



QP ADVANCE

The ongoing environmental drivers and legislation for reduced emissions and increased fuel economy continues to force changes in engine hardware design around the world. These significant changes in heavy duty diesel engine technology and operating conditions have resulted in engine downsizing, down-speeding, higher oil temperatures, stop/start technology, and variable valve timing, to name a few.

QP ADVANCE is the latest OEM technology for the next generation of Heavy-Duty Diesel Oil providing fleets with immediate durability and efficiency benefits over oils meeting earlier specifications. This unique new formulation is compatible with diesel engines fitted with EGR and also the latest exhaust after treatment systems such as DPF, DOC and SCR.

QP ADVANCE also provides the potential for extended drain intervals up to 50,000 to 80,000km in conjunction with a carefully monitored oil analysis program at various intervals in accordance with their engine manufacturer regarding extended drain intervals.

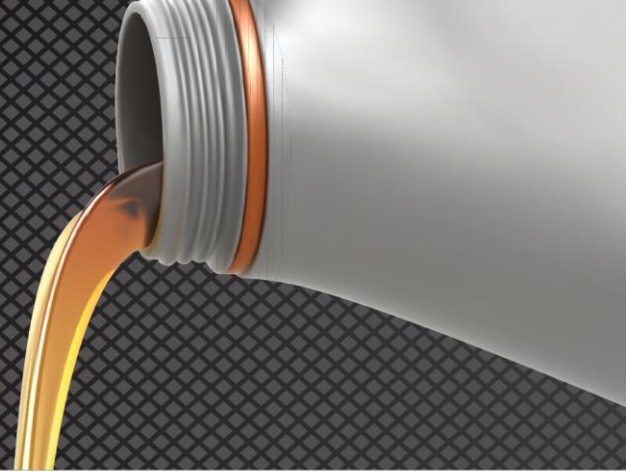
NOTE: Extended drain intervals vary dependent on engine type, fuel quality and operating conditions.

QP ADVANCE is API Licensed and backward compatible with previous API specifications CJ-4, CI-4 and CH-4 lubricants. QP ADVANCE is approved for Volvo 4.5, Mack EOS-4.5 and Renault RLD- 3 and is suitable in a wide range of OEM engines such as Cummins, Caterpillar and Mercedes meeting the latest US, European and Australian emissions requirements. For tips on maintaining your truck please visit BLOGS on our website.

Benefits associated with CK-4 technology include:

- API licensed
- OEM approved technology
- Minimizes engine emissions
- Increased oxidative stability
- Increased fuel efficiency
- Increased shear stability
- Increased resistance to aeration
- Guaranteed quality assurance to consumers vehicles





PRODUCT DATA SHEET

TYPICAL PROPERTIES

Density @ 15°C	0.883
Viscosity @ 40°C (cSt)	111.8
Viscosity @ 100°C (cSt)	14.4
Viscosity Index	132
Open Flash Point (°C)	225
Cold Crank Viscosity (cP @ -20°C)	6658
HTHS @ 150°C (cP)	>4.0
Sulphated Ash (%mass)	0.99
Phosphorus (%mass)	0.100
Zinc (%mass)	0.110
Calcium (%mass)	0.242
TBN	9.7

PERFORMANCE SPECIFICATIONS

SAE: Viscosity 15W-40

API: CK-4 License No. 3523

ACEA: E9

Volvo: VDS-4.5 Approved

MACK: EOS-4.5 Approved

Renault: RLD-3 Approved

Renault: RLD-4

Caterpillar: ECF-3

Cummins: CES 20086

Detroit Diesel: DFS 92K222

Deutz: DQC III -18 LA

Ford: WSS-M2C171-F1

JASO: DH-2

MAN: M 3575

MB- 228.31

MTU: Type 2.1

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