



# SHELL MYSELLA<sup>®</sup> MA

## High performance medium ash natural gas engine oils

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### Product Description

Shell Mysella<sup>®</sup> MA gas engine oils are premium quality and specifically blended for use in highly-rated spark ignition and dual-fuel four-stroke natural gas engines which require medium ash oils or where “sour gas” is in use. It is a blend of specially selected base oils and a balanced package of additives that provide medium ash with low phosphorus and low zinc.

Shell Mysella<sup>®</sup> MA satisfies the new generation of stationary gas engines designed to meet the emerging legislation limiting the emissions of NO<sub>x</sub>, and those which employ the latest ‘lean’ or ‘clean’ burn technology.

### Applications

- spark-ignited gas engines fueled by natural gas
- “dual-fuel” gas engines, ignited by diesel pilot fuel
- gas engines fueled from gas containing sulfur
- engines operating in severe service or with lower quality fuels which can include direct gathering of field gas and recovered sanitary land fill fuels having low halide levels
- systems with catalytic converters used in both field pumping stations and in co-generation units at hospitals, industrial parks, shopping malls and other locations
- two- and four-stroke natural gas engines that require “medium ash” oils

### Features/Benefits

- provides excellent engine cleanliness
- helps provide improved performance and longer life in engines burning higher sulfur fuels or fuels with corrosive components
- good high temperature performance
- do not contain any bright stock (which can contribute to deposit formation)
- provide a level of detergency, dispersancy and alkalinity not available in oils with lower performance additives
- medium ash level helps to control wear on valve faces and valve seats on some natural gas engines
- meets the requirements (phosphorus level less than 300 parts per million) of industrial exhaust gas catalytic converter manufacturers

### Approvals

- Waukesha – meets the requirements for stationary natural gas engines specifying medium ash oil (Shell Mysella<sup>®</sup> LA for other models)
- White-Superior (except 1700, 2400 series)
- meets the requirements of industrial exhaust gas catalytic converter manufacturers (phosphorus level less than 300 parts per million)
- API CD performance

**Typical Properties of Shell Mysella<sup>®</sup> MA**

	Test Method	SAE Grade	
		30	40
Product Code		67190	67191
Property			
Viscosity:			
@ 40°C, cSt	D 445	95.2	12.8
@ 100°C, cSt	D 445	11.0	13.5
Viscosity Index	D 2270	94	80
Gravity, °API @ 60°F	D 1298	27.6	25.8
Pour Point, °C (°F)	D 97	-27 (-15)	-27 (-15)
Flash Point, °C (°F)	D 92	240 (465)	249 (485)
Neutralization No., TBN-E	D 2896	8.5	8.5
Sulfated Ash, wt%	D 874	0.90	0.90
Phosphorus, ppm	X-ray	270	270
Zinc, ppm	X-ray	290	290

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call 1+800-468-6457 for all of your service needs. All other customers, please call 1+800-840-5737 for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.