



Premium
**SAE 15W-40 &
SAE 10W-30
HEAVY DUTY
ENGINE OIL
DIESEL/GASOLINE ENGINES**



MFA Oil Premium Heavy Duty 15W-40 & 10W-30 engine oils are formulated with Group II base oils and highly advanced additive systems. These fluids are some of the most rigorously and extensively tested fluids we have ever developed. Our additive system will be supported by over 100 Million miles of field testing in various applications and conditions, including: Long and Short Haul Fleets, Off Road Equipment, Commercial and Public Buses.

Modern diesel engine oils must meet the demands of higher engine power as well as increased emission controls including: Exhaust Gas Recirculation (EGR), Diesel Particulate Filters (DPF), and Selective Catalytic Reduction (SCR). This Premium Heavy Duty engine oil formulation meets all service categories for ALL diesel engines, including the capability to provide outstanding performance for older diesel engines, reducing the need to inventory multiple engine oils.

- Protects all diesel engines with emission controls, and is backwards compatible for older engines
- Excellent piston cleanliness and sludge control performance
- Neutralized and dispersed combustion by-products to prevent harmful deposits and corrosive wear
- Increased pumpability in cold temperatures provides superior wear protection during cold starts
- Improved oxidation performance by 60% when compared to API CJ-4 technology
- High film strength stands up to high temperature, high load conditions
- 10W-30 CK-4 provides same outstanding protection but has shown increased fuel economy when compared to 15W-40
- Proven ability to provide Extended Drain intervals

Always consult and follow manufacturer's guide for proper SAE grade. Never exceed recommended drain interval without close monitoring through oil analysis.



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Typical Characteristics

PRODUCT	15W-40	10W-30
Gravity, °API	29.85	31.48
Specific Gravity @ 60°F (15.6°C)	0.8770	0.8682
Viscosity @ 40°C cSt	118.8	76.95
Viscosity @ 100°C cSt	15.61	11.93
Viscosity Index	138	150
Pour Point °C (°F)	-30°C (-22°F)	-33°C (-27°F)
Cold Cranking Simulator at (°C), cP	6087 (-20)	5369 (-25)
High Temperature / High Shear Vis at 150°C, cP	4.2	3.5
Noack Volatility, % loss	11	14.6
Color	2.5	2.5
Zinc, wt. %	0.1287	0.1287
Phosphorus, wt. %	0.115	0.115
Calcium, wt. %	0.12	0.12
Sulfur, wt. %	0.308	0.308
Magnesium, wt. %	0.083	0.083
Molybdenum, wt. %	0.0045	0.0045
Sulfated Ash, wt. %	0.99	0.99
Nitrogen, wt. %	0.11	0.11
Pumping Viscosity at (°C), cP	23700 (-25)	24,900 (-30)
TBN, mgKOH/g	10.0	10.0

Performance Level

API, CK-4 (10W-30), CK-4/SN (15W-40) CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF-2, CF, CE, CD, SL, SJ, SH, SG
 ACEA E9, E7-04, E4, E2
 AGCO TRACTORS
 ALLISON C-4
 ALLIS-CHALMERS
 CATERPILLAR ECF-3, ECF-1
 CUMMINS CES 20086, 20081, 20077, 20076
 DETROIT DIESEL 938K222, 93K218, 93K215, 93K214
 DEUTZ-ALLIS
 FENDT
 FIAT
 FORD WSS-M2C171-F1
 FORD TRACTORS
 GLOBAL DHD-1
 HURLIMANN
 INTERNATIONAL HARVESTER
 JASO DH-2
 J.I. CASE & CASE IH
 JOHN DEERE
 KOMATSU
 KUBOTA
 LEYLAND
 MACK EOS-4.5, EO-0 PREMIUM PLUS '07,
 MACK EO-N PREMIUM PLUS '03, EO-M PLUS, EO-M
 MAN 3575, 3275
 MASSEY FERGUSON
 MERCEDES BENZ 228.3
 MIL-L-2104E
 MINNEAPOLIS MOLINE
 MTU 2.1, TYPE I, TYPE II
 NAVISTAR
 NEW HOLLAND
 OLIVER & WHITE
 RENAULT RLD-4, RLD-3
 VOLVO VDS-4.5, VDS-4, VDS-3, VDS-2
 YANMAR
 ZETOR

