

WITH ADAPTIVE MOLECULAR TECHNOLOGY

# EMPROTEC

ADVANCED HEAVY DUTY LUBRICANTS

a range of **advanced**  
heavy duty  
engine oils



**AZTEC OILS**  
THE LUBRICATION SPECIALISTS



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ADVANCED HEAVY DUTY LUBRICANTS

Each **EMPROTEC** heavy-duty engine oil incorporates our specialist **Adaptive Molecular Technology** to enhance the power and efficiency of your vehicle, helping maintain peak reliability, performance and emission compliance in even the harshest of environments.

**EMPROTEC** lubricants are exhaustively tested to meet and exceed the requirements of the latest OEM specifications.

**Want to save money on your fuel bills?**  
Ask your local Aztec Oils distributor about using a fuel-efficient **EMPROTEC** lubricant.



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FULLY SYNTHETIC, LOW ASH GRADES		Recommended by Aztec Oils as suitable for the following applications:
HDD045	<b>EMPROTEC ULTRA 5W-30 LA</b>	ACEA E7/E8/E11; API SN/CK-4; JASO DH-2; Caterpillar ECF-3; Cummins CES 20086; DAF PSQL 2.1E-LD; Daimler Trucks DTFR 15C120 (MB 228.52), DTFR 15C110 (MB 228.51), DTFR 15C100 (MB 228.31); Detroit Diesel DDC 93K222; Deutz DQC IV-18 LA; Ford WSS-M2C213-A1; Mack EOS-4.5; MAN M3775; MTU Type 3.1; Renault Trucks RLD-3; Scania LDF-4; Volvo VDS-4.5* *Can be used where Volvo VDS-5 is required with the exception of potential fuel economy benefits.
HDD046	<b>EMPROTEC ULTRA 10W-40 LA</b>	ACEA E7/E8/E11; API CK-4; JASO DH-2; Caterpillar ECF-3; Cummins CES 20086; DAF PSQL 2.1E-LD; Daimler Trucks DTFR 15C120 (MB 228.52), DTFR 15C120 (MB 228.52), DTFR 15C100 (MB 228.31); Deutz DQC IV-18 LA; Mack EOS-4.5; MAN M3775; MTU Type 3.1; Renault Trucks RLD-3; Volvo VDS-4.5
FUEL-EFFICIENT, LOW ASH GRADES		
HDD047	<b>EMPROTEC VHPD 5W-30 FE (Fully Synthetic)</b>	API SN/FA-4; JASO DH-2; Cummins CES 20087; Daimler Trucks DTFR 15C130 (MB 228.61); Detroit Diesel DDC 93K223; Suitable for Ford WSS-M2C214-B1
HDD048	<b>EMPROTEC VHPD 10W-30 FE (Group II based)</b>	API SN/FA-4; JASO DH-2; Cummins CES 20087; Daimler Trucks DTFR 15C130 (MB 228.61); Detroit Diesel DDC 93K223
FULLY SYNTHETIC GRADES		
HDD012	<b>EMPROTEC XHPD 10W-40</b>	ACEA E4/E7; API CI-4; Cummins CES 20078, 20077; Deutz DQC IV-10; Mack EO-N; MAN M3275, M3277; Daimler Trucks DTFR 15B120 (MB 228.5); MTU Type 3.0; Renault Trucks RXD; Scania LDF-3; Volvo VDS-3
GROUP II BASED, MID ASH GRADES		
HDD049	<b>EMPROTEC UHPD-X 10W-30 FE</b>	ACEA E7/E11; API SP/CK-4, CJ-4; China D1; JASO DH-2; Allison TES 439; Caterpillar ECF-3; Cummins CES 20100, 20087, 20086; Daimler Trucks DTFR 15C100 (MB 228.31); Detroit DDC93K222; Deutz DQC III-18 LA; Ford WSS-M2C171-F1; Mack EOS-4.5; MAN M3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
HDD050	<b>EMPROTEC UHPD-X 10W-40</b>	ACEA E7/E11; API SP/CK-4, CJ-4; China D1; JASO DH-2; Allison TES 439; Caterpillar ECF-3; Cummins CES 20100, 20087, 20086; Daimler Trucks DTFR 15C100 (MB 228.31); Detroit DDC93K222; Deutz DQC III-18 LA; Mack EOS-4.5; MAN M3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
HDD051	<b>EMPROTEC UHPD-X 15W-40</b>	ACEA E7/E11; API SP/CK-4, CJ-4; China D1; JASO DH-2; Allison TES 439; Caterpillar ECF-3; Cummins CES 20100, 20087, 20086; Daimler Trucks DTFR 15C100 (MB 228.31); Detroit DDC93K222; Deutz DQC III-18 LA; Ford WSS-M2C171-F1; Mack EOS-4.5; MAN M3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
MINERAL & SEMI SYNTHETIC GRADES		
HDD027	<b>EMPROTEC SHPD 10W-30</b>	ACEA E7 (E5); API CI-4, CH-4; Caterpillar ECF-1, ECF-2; Cummins CES 20072, 20076, 20077, 20078; Daimler Trucks DTFR 15B110 (MB 228.3); Deutz DQC III-10; Global DHD-1; Mack EO-N; MAN M3275; MTU Type 2.0; Renault Trucks RLD-2; Volvo VDS-3
HDD016	<b>EMPROTEC SHPD 10W-40 SS</b>	ACEA E7 (E5); API CI-4, CH-4; Caterpillar ECF-1, ECF-2; Cummins CES 20072, 20076, 20077, 20078; Daimler Trucks DTFR 15B110 (MB 228.3); Detroit Diesel 93K215; Deutz DQC III-10; Global DHD-1; Mack EO-N; MAN M3275; MTU Type 2.0; Renault Trucks RLD-2; Volvo VDS-3
HDD043	<b>EMPROTEC SHPD-X 15W-40</b>	ACEA E7 (E5); API CI-4, CH-4; Caterpillar ECF-2, ECF-1; Cummins CES 20072, 20076, 20077, 20078; Daimler Trucks DTFR 15B110 (MB 228.3); Deutz DQC III-10; Global DHD-1; Mack EO-N; MAN M3275; MTU Type 2.0; Renault Trucks RLD-2; Volvo VDS-3; ZF TE-ML 07C
HDD022	<b>EMPROTEC SHPD 20W-50</b>	ACEA E7 (E5); API SL/CI-4; Daimler Trucks DTFR 15B110 (MB 228.3); MAN 271, M3275; Mercedes-Benz 228.1
HDD003	<b>EMPROTEC FLEET 15W-40</b>	ACEA E3; API CH-4; Caterpillar ECF-1; Cummins CES 20072; Deutz DQC II-10; Mack EO-L; MAN 271; Mercedes-Benz 228.1; MTU Type 1.0; Volvo VDS-2
MONOGRADE, MINERAL ENGINE OILS		
MON009	<b>EMPROTEC SDX 10W</b>	API SG/CF-4; Caterpillar TO-2; MAN 270; ZF TE-ML 03A, 05K, 21K
MON010	<b>EMPROTEC SDX 20W</b>	API SG/CF-4; Caterpillar TO-2; MAN 270; Daimler Trucks DTFR 15B100 (MB 228.2); ZF TE-ML 06A, 07D
MON011	<b>EMPROTEC SDX 30</b>	API SG/CF-4; Allison C3; Caterpillar TO-2; MAN 270; ZF TE-ML 02H, 03A, 04B, 07D, 07F
MON012	<b>EMPROTEC SDX 40</b>	API SG/CF-4; Caterpillar TO-2; MAN 270; ZF TE-ML 02H, 04B
MON013	<b>EMPROTEC SDX 50</b>	API SG/CF-4; Caterpillar TO-2; Daimler Trucks DTFR 15B100 (MB 228.2); ZF TE-ML 04E
MON005	<b>EMPROTEC HDX 10W</b>	API SE/CC
MON006	<b>EMPROTEC HDX 20W</b>	API SE/CC
MON007	<b>EMPROTEC HDX 30</b>	API SE/CC
MON008	<b>EMPROTEC HDX 40</b>	API SE/CC
MON032	<b>EMPROTEC HDX 50</b>	API SE/CC

