AWARD LUBRICANTS

AWARD Heavy Duty Engine Oil

HEAVY DUTY ENGINE OILS

PRODUCT LINE

AWARD Heavy Duty Engine Oils are part of AWARD's family of premium quality engine oils designed to provide world class performance in today's diesel truck engine fleets, as well as some modern gasoline engines. Formulated with precisely defined additive components in premium lubricating base oils, these oils provide exceptional performance in terms of soot control, engine cleanliness, and in extended oil drain Programs.

APPLICATIONS

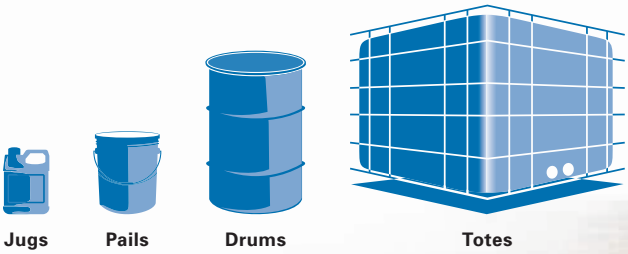
AWARD Heavy Duty Engine Oils provide excellent performance in new low-emission diesel truck engines as well as in older models including many off-highway engines such as Caterpillar, Komatsu, Kubota, John Deere, Case-New Holland, Massey Ferguson, and Volvo. AWARD Heavy Duty Engine Oils meet the latest API and engine builder's specifications for North American, European, and Asian engine manufacturers. These oils will provide outstanding performance in turbo and non-turbo charged engines, as well as in engines equipped with EGR emission control hardware. Performance in non-EGR engines and engines specifying API CK-4 engine oils is equally as impressive.

Always consult your owner's manual when selecting the appropriate viscosity grade for your engine.

PERFORMANCE BENEFITS

- Formulated and approved for use in a wide variety of diesel and gasoline engines to simplify oil inventories yet maintain complete warranty coverage of engines.
- Extended oil drain capability due to a high TBN and great viscosity retention supports extended drain service intervals when used in conjunction with regular oil sampling.
- Excellent dispersant provides outstanding soot control in EGR and non-EGR diesel engines.
- Superior deposit control and wear protection confirmed in field tests in major truck diesel engines.
- Balanced formulations deliver corrosion protection required by major engine manufacturers.

Available In These Sizes



Jugs Pails Drums Totes

1.800.926.FUEL (3835) • AFDPetroleum.com

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AFD QUALITY FUELS & LUBRICANTS

AWARD LUBRICANTS

TYPICAL PROPERTIES

SAE GRADE	10W-30	15W-40	ASTM TEST METHOD
Viscosity MRV TP-1 @ -30°C/-25°C, cP	22000	17840	D4684
Viscosity CCS @ -25°C/-20°C, cP	6200	4635	D5293
Viscosity @ 40°C, cSt	83.8	113	D445
Viscosity @ 100°C, cSt	12.2	15.3	D445
Viscosity HT/HS @ 150°C, cP	3.5	4.0	D4683
Viscosity Index	140	141	D2270
Flash Point, °C (°F) COC	221 (430)	221 (430)	D92
Pour Point, °C (°F)	-36 (33)	-31 (-24)	D97
Color	Amber	Amber	
Relative Density @ 60°F	0.870	0.871	D1298
Sulfated Ash, %	1.0	1.0	D874
Base Number	10.0	10.0	D2896

PERFORMANCE SUMMARY

SPECIFICATIONS AND APPROVALS
API Service Classification: CK-4, CJ-4, CI-4, CI-4 Plus, CH-4
ACEA E7, E9-2012
Caterpillar ECF-3, ECF-2
Cummins CES 20086, CES 20081
Daimler MB 228.31
Detroit Diesel DFS 93K222, DFS 93K218
Ford WSS M2C171-F1
Mack EOS-4.5, EO-O Premium Plus, EO-N
MAN M3575
MTU category 2.1
Renault RLD-4.5, RLD-3
Volvo VDS-4.5, VDS-4, VDS-3

Health & Safety
This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

SDS
Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed.

MSDS can be found at: *https://www.afdpetroleum.com/safety*

**Always consult with original equipment manufacturer's recommendations for specific performance and viscosity requirements.*

**Extending drain intervals should always be undertaken in conjunction with a regular oil analysis program.*

**Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations.*

Product formulations are subject to change without notice.

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