



# LOW ASH ENGINE OILS

*Sinclair Low Ash Engine Oil multi-viscosity SAE 5W-30 and straight grades SAE 30 and SAE 40 are premium quality multi-viscosity, bright stock-free, ashless, natural gas engine oils formulated with selected paraffinic base oils and an additive package containing a dispersant, wear inhibitor and oxidation inhibitor for use in high speed, high output, turbocharged two-stroke and selected four-stroke gas engines operating at full capacity. The minimal ash content helps protect combustion chamber and spark plug from deposit formations that can result in pre-ignition detonation and loss of engine power.*



## APPLICATIONS

Suitable for engines manufactured by:

- Ajax
- Arrow
- Clark-Dresser
- Cooper Bessemer (two stroke)
- Worthington (two stroke)
- Caterpillar G300 NA
- Waukesha VR and Intermediate/Clinton series (fourstroke)
- Fairbanks-Morse/MEP (two stroke)

## PERFORMANCE

- Provides fast starting and quick oil pumpability
- Maintains viscosity over a wide range of temperatures
- Provides long overhaul intervals and filter life in ashless oil applications
- Helps prevent valve burning or guttering by maintaining clean valve faces
- Reduces deposits in hot sections of the engine to prevent ring sticking and loss of power
- Maximizes the lubricant service life by controlling viscosity increase with an effective ashless oxidation inhibitor
- Maintains precision and surface finish of work pieces
- Offers excellent wear protection
- Protects against engine corrosion



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## TYPICAL PHYSICAL PROPERTIES

Viscosity Grade	METHOD	TYPICAL RESULTS		
		5W-30	SAE 30	SAE 40
Gravity, °API	ASTM D287	32.92	30.03	29.75
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8606	0.876	0.8775
Viscosity @ 40°C cSt	ASTM D445	58.48	85.28	125.3
Viscosity @ 100°C cSt	ASTM D445	10.15	10.29	13.32
Viscosity Index	ASTM D2270	162	102	101
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)	-33°C (-27°F)	-27°C (-17°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	6296 (-30)	N/A	N/A
High Temperature/High Shear Vis at 100°C, cP	ASTM D6616	6.96	N/A	N/A
High Temperature/High Shear Vis at 150°C, cP	ASTM D4683	3.21	N/A	N/A
Noack Volatility, % loss	ASTM D5800	13.7	N/A	N/A
Color	ASTM D1500	2.5	1	1
Zinc, wt. %	ASTM D5185	0.085	0.038	0.038
Phosphorus, wt. %	ASTM D5185	0.079	0.07	0.07
Calcium, wt. %	ASTM D5185	0.169	N/A	N/A
Sulfur, wt. %	ASTM D4951	0.291	0.011	N/A
Boron, wt. %	ASTM D5185	0.023	N/A	N/A
Molybdenum, wt. %	ASTM D5185	0.0079	N/A	N/A
Sulfated Ash, wt. %	ASTM D874	0.92	<0.1	<0.1
Nitrogen, wt. %	ASTM D4629	0.102	N/A	N/A
Pumping Viscosity at (°C), cP	ASTM D4684	26,642 (-35)	N/A	N/A
Flash Point °C	ASTM D92	N/A	208	210
Flash Point °F	ASTM D92	N/A	406	410

