

TEXAS REFINERY CORP GREASE RECOMMENDATION GUIDE

CUSTOMER'S NAME:		ADDRESS:
EQUIPMENT:		UNIT NUMBER:
IS BASE GREASE SPECIFIED?	IS GRAPHITE OR MOLY DESIRED?	WHAT NLGI # RECOMMENDED? ☐ 00 ☐ 0 ☐ 1 ☐ 2 ☐ 3
IS HIGH SPEED INVOLVED? ☐ YES . . . RPM? ☐ NO	IS HIGH PRESSURE A FACTOR? ☐ YES . . . Timken Load? ☐ NO	NEED MOISTURE RESISTANCE? ☐ YES . . . WHY? ☐ NO
MAXIMUM OPERATING TEMPERATURES LOW _____ HIGH _____	WHAT TEXTURE IS DESIRED?	MISC.
BEST RECOMMENDATION:		
SECOND RECOMMENDATION:	THIRD RECOMMENDATION:	

USE the word **PATES** to help ask the right questions to help choose the right grease.

P = Pressure — Some equipment requires an extreme pressure grease. Most equipment will specify what minimum Timken Load Test rating is required (if any). It will be in terms of pounds.

A = Application — You need to know how the grease is going to be applied. For example: Is the grease dispensing equipment a manual grease gun, making tube grease the recommendation, or an automatic centralized system, making barrels or 120-lb. kegs the recommendation.

T = Temperature — Most grease applications don't go over 150°F. but you have several high temperature greases available. Cold temperatures usually require lightweight greases.

E = Environment — You need to know if the grease is going to be in a wet or dry area. Will the use be inside in a clean area or outside and therefore subjected to more dust, dirt, rain, etc.?

S = Speed — High speed is considered to be anything over 1,500 R.P.M. Heavy oils and greases usually do not do well in high speed applications. For example, Lithplex and 880 C&C are better at high speed than Hi-Temp.

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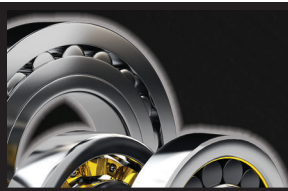


GREASE APPLICATION GUIDE



A HANDY GUIDE TO THE CORRECT RECOMMENDATION

(This Guide helps answer the most frequently asked questions concerning grease recommendations. In some lubricating areas, there may be additional questions. This is intended to be a basic guide for most Grease Applications.)



TRC GREASE APPLICATION GUIDE

NAME	THICKENER TYPE	CONTAINS MOLY, GRAPHITE, ZINC OXIDE	NLGI#	HIGH SPEED	EXTRA PRESSURE QUALITIES	MOISTURE RESISTANCE	PUMPABLE COLD TEST	*RECOMMENDED MAX. OPERATING TEMPERATURE	DROP POINT TEMPERATURE	TEXTURE	REMARKS
880 CROWN & CHASSIS GREASE®	CALCIUM 12-HYDROXYSTEARATE	NO	#2 #1 #0 #00	EXCELLENT	#2-100 LBS. MIN. #1-100 LBS. MIN. OTHERS 80 LBS. MIN.	EXCELLENT	#2 - 5°F #1 - 15°F #0 - 20°F #00 - 30°F	+275°F	+310°F	STRINGY	EXCELLENT in wide range of applications, resistant to moisture. Adhesive & cohesive. TEXAS REFINERY CORP's best selling grease. NLGI #00 is our lightest weight of extreme pressure grease with 80 lb. Timken, Min.
HI-TEMP GREASE	INORGANIC CLAY	NO	#2	FAIR	TIMKEN - OK 55 LBS. MIN.	GOOD	#2 0°F	+450°F	NONE	SMOOTH-BUTTERY	For extreme heat conditions, non-melt. Good for conveyor bearings on high temperature ceramic and paint baking ovens. NLGI #1 good for automatic lube systems.
MOLY 880 CROWN & CHASSIS®	CALCIUM 12-HYDROXYSTEARATE	5% MOLY	#2 #1	GOOD	TIMKEN - OK 80 LBS. MIN.	EXCELLENT	#2 -5°F #1 -15°F	+275°F	+310°F	STRINGY	Excellent in wide range of applications, equal to 880 C&C. Meets and exceeds CATERPILLAR specifications. Anti-wear for articulating machinery. Adhesive and cohesive. Resists moisture.
MOLY HI-TEMP GREASE	INORGANIC CLAY	3% MOLY	#2	FAIR	TIMKEN - OK 55 LBS. MIN.	GOOD	0°F	+450°F	NONE	SMOOTH - BUTTERY	Excellent for high heat conditions where Moly is desired. Economical 3% Moly grease. Anti-wear for articulating machinery. Has “staying power”.
MOLY PARAGON® 3000	CALCIUM-LITHIUM COMPLEX	5% MOLY	#2 #1	GOOD	TIMKEN - OK OK 80 LBS. MIN.	EXCELLENT	#2 -5°F #1 -15°F	+570°F	+630°F	STRINGY	Excellent in wide range of applications, including most bearings, pins, bushings, cam and slide mechanisms, chains, and chassis points. Meets and exceeds Caterpillar specs. Resists moisture withstands high shock loading, and handles high heat. Adhesive and cohesive.
PARAGON® 3000	CALCIUM - LITHIUM COMPLEX	NO	#2 #1 #0	GOOD	#2 - 100 LBS. MIN. #1 - 100 LBS. MIN. #0 - 80 LBS MIN.	EXCELLENT	#2 -5°F #1 -15°F #0 - 20°F	+570°F	+630°F	STRINGY	Truly a multi-purpose grease handling problems of high heat, high water contamination and extreme pressure. Replaces most greases.
TAKILUBE II	CALCIUM 12-HYDROXYSTEARATE	3% MOLY	#3	FAIR	TIMKEN - OK 80 LBS. MIN.	EXCELLENT	+20°F	+275°F	+310°F	TACKY-STRINGY	Excellent for exposed gears, fifth-wheels, trundles, and gear sets on yarders. Adhesive and cohesive. Greenish-grey color.

* With Frequent Lubrication

CLASSIFICATION OF GREASE BY NLGI CONSISTENCY NUMBERS

NLGI Number	ASTM Worked Penetration	
000	445-475	— Soft
00	400-430	
0	355-385	
1	310-340	
2	265-295	— Medium
3	220-250	
4	175-205	
5	130-160	
6	85-115	

The most commonly used consistency number is NLGI No. 2. Softer grades, especially 0 and 1, are often used for improved pumpability or low-temperature service. Harder or thicker greases are used where leakage and sealing are particular concerns.

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