

EXTRA/HEAVY-DUTY MOTOR OILS
SAE 10W, 20W-20, 30, 40, 50
 [ASTM D-2896, TBN 10]

SAE Grade	<u>Typical Properties</u>				
	10W	20W-20	30	40	50
Automotive					
Viscosity, cSt					
At 40° C	42	72	114	155	233
At 100° C	6.5	8.8	11.8	15.1	18.7
Viscosity, SUS					
At 100° F	193	331	524	713	1071
At 210° F	47	55	65	78	92
Viscosity Index	+90	+90	+90	+90	+90
Flash Pt.,(COC) °F	+400	+420	+435	+450	+465
Pour Point, °F	-25	-20	-5	0	+5
Sulfated Ash, %wt	1.4	1.4	1.4	1.4	1.4
Neut. No., TBN-E (min)	10	10	10	10	10
Gravity, API @ 60F	27.9	27.2	26.5	25.5	24.9

The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.

These EXTRA/HDMO (Heavy Duty Motor Oil) SAE Single-Grade crankcase oils are formulated for all diesel, gasoline, LPG, and LNG engines where the engine manufacturer stipulates or allows high ash single SAE grade motor oils. They are blended from selected and highly refined base stocks and compounded with detergents, dispersants, wear control elements, anti-oxidants, corrosion inhibitors, and a foam suppressant additive. These oils are especially useful in commercial mixed fleets (trucks and construction vehicles) consisting of diesel and gasoline fueled engines.

APPLICATIONS

Recommended for all major automotive diesel and four-cycle gasoline engines in severe service and under all operating conditions where the equipment owner specifies the additional performance benefits of heavy duty motor oils with higher detergency.

[Do not use in EMD Diesel Engines (railroad, marine) which require oil with <10 ppm zinc content].