



LE PRODUCTS
MANUFACTURED
UNDER AN ISO
9001:2000
CERTIFIED QUALITY
SYSTEM

9822-9846 SYNOLEC® GEAR LUBRICANT

***Essential for Critical Gear Applications where
reliability is a must.***

LE's SYNOLEC® Gear Lubricant is engineered to provide exceptional protection and extended gear life in all heavily loaded gearboxes that are exposed to extremes of high and low temperatures.

SYNOLEC® Gear Lubricant contains MONOLEC®, LE's proprietary wear-reducing additive to reduce friction and increase oil film strength. Withstands incredible loads and stress from heavy-duty service including energy applications such as those in pulverizer gear units. LE's SYNOLEC® Gear Lubricant can be filtered to below 3 microns without detrimental effect on performance. It does not break down over time, therefore providing a high return on investment (ROI) to the bottom line.

SYNOLEC® Gear Lubricant also has excellent oxidation stability contributing to long service life and reduced lubricant consumption.



Engineered with Clean Gear Technology to prevent deposit formation in high temperature applications.



SYNOLEC® Gear Lubricant is engineered with 100% synthetic base fluid to give excellent low and high temperature performance. SYNOLEC® Gear Lubricant will flow at exceptionally low temperatures to give you the highest degree of protection on even the coldest start-ups.

- Ⓛⓔ Exceptional low temperature characteristics
- Ⓛⓔ Can be filtered to 3 microns without detrimental effect on performance.
- Ⓛⓔ Greater stability, also contributing to long service life through enhanced oxidation stability.
- Ⓛⓔ High load carrying capacity through use of proprietary extreme pressure additives.
- Ⓛⓔ Cold weather flow properties, with dependable lubrication in low start-up conditions
- Ⓛⓔ Reduced lubricant consumption through low volatility and excellent oxidation stability.
- Ⓛⓔ Special blend of proprietary additives withstand high speed and variable temperatures in applications.
- Ⓛⓔ Prevents micro-pitting or "gray-staining" of gears.

**LUBRICATION
ENGINEERS,® Inc.**

Leaders in Lubricants



PHYSICAL CHARACTERISTICS – TYPICAL:

	9822	9832	9846
ISO Grade	220	320	460
AGMA Grade	5EP, 5S	6EP, 6S	7EP, 7S
Gravity, °API	33.2	32.8	32.4
Viscosity			
SUS @ 100°F	1151	1663	2429
SUS @ 210°F	129	171	231
cSt @ 40°C	223	322	469
cSt @ 100°C	26.4	35.4	48.1
Viscosity Index, min.	151	156	162
Flash Point, °F (°C)	351 (177)	464 (240)	462 (239)
Pour Point, °F (°C)	-26 (-32)	-20 (-29)	-15 (-26)
Color	Green	Green	Green

PERFORMANCE TEST RESULTS – TYPICAL:

Copper Strip Corrosion, ASTM D-130	1b	1b	1b
Timken EP, ASTM D-2782, lbs.	70	70	70
Rust Test, ASTM D-665B	Pass	Pass	Pass
Flender Foam Test	Pass	Pass	Pass
Flender Internal Coating Compatibility	Pass	Pass	Pass
FVA 54 Micropitting Test	Pass	Pass	Pass
FZG Test, Load Stage Pass	12	12	12
Four Ball EP			
LWI	80.6	85.2	89.1
Weld Point, kg	400	400	400
Four Ball Wear, ASTM D4172 B, mm.	.29	.28	.27
Foam Test, ASTM D892	0/0;0/0;0/0	0/0;0/0;0/0	0/0;0/0;0/0

MEETS PERFORMANCE REQUIREMENTS OF:

Flender	U.S. Steel 224
AGMA 9005-E02	GMLS-2
Cincinnati Machine	
DIN 51517 (3)	
FVA 54 Micropitting	



LUBRICATION
ENGINEERS,® Inc.

Leaders in Lubricants

