes or motor oil. Wheel end performance can be compromised when these lubricants are used.

Fleet preference may play a part in the wheel end lubricant selection decision. Ultimately, the choice of wheel-end lubrication is a customer decision and responsibility. Please follow all related Technology & Maintenance Council recommended practices for wheel end maintenance such as RP 622, 624, 631, and 644.

Contact your STEMCO sales representative with questions or concerns

Examples of lubricants that have been tested:

- Mobil HD Plus 80W – 90
- Chevron Delo Synthetic 75W-90
- Mobil Delvac Synthetic Gear Oil 75W-90
- Eaton Roadranger 75W-90
- Kendall EBL Semi Fluid Grease
- Chevron Delo Synthetic Grease SF
- Castrol Syntec 75W/90
- Shell Spirax ASX 75W-90
- Shell Spirax HD 80W-90
- Chevron RPM Universal Gear Lubricant 80W-90
- Kendall SHP 75W – 90
- Citgo SynDurance 460 NLGI 00 Grease