



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

8420-8450 MONOLEC® GFS ENGINE OIL

*A Technologically Superior Single Grade
Engine Oil Designed for Diesel Engines*



LE's MONOLEC® GFS Engine Oils are a family of SAE 20W through 50 straight-grade engine oils formulated for extended drain service in both on-road and off-road diesel engines. They contain MONOLEC®, LE's exclusive wear-reducing additive, which has proven to reduce wear by 24.2% in radioactive wear tests.

BENEFICIAL PROPERTIES:

- Formulated using high quality, paraffinic base fluids which have been found to provide excellent oxidation resistance and film strength.
- Exceptional detergency to control the formation of deposits in the piston ring zones and valve areas, keeping an engine clean.
- Primarily specified for engines but sometimes used in industrial applications, such as air compressors.
- Excellent oxidation stability and detergency that allows for extended drain intervals in diesel engines.
- Contains MONOLEC®, LE's proprietary wear-reducing additive.
- Delivers longer effective oil life than any ordinary engine oil.
- Reduces oil consumption.
- Protects against rust and corrosion.
- Available SAE Grades:

8420-SAE 20W	8430-SAE 30
8440-SAE 40	8450-SAE 50

WHAT IS MONOLEC®?

MONOLEC® is LE's exclusive wear-reducing additive which has proven its extraordinary performance in thousands of applications. It is an invaluable component in LE's engine oils, industrial oils and other lubricants bearing the MONOLEC® trademark.

MONOLEC® creates a singular molecular lubricating film on the metal surface, vastly increasing film strength without affecting tolerances. MONOLEC® allows opposing surfaces to slide by one another, greatly reducing friction heat and wear.



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8420-8450 TECHNICAL DATA

PHYSICAL CHARACTERISTICS - TYPICAL:

	8420	8430	8440	8450
SAE Grade	20W	30	40	50
Gravity, °API	29.8	29.0	28.4	27.6
Viscosity				
SUS @ 100°F	307	490	766	1017
SUS @ 210°F	55.0	66.0	82.3	97.8
cP -15°C ASTM D5293, max	9,500	---	---	---
cP -20°C ASTM D4684, max	60,000	---	---	---
cSt 40°C	66.2	105.7	165.4	219.5
cSt 100°C	8.76	11.88	16.10	19.84
HTHS Viscosity @ 150°C, cP ASTM D4683	2.74	3.57	4.49	5.40
Viscosity Index, min	95	95	95	95
Flash Point, °F (°C)	405 (208)	425 (218)	450 (232)	475 (246)
Pour Point, °F (°C)	-22 (-30)	-17 (-27)	-11 (-24)	0 (-18)
Total Base Number (TBN)	10	10	10	10
Sulfated Ash, Mass%	1	1	1	1
Color	Red	Red	Red	Red

MEETS THE PERFORMANCE OF:

API CF, CF-2 (Licensed)	Mack EO-K & EO-K2
API SJ (Un-licensed)	GM 6094 M
Caterpillar TO-2	Daimler Benz 226.0 & 227.0
Allison C-4 Demonstration (SAE 30)	VW 501.01

RECOMMENDATIONS:

Not for use in equipment with silver alloy bearings, such as EMD (Electro-Motive Division of GM). With any engine oil, it is good practice to employ a used oil monitoring program to safely optimize extended drain intervals.



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