

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.



AZTEC OILS
THE LUBRICATION SPECIALISTS



FULLY SYNTHETIC, LOW ASH GRADES		PERFORMANCE LEVELS
HDD045	EMPROTEC ULTRA 5W-30 LA	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 M 3677, M 3775; 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	EMPROTEC ULTRA 10W-40 LA	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 15C110 (MB 228.51), DTFR 15C100 (MB 228.31); Deutz DQC IV-18 LA; Mack EOS-4.5; MAN M 3775; MTU Type 3.1; Renault Trucks RLD-3; Volvo VDS-4.5
FUEL-EFFICIENT, LOW ASH GRADES		
HDD047	EMPROTEC VHPD 5W-30 FE <i>(Fully Synthetic)</i>	API SN/FA-4; JASO DH-2; Cummins CES 20087; Daimler Trucks DTFR 15C130 (MB 228.61); Detroit Diesel DDC 93K223; Renault Trucks RLD-5; Volvo VDS-5; Suitable for Ford WSS-M2C214-B1
HDD048	EMPROTEC VHPD 10W-30 FE <i>(Group II based)</i>	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	EMPROTEC XHPD 10W-40	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	EMPROTEC UHPD-X 10W-30 FE	ACEA E7/E11; API SP/CK-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	EMPROTEC UHPD-X 10W-40	ACEA E7/E11; API SP/CK-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 M 3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
HDD051	EMPROTEC UHPD-X 15W-40	ACEA E7/E11; API SP/CK-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 M 3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5;
HDD053	EMPROTEC EHPD 10W-30	ACEA E7/E11; API SN/CK-4; JASO DH-2; Caterpillar ECF-3; Cummins CES 20086, 20081; DAF E9; Daimler Trucks DTFR 15C100 (MB 228.31); Detroit DFS 93K222; Deutz DQC III-18 LA; IVECO TLS E9; Mack EO-O Premium Plus; MAN M 3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
HDD054	EMPROTEC EHPD 10W-40	ACEA E7/E11; API SN/CK-4; JASO DH-2; Caterpillar ECF-3; Cummins CES 20086, 20081; DAF E9; Daimler Trucks DTFR 15C100 (MB 228.31); Detroit DFS 93K222; Deutz DQC III-18 LA; IVECO TLS E9; Mack EO-O Premium Plus; MAN M 3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
HDD052	EMPROTEC EHPD 15W-40	ACEA E7/E11; API SN/CK-4; JASO DH-2; Caterpillar ECF-3; Cummins CES 20086, 20081; DAF E9; Daimler Trucks DTFR 15C100 (MB 228.31); Detroit DFS 93K222; Deutz DQC III-18 LA; IVECO TLS E9; Mack EO-O Premium Plus; MAN M 3775; MTU Type 2.1; Renault Trucks RLD-3; Volvo VDS-4.5
MINERAL & SEMI SYNTHETIC GRADES		
HDD027	EMPROTEC SHPD 10W-30	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	EMPROTEC SHPD 10W-40 SS	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	EMPROTEC SHPD-X 15W-40	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	EMPROTEC SHPD 20W-50	ACEA E7 (E5); API SL/CI-4; Daimler Trucks DTFR 15B110 (MB 228.3); MAN 271, M3275; Mercedes-Benz 228.1
HDD003	EMPROTEC FLEET 15W-40	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	EMPROTEC SDX 10W	API SG/CF-4; Caterpillar TO-2; MAN 270; ZF TE-ML 03A, 05K, 21K
MON010	EMPROTEC SDX 20W	API SG/CF-4; Caterpillar TO-2; MAN 270; Daimler Trucks DTFR 15B100 (MB 228.2); ZF TE-ML 06A, 07D
MON011	EMPROTEC SDX 30	API SG/CF-4; Allison C3; Caterpillar TO-2; MAN 270; ZF TE-ML 02H, 03A, 04B, 07D, 07F
MON012	EMPROTEC SDX 40	API SG/CF-4; Caterpillar TO-2; MAN 270; ZF TE-ML 02H, 04B
MON013	EMPROTEC SDX 50	API SG/CF-4; Caterpillar TO-2; Daimler Trucks DTFR 15B100 (MB 228.2); ZF TE-ML 04E
MON005	EMPROTEC HDX 10W	API SE/CC
MON006	EMPROTEC HDX 20W	API SE/CC
MON007	EMPROTEC HDX 30	API SE/CC
MON008	EMPROTEC HDX 40	API SE/CC
MON032	EMPROTEC HDX 50	API SE/CC

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 control systems, including those utilising 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 EHPD 10W-30	EMPROTEC UHPD 10W-30
EMPROTEC EHPD 10W-40	EMPROTEC UHPD 10W-40
EMPROTEC EHPD 15W-40	EMPROTEC UHPD 15W-40
EMPROTEC VHPD 5W-30 FE	NEW
EMPROTEC VHPD 10W-30 FE	NEW



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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.

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