



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 wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing oil film strength without affecting clearances. An invaluable component in LE's engine oils, industrial oils and many of its other lubricants, 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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