

# Shell MYSELLA® Oil MA

## *High performance medium ash natural gas engine oils*

Shell MYSELLA® Oil MA gas engine oil is 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® Oil 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.

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### **Performance Features and Benefits**

- Provides excellent engine cleanliness
- Helps provide improved performance and longer life in engines burning higher sulfur fuels or fuels with corrosive components
- Provides good high temperature performance
- Does not contain any bright stock (which can contribute to deposit formation)
- Provides 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

### **Main 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

Advice on applications not covered in this handbook may be obtained from your Shell representative.

### **Specifications, Approvals, and Recommendations**

- Waukesha – meets the requirements for stationary natural gas engines specifying medium ash oil (Shell MYSELLA® 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

### **Handling and Safety Information**

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

### **Protect the Environment**

Do not discharge into drains, soil, or water.

## Typical Physical Properties

Shell MYSELLA® Oil MA	Test Method	SAE Grade
		40
<b>Viscosity:</b> @ 40°C, cSt @ 100°C, cSt	D 445	128
	D 445	13.5
<b>Viscosity Index</b>	D 2270	80
<b>Gravity, °API @ 60°F</b>	D 1298	25.8
<b>Pour Point, °C</b>	D 97	-18
<b>Flash Point, °C (°F)</b>	D 92	249 (485)
<b>Neutralization No., TBN-E</b>	D 2896	8.5
<b>Sulfated Ash, wt%</b>	D 874	0.90
<b>Phosphorus, ppm</b>	X-ray	270
<b>Zinc, ppm</b>	X-ray	290

*These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.*