

DESIGN information

SPX COOLING TECHNOLOGIES

Marley® Geareducer® Lubricants

It is critical to the operational life of a transmission to utilize a satisfactory lubricant that includes the correct viscosity grade and additives. Additionally, it should be within the specific limitations of contaminants and fill volume throughout the machine's lifetime. Below, are general descriptions of specific lubricants commercially available for use in Marley Geareducers. Refer to the relevant Geareducer user manuals for further information regarding lubricant maintenance.

The attached table lists several mineral oils that are in accordance with the most recent edition of AGMA 9005 requirements for rust and oxidation inhibited gear oils. The synthetic listings, according to the manufacturers, meet the requirements for severe duty use, however, only Marley Gearlube™ satisfies the requirements of a Marley 5-Year Warranty. If lubricants, other than those listed, are used, they must not contain any additives—such as detergents or E.P. additives—which are adversely affected by moisture and could reduce the service life of the Geareducer.



Normal Duty Mineral Oil - Less than 110° F (44° C) Ambient Conditions at Geareducer

Lubricants shall be turbine type mineral oil. These oils should be oxidation, corrosion and rust inhibited, anti-foam treated and should have good demulsification characteristics. Marley Geareducers are designed in such a manner that the use of lubricants containing E.P. additives are neither required nor recommended.

Synthetic, High Temperature or Severe Duty

Lubricants shall be synthesized hydrocarbon (synthetic) oil. These lubricants shall be compatible with the following elastomeric materials: fluorocarbon, polyacrylate, polyurethane, silicone, ethylene/acrylic, chlorinated polyethylene, polysulfide and Buna N. The oils should be wax free, oxidation, corrosion and rust inhibited, antifoam treated and should have good demulsification characteristics. Marley Geareducers are designed in such a manner that the use of lubricants containing E.P. additives are neither required nor recommended.

Supplier	ISO 150	ISO 220
Normal Duty - Mineral Oil		
SPX Cooling Technologies, Inc.	Mineral Turbine Type ISO 150	Mineral Turbine Type ISO 220
Ashland Inc.	Valvoline R&O 150	Valvoline R&O 220
BP Lubricants	Turbinol HL-C150	Turbinol HL-C 220
Chevron USA, Inc.	Regal R&O 150	Regal R&O 220
Citgo Petroleum Corp.	Pacemaker 150	Pacemaker 220
Citgo Petroleum Corp.	Pacemaker T-150	n/a
ConocoPhillips	Multipurpose R&O 150	Multipurpose R&O 220
ExxonMobil Corp.	DTE Oil Extra Heavy	DTE Oil BB
ExxonMobil Corp.	Teresstic 150	Teresstic 220
Lubrication Engineers Inc.	Monolec 6404	Monolec 6405
Petronas	GearSTR 150	GearSTR 220
Shell	Morlina 150	Morlina 220
Shell	n/a	Morlina SD 220
Total	n/a	Carter VP/CS 220
Severe Duty - Synthetic		
SPX Cooling Technologies, Inc.	Marley Gearlube™ ISO 150	Marley Gearlube™ ISO 220
Chevron USA, Inc.	Clarity 150 Synthetic	Clarity 220 Synthetic
Citgo	Citgear Synthetic HT 150	Citgear Synthetic HT 220
ConocoPhillips	Syncon R&O 150	Syncon R&O 220
ExxonMobil Corp.	SHC 629	SHC 630
Shell	Omala RL 150	Omala RL 220

Commercially available lubricants with manufacturer claims of compatibility.



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