

Lubrication Oil For Integral Gear Boxes That Meets H-1 Rating For Food Grade Oils

THERE ARE NO FOOD GRADE OILS THAT MEETS THE HECO, INC. REQUIREMENT FOR AN EP OIL. THE WARRANTY ON THE GEAR BOX WILL BE VOIDED WITH THE USE OF A NON-EP OIL. The following data is provided for those customers that **MUST** use an H-1 rated oil. The use of a non-EP oil will reduce the life of the gear box due to increased gear wear. The increased wear associated with a non-EP oil, in heavily loaded gear boxes, can lead to broken gear elements. The food grade oils listed under LUBRICATION OIL FOR INTEGRAL GEAR BOXES may be used in SELF-CONTAINED GEAR BOXES for those AGMA ranges not covered here, but they will have the same accelerated wear.

HECO, Inc. will inspect damaged gear boxes run on a food grade oil a service charge, if the damage was the result of defective parts or material, as determined by HECO, Inc. The inspection charge will be refunded and the gear box repaired or replaced under warranty.

The following oil data was either provided to HECO, Inc. by the noted manufacturers or found in their published data as their lubrication oil that most closely meets the HECO, Inc. gear box requirement. The information provided by the manufacturers is subject to change without notice by the oil producers. See HECO parts drawing for Lubrication requirements for your specific speed application.

	AGMA 2	AGMA 3	AGMA 5
AMOCO	FG Hyd Oil 68 ^{1,5}	FG Hyd Oil 100 ^{1,5}	
CHEVRON	Lubricating Oil FM 68 ^{1,5}	Lubricating Oil FM 100 ^{1,5}	Lubricating Oil FM 220 ^{1,5}
EXXON	None Listed		
MOBIL	None Listed		
PHILLIPS 66	None Listed		
SHELL	None Listed		
TEXACO	Cygnus 68 ^{1,5}		
UNOCAL 76	None Listed		

Standard Oil Notes: May Not Apply To All Oils Listed

- ¹ This oil is approved for the food industry with a USDA listing of H1.
 - ² Note 2 deleted.
 - ³ This oil has a zinc additive for mild EP protection.
 - ⁴ This oil is an AGMA 4.
 - ⁵ This oil has an anti-wear additive for mild EP protection.
 - ⁶ These oils have true EP capability and are therefore recommended for heavily loaded applications.
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