

Heavy Duty Diesel Engine Oils

Extreme-Duty Synthetic-Blend 15W40 - Extreme-Duty 10, 30, 40

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Wolf's Head Extreme Duty Synthetic-Blend 15W40 & 10W-30 Motor Oils are new high performance diesel engine oils developed to offer the ultimate in diesel engine oil protection for your new and expensive equipment by offering a better and stronger armor against wear, improved performance and greater fuel economy. These oils are especially equipped to protect EGR/Low-Emission Diesel Engines while maximizing the durability of Diesel Particulate Filters (DPF's). New additive systems and rigorous laboratory and field testing have proven that these new oils are up to the task of protecting your engine; helping your engine operate within the new emission and pollution requirements as well as meeting or exceeding the OEM requirements for every new engine being built by every engine manufacturer worldwide, including but not limited to: Caterpillar, Cummins, DaimlerChrysler (Mercedes Benz), Detroit Diesel, Volvo, Mack (*including the new and more stringent Mack EO-O Premium Plus 2007*), MAN, and Navistar. These new high performance oils are specifically engineered to meet the manufacturers' prerequisite for performance, TBN, and balanced low ash (1% maximum) requirements. They will deliver superior long lasting protection for both turbocharged and naturally aspirated diesel and gasoline engines whether in highway or off-highway equipment. They are formulated for extended service/extended drain when operated under typical operating conditions and are engineered to help promote fuel economy. These new oils meet or exceed the new API CJ-4/SN Service Classification and meet prior API specifications for CI-4 Plus, CI-4, CH-4, CG-4, CF-4, CF-2, CF and API SL, SJ, and SH. These oils are registered Mack EO-O Premium Plus '07, and meet prior specifications for EO-N Premium Plus, EO-M Plus, and EO-M. These oils is also registered to Detroit Diesel 93K218, 93K215, and 93K214; Cummins CES 20081, 20078, 20077, 20076. These oils meets Allison C4 and C3 fluids and Caterpillar ECF-3, ECF-2, ECF-1, TO-2. These oils are also registered for the following European and Asian approval standards: Volvo VDS-4, VDS-3, VDS-2 and meets specifications for Global DHD-1; JASO DH-2 and DH-1. These oils are engineered to be robust enough to meet MB 228.5, 228.3, 228.1, 227.1; Man 3275; MTU Type I & II; ACEA E7-04, E4, E2, A3/B4, A3B3; and Renault RLD-3. These highly advanced diesel engine oils are recommended for use in MIL L 2104-G, MIL L 46152-E, and CID A-A-52306 applications.

Wolfs Head Extreme-Duty Engine Oils have been improved and upgraded to be among the best and most efficient diesel engine oils available to the fleet market. New additive systems and rigorous laboratory and field testing have proven that these new Wolfs Head Extreme-Duty Engine Oils are up to the task of protecting your engine; helping your engine operate within the new emission and pollution requirements as well as meeting or exceeding the OEM requirements for almost every new engine being built by every engine manufacturer worldwide. The new high performance Wolfs Head Extreme-Duty Engine Oils are specifically engineered to meet the manufacturers' prerequisite for performance, TBN, and balanced low ash requirements. They will deliver superior long lasting protection for both turbocharged and naturally aspirated diesel and gasoline engines. They are formulated for extended service/extended drain when operated under typical operating conditions and are engineered to help promote fuel economy. These oils are recommended where API CF-2, CF/SL oils are specified.

TYPICAL INSPECTION DATA

	API Gravity	Flash Point C.	Viscosity cSt @100C	Viscosity cSt @40C	VI	Pour Point, C.	TBN (D-2896)
Extreme-Duty Synthetic Blend							
15W-40 *	29.6	215	15.80	115.0	145	-35	10
10W-30 *	30.0	210	11.00	75.00	135	-35	10
Extreme-Duty							
10	29.5	190	6.60	37.0	140	-33	10
30	28.5	220	11.20	88.0	116	-21	10
40	28.0	230	14.50	133.0	109	-18	10

* Also meets 1% maximum ash requirements

PERFORMANCE APPLICATION CHART

SPECIFICATIONS		Extreme Duty Synthetic Blend 15W-40, 10W-30	Extreme Duty 10, 30, 40
API:	CJ-4/SN	√	-
	CI-4 Plus	√	-
	CI-4, CH-4, CG-4	√	-
	CF-4	√	-
	CF-2 [1] CF/CD	√	√
	SL/SJ/SH [2]	√	√
Allison	C-4, C-3	√	√
	Mil-PRF-2104G(AA52306)	√	√
	Mil-L-2104-B, Mil-L-46152	√	√
Caterpillar	TO-2	√	√
	ECF-3	√	-
	ECF-2	√	-
	ECF-1, SEBU 6250	√	-
Mack	EO-O Premium Plus 07	√	-
	EO-N Premium Plus 03	√	-
	EO-N Premium Plus	√	-
	EO-M, EO-M Plus	√	-
Cummins	CES 20081	√	-
	CES 20078, 76, 71	√	-
	CES 20077, 72	√	-
JASO	DH-2	√	-
	DH-1	√	-
Global	DHD-1	√	-
Navistar	TSI-99-12	√	SAE 30
Detroit Diesel	93K218, 93K215	√	-
	93K214	√	-
	7SE270 [3]	√	√
Daimler Chrysler	228.5	√	-
	DC(MB) 228.3, 228.2	√	-
	DC(MB) 228.1, 228.0	-	√
ACEA	A5/B5, A3/B4, A3/B3, A1/B1	√	A2, B2
	E7, 6, 5, 4, 3, 2, 1	√	E1, 2
Volvo	VDS-4	√	-
	VDS-3	√	-
	VDS-2	√	-
Renault	RDL-3	√	-
Man	3275/3277	√	-
	270/271	√	-
MTU	Type II, Type III	√	-
	Type I	√	√

NOTES:

[1]= CF-2 primary recommendation for two-cycle engines; single grades.

[2]= Above Preferred Phosphorus level of API SL/SJ (10W-30).

[3]= Multigrade oils recommended for four-cycle engines, single grade oils for two-cycle engines