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Coolant & Antifreeze

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**summer coolants & winter antifreeze**



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**EMPROTEC** VHPD 10W-30 FE & **EMPROTEC** VHPD 5W-30 FE are based on a **blend of high-quality base oils and cutting-edge additive technology**, providing the robust performance required by modern diesel engines while assuring excellent fuel economy benefits. Greatly improved oxidation resistance and soot control allows extended drain capabilities and better protects engine components as many new heavy duty diesel engines require FA-4 performance levels.

FA-4 oils are in most ways similar to CK-4 but the High Temperature High Shear (HTHS) viscosity is lower than the corresponding CK-4 engine oil. This lower HTHS viscosity results in improved fuel economy as the tolerances of modern diesel engines are much closer, **meaning a reduced chance of excessive engine wear** whilst exploiting fuel economy benefits.

However, FA-4 oils are not backwards compatible with older engines designed to use any previous heavy-duty specification (CK-4, CJ-4, CI-4 etc). **EMPROTEC** VHPD 10W-30 FE & **EMPROTEC** VHPD 5W-30 FE are specially formulated for use with ultra-low sulphur diesel and engines equipped with emission systems and AdBlue.



NEW GRADE	PREVIOUS GRADE
EMPROTEC ULTRA 5W-30 LA	EMPROTEC EURO 5W-30 LA EMPROTEC XHPD 5W-30 LA
EMPROTEC ULTRA 10W-40 LA	EMPROTEC EURO 10W-40 LA EMPROTEC VHPD 10W-40 LA
EMPROTEC UHPD-X 10W-30 FE	EMPROTEC UHPD 10W-30
EMPROTEC UHPD-X 10W-40	EMPROTEC UHPD 10W-40
EMPROTEC UHPD-X 15W-40	EMPROTEC UHPD 15W-40
EMPROTEC VHPD 5W-30 FE	NEW
EMPROTEC VHPD 10W-30 FE	NEW



## Aztec Oils on hand to support you



Aztec Oils are proud to offer premium levels of assistance to all our customers. We have a dedicated Technical Support team on hand to offer guidance on the correct use of our products.

Our expert team in our on-site laboratory continually test the quality and compliance of all our lubricants so our customers know that Aztec Oils is a brand they can trust.

Email: [Technical@aztecoils.co.uk](mailto:Technical@aztecoils.co.uk)



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