

PLANT ENGINEERING'S Interchangeable lubricants

Joseph L. Paszke, Senior Editor, Plant Engineering Magazine

When, where, how much, and with what — these are the fundamental questions that have to be answered in equipment lubrication. The answers are normally provided by the builders of process and manufacturing equipment.

However, maintenance personnel must sometimes address the "with what" question when finding substitutes for previously used lubricants. This exclusive guide, published at 3-yr intervals, provides quick identification of major lubricant sources and cross referencing of products.

The ideal lubricant would last forever and retain all of its properties. In reality, leaks, evaporation, heat, oxidation, and contamination combine to limit its service life. Properly answering the "when" question requires monitoring, by means of oil analysis, which is a fundamental component of modern lubrication and preventive/predictive maintenance programs.

Regular laboratory analysis indicates the health of both lubricant and machine. Viscosity, contamination, oxidation, acidity, and metals content are examples of parameters analyzed.

The "where" and "how much" concerns are good candidates for the visual approach to total productive maintenance. For example, lube fittings, filler caps, oil cans, and grease guns can be color-coded for the type



of lubricant and the point of application. Captive plastic dirt caps for zerk fittings are available in a variety of colors. Color-coding is often carried over to lube diagrams, which are laminated and attached to equipment or carried on lube routes.

Using the guide

This exclusive guide presents products from 118 companies who responded to our request for information. Some chose not to respond and you will find them missing. Product names, listed in each category, were provided by the manufacturers.

Presenting the data does not reflect the quality of the lubricant, imply the performance expected under particular operating conditions, or serve as an endorsement. Lubricant and equipment manufacturers should be consulted for specific applications or questions.

Viscosity a key factor

Viscosity is the property most widely accepted for identifying lubricants within a category. This characteristic serves as the basis for PLANT ENGINEERING magazine's product listings. Viscosity can be specified in several ways. The Viscosity/grade comparison chart compares commonly used systems. In this guide, lubricants within each category are arranged according to ISO viscosity grade, with the corresponding Saybolt viscosity shown for reference.

Viscosity/grade comparison chart

ISO viscosity grade	Kinematic viscosity Cst @ 40 C	Saybolt viscosity SUS @ 100 F	Gear lubricant specification	EP gear lubricant	Worm gear lubricant
2	1.98-2.42	32	-	-	-
3	2.88-3.52	46	-	-	-
4	4.14-5.06	68	-	-	-
7	6.12-7.48	100	-	-	-
10	9-11	150	-	-	-
15	13.2-16.3	220	-	-	-
22	19.8-24.2	320	-	-	-
32	28.8-35.2	460	-	-	-
46	41.4-50.6	680	AGMA 1	-	-
68	61.2-74.8	1000	AGMA 2	EP 2	-
100	90-110	1500	AGMA 3	EP 3	-
150	132-163	2200	AGMA 4	EP 4	-
220	198-242	3200	AGMA 5	EP 5	-
320	288-352	4600	AGMA 6	EP 6	-
460	414-506	6800	AGMA 7	EP 7	Comp 7

Note that this guide covers only mineral oil-based products. A similar approach could be published for synthetic lubricants (PAO, Poly 2000, p. 36, July 2003). The guide is available on our web site at www.plantengineering.com from the website, and from other sites the July 2003 issue.



Interchangeable Lubricant Guide

Zhe Xu



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frelander 1 timing belt change landyzone land rover forum - Oct 06 2022

web nov 7 2022 location france nov 7 2022 1 hi everyone i m trying to change the timing belt on my 1 8 frelander it has been done last in 2011 i ve positioned the pulley to tdc locked the fly wheel with a special tool and removed the big pulley wheel as you can see in the picture the cog is not aligned correctly

timing mark 2003 frelander 2003 land rover frelander fixya - May 01 2022

web source timing marks on frelander on 2 5 v6 the timing mark for the intake and exhaust are on the drivers side there are 2 marks on each gear 180 degrees apart you line all four up normally there is a tool that you use but it is possible to do it without i made my own tools the front mark is on the block when you pull the harmonic balancer

2005 land rover frelander v6 timing marks please justanswer - Mar 31 2022

web jul 23 2022 i need information on a land rover frelander es 5 door v6 year 2000 i think the engine is a 4 2cc i need to know of the timing setting the mark locations on the belt pullies it would be better i

how to set timming for a frelander td4 diesel 1998 model - Jul 03 2022

web aug 5 2016 unfortunately all i can tell you is that the easiest way to get the timing right is to place the motor at top dead center so all the timing marks line up then mark the old timing belt and gears with a paint pen then transfer the marks from the old belt to the new belt and line up those marks to the marks on the gears

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dayco tech frelander td4 timing belt kit installation - Apr 12 2023

web jan 12 2016 the 2 2 litre td4 diesel engine used in the frelander 2 features a timing belt driven water pump then with the front right wheel removed take off the cowling inside the wheel arch to reveal the auxiliary drive system

land rover frelander 2 timing marks 4x4 community - Dec 08 2022

web apr 29 2018 advise please i found three marks on my flywheel no locking hole plate through the block kindly advise on which mark to time on the hole is under a small plastic cover on the bottom of the starter mounting lock camshaft first then the correct hole on flywheel will line up