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**Tech Tip #34****REVISED****STEMCO Approved Lubricants**

Wheel end lubrication has long been a matter of customer choice and specification. Lubrication properties vary widely in different products and can change over time. During the last few years, some fleets have experimented with different types of oils and greases in wheel ends. In some cases these lubrication selections have resulted in degraded wheel end performance.

For some time, STEMCO seals have been installed for use in 'any typical wheel end lubrication'. Currently, because of differences in lubrication additive packages including thickeners, soaps, corrosion inhibitors, and base oils, this practice will be altered.

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.

Lubricants currently approved for use in STEMCO's PPS+ and PPS wheel end systems are:

- 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
- Mobilith SCH 007 Semi Fluid Grease
- Castrol Syntec 75W/90
- Shell Spirax ASX 75W-90
- Shell Spirax HD 80W-90
- Chevron RPM Universal Gear Lubricant 80W-90

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. Seals are not tested in every possible lubricant due to the sheer number of lubricant products available and the fact that lube suppliers can change formulations without notice.

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, 631A, and 644.

Contact your STEMCO sales representative with questions or concerns.