Available In:

Qt, 2.5 Gal, 30 Gal, 55 Gal Drum,
 330 Gal Tote, Bulk





Premium HEAVY DUTY ENGINE OIL DIESEL/GASOLINE ENGINES



MFA Oil Premium Heavy Duty engine oil is formulated using only high quality Group II, severely hydrocracked, high viscosity index, paraffinic base stocks. It is designed to provide superior engine protection for today's sophisticated, state-of-the-art, low emission diesel and gasoline engines. This product protects against soot-induced oil thickening, ring wear, ringland deposits, oxidation and oil consumption and it has excellent stay in grade performance as well as extended drain interval capabilities.

It is primarily intended for both turbocharged and naturally-aspirated diesel engines used in the heavy-duty trucking, mining, construction and farming industries. It may be used in power shift transmissions in which manufacturers recommend a Series 3 super heavy duty (SHD) engine oil.

- Outstanding control of soot-induced oil thickening
- Low ash
- Excellent TBN retention
- Excellent shear stability
- Outstanding piston cleanliness performance
- Outstanding ring wear performance
- Outstanding oxidation and oil consumption control
- Extended drain capabilities

Always consult and follow manufacturer's guide for proper SAE grade. Never exceed recommended drain interval without close monitoring through oil analysis.



Premium HEAVY DUTY ENGINE OIL DIESEL/GASOLINE ENGINES



Typical Characteristics

PRODUCT	10W-10	20W-20	30	40	50
Gravity, °API	31.42	30.62	29.77	29.61	27.78
Specific Gravity @ 60°F (15.6°C)	0.8685	0.8728	0.8774	0.8783	0.8884
Viscosity @ 40°C cSt	42.83	64.05	91.05	124.5	202.9
Viscosity @ 100°C cSt	6.794	8.715	10.91	13.29	18.77
Viscosity Index	114	109	105	101	103
Pour Point °C (°F)	-36°C (-33°F)	-30°C (-22°F)	-30°C (-22°F)	-27°C (-17°F)	-
Color	2.5	2.5	2.5	2	4
Zinc, wt. %	0.086	0.086	0.086	0.086	0.086
Phosphorus, wt. %	0.078	0.078	0.078	0.078	0.078
Calcium, wt. %	0.161	0.161	0.161	0.161	0.161
Sulfur, wt. %	0.185	0.185	0.185	0.185	0.185
Sulfated Ash, wt. %	.625	.625	.625	.625	.625
Molybdenum	.002	.002	.002	.002	.002
Nitrogen, wt. %	0.033	0.033	0.033	0.033	0.033

Available Sizes

10W-10	20W-20	30	40	50
2.5 Gal	2.5 Gal	Quart	2.5 Gal	2.5 Gal
55 Gal Drum	55 Gal Drum	2.5 Gal	55 Gal Drum	55 Gal Drum
Bulk	Bulk	30 Gal Drum	Bulk	Bulk
		55 Gal Drum		
		Bulk		

Performance Level

- API SAE 10W-10 CF/SG
- SAE 20W-20 CF/SG
- SAE 30 CF-2, CF/SG
- SAE 40 CF-2, CF/SG
- SAE 50 CF-2, CF/SG
- ALLISON C-4 QUALITY
- SAE 10W-10 & SAE 30
- CATERPILLAR TO-2
- SAE 10W-10 SAE 30
- DETROIT DIESEL
- FORD TRACTOR
- JOHN DEERE
- KUBOTA
- INTERNATIONAL HARVESTER
- MASSEY FERGUSON
- MINNEAPOLIS MOLINE
- NAVISTAR
- OLIVER & WHITE

Available In:

Qt, 2.5 Gal, 30 Gal, 55 Gal Drum, Bulk

