Technical Data Sheet

- *MIXED FLEET*
- *MINIMAL ASH DEPOSITS*

Shell **Mysella R**

High performance very low ash oil for stationary gas engines

Shell Mysella R is a high performance gas engine oil designed for use in natural gas engines which require an "ashless or very low ash" product. Using very low ash technology, Mysella R minimizes carbon and ash deposits on pistons, in ring belt areas, exhaust and intake ports, valve stems and in combustion chambers.

Applications

- ***Recommended for mixed fleet engine operations***
- ***Heritage American 2 and 4 stroke (2 and 4 cycle) spark-ignited engines fueled by natural gas and LP gas, used in:***
  - Gas transmission
  - Gas gathering / storage
  - Gas processing and petrochemical plants
  - Electric power generation
  - Irrigation pumping service

Performance Features and Benefits

- ***Very Low ash level***
  Contribute to clean combustion chambers, pistons crowns and valves which promote long engine life and extended periods between overhauls.
- ***Clean cylinder ports***
  Low tendency to form carbon with a strong detergency system, to avoid port plugging in 2-stroke (2-cycle) engines.
- ***Minimal cylinder deposits***
  The very low ash formulation of Mysella R enables potentially longer spark plug life resulting in increased time between replacements.
- ***Excellent Anti-Scuff / Anti-Wear Protection***
  Protects and minimizes scuffing during the running-in (break-in) period including high BMEP engines.
- ***Excellent cylinder and bearing protection***
  Superior anti-corrosion and anti-oxidation properties.
- ***Field proven performance***
  Outstanding performance in 2 and 4 cycle gas engines that require ashless or very low ash oils.
- ***Long oil and filter life***
  Mysella R is highly resistant to nitration and oxidation, which cause filter deposits, viscosity increase and acid build-up.
- ***Excellent engine cleanliness***
  The detergency of Mysella R will work to clean the heavy coatings of varnish from older engines which have used lower quality oils. (This cleaning action takes place gradually, thereby reducing the chance of blocking oil screens or filters with dislodged deposits.)

Recommendations

Allis-Chalmers, Ajax,
Caterpillar (except 3400, 3500, 3600),
Clark, Climax, Colt-Fairbanks Morse,
Cooper-Bessemer (2-cycle),
Dresser-Rand (Category I,II & III)
International–Harvester, Minneapolis-Moline,Waukesha,
White Superior (naturally aspirated),
Worthington.

Note: Not for use in automotive gasoline engines

Advice

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

Health and Safety

Guidance on Health and Safety are 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.

Typical Physical Characteristics

Mysella R			**30**	**40**
SAE Viscosity grade			**30**	**40**
Kinematic Viscosity		**(IP 71)**		
at 40°C	**mm^2/s**		**101**	**135**
at 100°C	**mm^2/s**		**11.5**	**13.7**
Density at 15°C	**kg/l**	**(IP 365)**	**0.892**	**0.899**
Viscosity Index		ASTM D2270	**> 95**	**> 95**
Flash Point COC	**°C**	**(PMCC)/ (IP 34)**	**218**	**230**
Pour Point	**°C**	ASTM D97	**-18**	**-18**
Total Base Number	**mg KOH/g**	**ASTM D2896**	**2**	**2**
Sulfated Ash	max %w	**(IP 163)**	0.13	0.13
Calcium	max. ppm	ASTM D4927 or D4951	295	295
Phosphorus	**max. ppm**	ASTM D4927 or D4951	600	600
Zinc	**max. ppm**	ASTM D4927 or D4951	75	75

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