

HyFilm® LEO SAE 15W-40 Engine Oil

HyFilm® LEO uses proven technology to protect modern diesel engines in harsh environments while extending service intervals to save time, expense and natural resources. **HyFilm LEO** is designed to meet the rigorous demands of today's high output, low emissions diesel engines and is also backward compatible to provide lubrication across the entire range of 4-stroke diesel engines.

HyFilm LEO SAE 15W-40 Official Approvals:

API CK-4, CJ-4, CI-4	Ford WSS-M2C171-F1	Renault VI RLD-4
Volvo VDS-4.5	Mack EOS-4.5	

HyFilm LEO SAE 15W-40 Meets or Exceeds:*

DDC Power Guard 93K222	Mercedes Benz 228.31	MTU Type 2.1
Cummins CES 20086	Caterpillar ECF-3	MAN 3575†
ACEA E9	Deutz DQC III-10 LA	JASO DH-2

* Guaranteed to meet or exceed specifications, not officially licensed.

† Meets or exceeds engine test requirements only

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES
SAE Grade	SAE J300	15W-40
Kinematic Viscosity, cSt @ 40°C	ASTM D445	112.4
Kinematic Viscosity, cSt @ 100°C	ASTM D445	15.0
Viscosity Index No.	ASTM D2270	139
CCS Viscosity, cP @ -20°C	ASTM D5293	5,520
High Temp High Shear Viscosity, cP @ 150°C @ 10⁶ s⁻¹	ASTM D4683	4.2
Density, kg/l @ 15.5°C	ASTM D1298	0.872
Pour Point, °F (°C)	ASTM D97	-22 (-30)
Flash Point, °F (°C)	ASTM D92	446 (230)
Noack Volatility, % wt. loss	ASTM D5800	10
TBN (Total Base Number)	ASTM D2896	10
TBN (Total Base Number)	ASTM D4739	7
Sulfated Ash, % wt.	ASTM D874	1.0
Sulfur, % wt.	ASTM D4951	0.35
Phosphorus, %wt,	ASTM D4951	0.10
Color		Amber

WARRANTY:

When properly stored and used in accordance with instructions, any material not satisfactory will be replaced with any product in our line on a dollar for dollar basis provided the account is paid in full when due and Hydrotex is notified in writing within 12 months of the date of the order by the customer.

Hydrotex® is a manufacturer and distributor of high performance lubricant and fuel improver solutions. As an employee owned company, we help our customers develop sustainable solutions designed to improve system reliability, save energy, limit pollution, extend fixed asset life, reduce maintenance costs and improve fuel efficiency. Our products and services leverage over 80 years of innovation resulting in superior lubrication solutions and high touch customer service.