Heavy Duty Low-Ash Gas Engine Oil SAE 15W40

- Superior Lubrication for Natural Gas Fueled Engines
- Now with Syntheon™

SWEPCO 304 Heavy Duty Low-Ash Gas Engine Oil is a premium quality, low ash, extended service engine oil especially formulated to provide superior performance in natural gas fueled engines. It is carefully balanced to exceed high-performance and nonselective catalytic converter requirements.

Changes in the natural gas engine industry have placed greater demands on engine oils and shifted the emphasis from ashless to ash-containing oils. These changes include stricter emission regulations, a growing number of 4-cycle engines and new engine designs. SWEPCO 304 meets the challenge by offering unparalleled nitration and oxidation resistance, better piston deposit control and excellent scuff resistance for maximum engine and oil life.

SWEPCO 304 is carefully formulated from the very finest base stocks available and the most advanced additive chemistry.

SWEPCO 304 resists oxidation, nitration and port plugging deposits, making it especially well suited for all gas engine applications where the engine manufacturer recommends the use of low-ash gas engine oils.

SWEPCO 304 saves you money through overall reduced lubrication cost, including fuel conservation,



SWEPCO 304 is especially formulated to meet the unique requirements of natural gas fueled engines.

reduction of waste, reduced maintenance costs and extension of equipment and oil life.

SWEPCO 304 at work

- Meets Dresser-Rand Category III
- Specifically designed for Cater pillar, Waukesha and other highoutput, highly-turbocharged natural gas engines
- Digester Applications
- Cogeneration Plants
- Landfill Applications
- Stationary Applications
- Agriculture
- Compressors
- 2-Cycle/4-Cycle Engines
- <300 ppm Phosphorous meets most catalyst manufacturers' requirements

Feature	Benefit	
Syntheon™ Blend	 Gives a more uniform viscosity over a wide temperature range Helps improve high temperature oxidation and thermal stability Better low temperature flow characteristics help reduce start-up wear Extends service life 	
Oxidation Inhibitor	 Reduces oil thickening and formation of acids to extend oil service life Helps prevent sludge, varnish and carbon deposits that result from oxidation/ nitration Keeps engines cleaner and extends overhaul periods 	
Rust and Corrosion Inhibitor	 Builds a chemical bond with the surface to keep moisture and acids from penetrating and attacking the surfaces Unsurpassed protection from sulfuric acids and corrosion created by digester fuels containing hydrogen sulfide (H²S) 	
Anti-Foam Additive	Maintains a continuous oil film to prevent wear and assist in cooling	
Oiliness Additive	Enables the oil to penetrate the surface for better lubrication	
Anti-Wear Inhibitor	 Helps prevent friction and wear Protects against valve train wear & scuffing of cylinder bore and piston rings Extends overhaul periods and reduces maintenance cost 	
Detergent Additive	 Helps keep engine parts clean and neutralizes acids formed during combustion Minimizes port blocking in 2-cycle engines Minimizes ring zone deposits, helping to reduce ring and liner wear 	
Dispersant Additive	 Helps keep solid contaminants in the oil in colloidal suspension, preventing sludge and varnish deposits on engine parts 	
Pour Point Depressant Additive	Gives the oil better low temperature flow characteristics Helps to reduce low temperature start-up wear	
Viscosity Index Improver Additive	Less high temperature thinning and low temperature thickening	
Long Life	 Works harder for a longer period of time thus easing the cost and worries about waste oil disposal 	
Multi-Purpose Formulation	Exceeds requirements of all types and models of stationary natural gas engines Reduces inventory and lubrication errors to save you money	
Lab <i>Tec</i> SM Fluid Analysis Program	 Can maximize the life of the equipment and the life of the lubricant, while pinpointing impending problems "Fingerprints" oxidation and nitration levels Reduces waste 	
The Bottom Line	 Extends the life of your expensive equipment Reduces waste disposal Increases the service life of the oil Reduces labor cost through decreased and simplified maintenance Reduces costly scheduled and unscheduled downtime Multi-purpose formulation that reduces inventory and lubrication errors 	

Typical Physical Properties

SAE Grade Density, @ 60°, lbs/gal	
Density, @ 60°, kg/l	
Viscosity, cSt @ 40°C	96.43
Viscosity, cSt @ 100°C	14.87
Viscosity Index	161
Flash Point, °F (°C)	480 (248)
Pour Point, °F (°C)	36 (-38)
Color	. Dark Amber
Brookfield @ -20°C CPS	1500

Typical Chemical Properties

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Calcium. wt %	0.12
	0.03
Phosphorous, wt %	0.03
Nitrogen, wt %	
Sulfated Ash, wt %	0.51
Total Base No	4.5

Applicable Specifications

- Waukesha Cogeneration Requirements
- Dresser Rand Category III Low-Ash and Low-Phosphorous Requirements G7-17 Natural Gas Laboratory Engine Tests

- CRC L-38 Corrosion Test
 Caterpillar 1G-2 and IM-PC Piston Deposit Control
 NSCR type exhaust catalysts requirements

Specifically Recommended For

- Superior Caterpillar Waukesha Jenbacher Dresser-Rand Man Deutz MWM Rolls Royce GE



A Product of SPX Technology™.

the cutting edge performance SWEPCO Customers have come to expect.

















Southwestern Petroleum Corporation