



Canoil Canada Ltd.

“MEETING TOMORROW’S NEEDS TODAY”

MOV LONG LIFE GREASES **Re: Ecology, Environment & Energy**

‘GREEN’ AND COST SAVING ADVANTAGES FOR MOV LONG LIFE[®] GREASES

MOV Long Life is a state of the art grease with an advanced grease thickener and a highly refined base oil. It was specifically developed to meet power station user needs for better grease in the actuator gearboxes as well as to be ‘single’ grease for the stems and limit switch gearboxes.

In addition, MOV Long Life[®] grease can help users meet their cost savings and ‘green’ goals for the following reasons;

- 1.** Being a qualified for all three MOV applications means lower costs re less stocking of other greases and less chance of issues that might arise if a wrong grease is used in any particular application. Being qualified for safety and non-safety related applications helps as well.
- 2.** MOV Long Life grease is mainly a highly refined hydrotreated (white) oil. It has a lower aquatic toxicity (LC50) than some other mineral oil based alternatives that have been tested. In tests for daphnia aquatic toxicity testing it did very well for EP grease and meets the US Navy requirements for a 'green' open gear grease.
- 3.** In the leachate testing for landfill requirements MOV Long Life did not leach out any elements of concern. Mainly calcium which is not of concern and boron which is common in some household cleaning agents
- 4.** MOV Long Life contains neither added heavy metals nor added halogens like chlorine or fluorine and no added ozone depleting solvents.
- 5.** The LogP n-Octanol Partition Coefficient is <3 so by an EPA definition is non-bioaccumulative. This is good for the environment.
- 6.** Some users have reported that they can use much less MOV Long Life and that it lasts 3-4 times longer in service so this could contribute to a reduction of GHG (greenhouse gas emissions) because not as much grease is required so less would be released during grease manufacturing.

MOV Long Life Grease

NEWS RELEASE

‘GREEN’ ADVANTAGES FOR MOV LONG LIFE® cont’d

7. MOV Long Life grease can help US Federal Agencies meet the objectives in Executive Order (EO) 13514 calling on Federal agencies to establish an integrated strategy towards sustainability and to prioritize the reduction of GHG (green house gas) emissions. Among other initiatives, the EO requires agencies to advance sustainable acquisition to ensure that 95% of Federal purchases are "energy-efficient, water-efficient, biobased, environmentally preferable, non-ozone depleting, contain recycled content, or are non-toxic or less-toxic alternatives." Extracted from the December, 2010 TerraChoice newsletter.

8. MOV Long Life can be more energy efficient because it can perform longer in the applications and does not age harden or stiff as quickly as the previously used grease so that less energy is required to operate the valves. Plus having excellent corrosion protecting characteristics and good anti-wear characteristics damage to components should be less thereby maintaining efficiency longer.

9. The reliability and hence the availability of the valves can be better because of the superior performance and better anti wear and corrosion protecting characteristics. This should mean more uptime and consequently less down time. Less gear wear and less component damage should mean that overhauls will be quicker and less expensive so that fewer resources are used. This also means cost savings.

10. MOV Long Life grease has a stated shelf life of 5 years. The previously commonly used product had a stated shelf life only 1 year. The longer life can mean less testing and less discarding of stale grease. Plus less chance of post-dated grease being used by mistake.

11. The base oil in MOV Long Life is inherently biodegradable.

12. The base oil in MOV Long Life (80% of the finished grease) and the grease are both manufactured in ISO 14001 environmental management standard registered facilities.

MOV Long Life is available in tubes, pails, kegs and drums. Please contact us if you require specific references or more information.

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