



Technical Data Sheet

Previous Name: Shell Mysella LA

Shell Mysella S3 N 40

Low Ash Stationary Gas Engine Oil

Shell Mysella S3 N is a high performance quality oil blended for use in 4-stroke, spark-ignition engines which require a 'low ash' oil and use natural gas as fuel.

Shell Mysella S3 N satisfies the new generation of stationary gas engines designed to meet the emerging legislation limiting emissions of NO_x, and those which employ the latest 'lean' or 'clean' burn technology.

- *Reliable Protection*
- *Low Ash Content for Four Stroke Engines*

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Extended oil life

Significantly prolongs oil life relative to previous generation gas engine oils by resisting oxidation and nitration, viscosity increase and the formation of harmful acids.

Engine protection

Shell Mysella S3 N is formulated with low ash and low phosphorus offering extended life to valves and spark plugs and full compatibility with emission catalysts.

Main Applications



- Spark-ignited gas engines fuelled by natural gas
- May also be used for landfill and biogases

Specifications, Approvals & Recommendations

Shell Mysella S3 N is suitable in engine types where a "low ash" oil is required.

Approved by:

- GE Jenbacher: Series 2, 3, 4 Fuel Class A and CAT. Series 6 (Version E&F) Fuel Class A and CAT
- MAN: Gas engines (Natural Gas, Landfill Gas/Digester ags/Biogas). Dual Fuel (Pilot Diesel),

- MTU: MLT 5074, A001061/29E (Category 1), Onsite Energy Series 400 and 4000
- MWM: TR 0199-99-2105
- MDE: 28xx, 30xx
- MAK: GCM 34
- Nuovo Pignone: Reciprocating Compressor Service Class A
- Perkins: 4000 series
- Rolls Royce: KG-1, KG-2, KG-3
- Wartsila: 34SG, 32DF, 50DF, 25SG, 28SG, 175SG, 220SG, 180SG, QSW, UD 24 S4G, UD 30S4G
- Meets requirements of:
 - Waukesha: 220 GL (Pipeline Quality Natural Gas)
- Caterpillar Stationary Gas Engines
- For engines under warranty, Shell advises to contact the engine manufacturer and Shell representative before using the oil. For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk, or the OEM Approvals website.

Typical Physical Characteristics

Properties			Method	Shell Mysella S3 N
SAE Viscosity Grade				40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	135
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	13.5
Density	@15°C	kg/m ³	ASTM D4052	890
Flash Point, closed cup			ASTM D93A	230
Pour Point			ISO 3016	-18
BN			ASTM D2896	5
Sulphated Ash			ISO 3987	0.45
Phosphorus			ASTM D4047	300

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

■ Health and Safety

Shell Mysella S3 N is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

■ Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

■ Oil Analysis

For optimum results regular oil analysis is strongly recommended

■ Advice

Advice on applications not covered here may be obtained from your Shell representative.

Note: this product is not designed for automotive gas engines