



CATCO GAS ENGINE OILS

(Low-Ash Gas Engine Oil)

CATCO GAS ENGINE OILS are premium low ash natural gas engine oils designed specially for service in 2-cycle and 4-cycle LPG and natural gas engines. They are formulated from specially selected base oils and a field-tested low ash additive package to provide maximum stability and outstanding performance. **CATCO GAS ENGINE OILS** are low in phosphorous, and compatible with catalytic converters.

Stationary natural gas and LPG engines typically operate at low to medium speeds for extended period of time, which places a great deal of stress on the lubricants' ability to prevent formation of harmful deposit. **CATCO GAS ENGINE OILS** contain a highly effective detergent/dispersant system that minimizes sludge and varnish, and keeps engine parts clean. The result is optimum engine service life and performance, lower oil consumption, less maintenance and lower operating cost.

Another important feature of **CATCO GAS ENGINE OILS** is their heavy-duty anti-wear additive system. It provides added wear protection, resulting in substantially improved engine reliability. The addition of this anti-wear additive system offers a distinct advantage over many ashless gas engine oils.

CATCO GAS ENGINE OILS contain corrosion inhibitors to protect metal parts from rust and corrosion. They also contain potent anti-oxidants to inhibit oil oxidation and nitration, giving **CATCO GAS ENGINE OILS** the ability to "go the distance", extend oil service life and reduce maintenance cost.

Another advantage of **CATCO GAS ENGINE OILS** is their use of high VI, solvent extracted base oils. Natural gas engines are prone to ring sticking, spark plug fouling, pre-ignition and detonation if deposits develop in the combustion chamber. The base oil blends used

in **CATCO GAS ENGINE OILS**, coupled with the low ash additive package, minimize such deposits, improving overall operation.

BENEFITS:

- LOW ASH FORMULA PROVIDES EXCELLENT PROTECTION AGAINST WEAR, SLUDGE, VARNISH AND ASH DEPOSITS
- MINIMIZES RING STICKING, SPARK PLUG FOULING, PRE-IGNITION AND DETONATION
- COMPATIBLE WITH CATALYTIC CONVERTERS
- LOWERS OIL CONSUMPTION
- LOWERS MAINTENANCE COST

APPLICATIONS:

CATCO GAS ENGINE OILS are recommended for both 2-cycle and 4-cycle natural gas and LPG fueled engines that require low-ash oil. They are also suitable as cylinder lubricants for gas compressors. The enhanced **CATCO PLUS GAS ENGINE OILS** are intended for 4-cycle engines operating in especially severe conditions.

CATCO GAS ENGINE OILS satisfy the performance requirements of most major engine manufacturers including Caterpillar, Copper Bessemer 4-cycle engines, Dresser-Rand Class I, II and III, Enterprise, Fairbanks-Morse, Hercules, Superior, Waukesha (except VGF series), Worthington 4-cycle engines and others.

Note: **CATCO GAS ENGINE OILS** or **CATCO PLUS GAS ENGINE OILS** are not intended for use in automotive engines that have been converted to LPG or natural gas service.



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TYPICAL CHARACTERISTICS

SAE Viscosity Grade	30	40	15W-40	PLUS 30	PLUS 40
Product Code	11330	11340	11354	11363	11364
API Gravity (ASTM D-1298)	29	29	30	29	29
Viscosity (ASTM D-445):					
cSt @ 40°C	100	134	92	109	134
cSt @ 100°C	11.1	13.7	13.4	11.8	13.7
SUS @ 100°F	520	704	471	576	704
SUS @ 210°F	64	74	73	67	74
Viscosity Index (ASTM D-2270)	96	97	147	96	97
Pour Point (ASTM D-97)					
°F	-20	-15	-25	-20	-15
(°C)	(-29)	(-26)	(-32)	(-29)	(-26)
Flash Point (ASTM D-92)					
°F	450	450	420	450	450
(°C)	(232)	(232)	(216)	(232)	(232)
Sulfated Ash (ASTM D-874) %	0.42	0.42	0.42	0.59	0.59
Phosphorous Content, ppm	300	300	300	300	300
TBN (ASTM D-2896)	4.0	4.0	4.0	5.1	5.1
API Performance	- CC	- CC	- CC	CF,CD, CC	CF,CD, CC

The above data is subject to usual manufacturing variation. For more information or availability, call 1-800-442-LUBE.
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