



# **VALGAB MOTOR OIL F-UL**

## **SYNTHETIC BLEND 15W-40 MEETS API CK-4/SN, CJ-4**

**Valgab Synthetic Blend F-UL15W-40 CK-4/SN** is developed for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. These oils are formulated for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm (0.05% by weight). These oils are especially effective at sustaining emission control system durability where particulate filters and other advanced after-treatment systems are used. **Valgab Synthetic Blend F-UL15W-40 CK-4/SN** oils are designed to provide and exceed the performance criteria of API CJ-4, CI-4 PLUS, CI-4, and CH-4 and can effectively lubricate engines calling for those API Service Categories. When using **Valgab Synthetic Blend F-UL15W-40 CK-4/SN** oil with higher than 15 ppm sulfur fuel, consult the engine manufacturer for service interval recommendations.

**Valgab Synthetic Blend F-UL15W-40 CK-4/SN** provides:

- Enhanced protection against oil oxidation and viscosity loss due to shear.
- Enhanced protection against oil aeration and catalyst poisoning.
- Enhanced protection against particulate filter blocking, engine wear.
- Enhanced protection against piston deposits and degradation of low- and high-temperature properties.
- Advanced protection against soot-related viscosity increase.

**Valgab Synthetic Blend F-UL15W-40 CK-4/SN** may be recommended for the following quality levels:

- Mack EOS-4.5/Volvo VDS-4.5/Renault RLD-4
- Detroit 93K222
- Cummins 20086

**PLEASE NOTE: ALWAYS CONSULT YOUR OWNER'S MANUAL FOR YOUR PROPER FLUID EQUIPMENT.**



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DESCRIPTION			
SAE GRADE			15W-40
DENSITY 15°C	g/ml	ASTM D4052	0.8679
VISCOSITY 100°C	cSt	ASTM D445	15.5
VISCOSITY 40°C	cSt	ASTM D445	117.7
VISCOSITY -20°C	cP	ASTM D5293	5800
VISCOSITY INDEX	-	ASTM D2270	139
FLASH POINT OPEN CUP	°C	ASTM D92	220
POUR POINT	°C	ASTM D97	-35
TBN	Mg KOH/g	ASTM D2896	10
NOACK VOLATILITY, 1 Hr 250°C	% wt	ASTM D5800	10
HTHS VISCOSITY 150°C	cP	ASTM D4683	4.1

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