



# Shell Lubricants

POWER

Superior engine oil that could withstand a high dust environment was key to saving this energy company thousands in maintenance and consumption costs

Total annual customer saving **US\$42,000**



*Lucky Energy is a power company in Pakistan responsible for the uninterrupted power supply to a textile mill.*

**The customer was experiencing high operational costs due to the effects a high dust environment was having on the plant's engine.**

**Company:** Lucky Energy (PVT) Ltd.  
**Country:** Pakistan  
**Application:** Gas engine  
**Saving:** US\$42,000 per annum  
**Key edge:** Shell Mysella XL, Shell Lube**Analyst**, Shell Lube**Coach** and Shell Lube**Advisor**

After changing to Shell Mysella Oil XL, a specialist lubricant that can withstand intensely dusty environments, outages and product consumption decreased, while oil drain intervals increased. The long-term benefit was that the service life of the engine was extended.

SH10010



DESIGNED TO MEET CHALLENGES



## 1 The Challenge:

With the engine operating in a dusty environment, it was subject to residue build up, an increase in oil consumption, and various maintenance issues. The customer was looking for a solution that would not only protect the machinery but would also generate operational cost savings and increase production time.

## 3 The Outcome:

The customer experienced a variety of operational benefits after implementing the Shell recommended solution. These included:

- An extension in oil drain intervals
- An improvement in machine condition trends
- A reduction in operational costs
- Key staff training on basic lubrication principles
- An increase in safety awareness among power house staff

## 2 The Solution:

By utilising Shell Product Plus Services Shell Lube**Analyst** and Shell Lube**Advisor** to analyse the condition of the existing engine lubricant, the Shell Technical team recommended the change to Shell Mysella XL while monitoring oil conditions at regular intervals.

- Monitor engine oil condition using Shell Lube**Analyst**
- Monitor variations in performance
- Train technical staff using Shell Lube**Coach**
- Ensure safety awareness

## 4 The Value:

Inefficient performance of a gas engine will result in an increase in operational costs and will impact the engine's service life.

Being a 'low ash' oil Shell Mysella XL is a high performance oil and its implementation for this customer extended oil drain intervals and reduced oil consumption resulting in significant annual cost savings of US\$42,000. A fantastic result.

The savings indicated are specific to the calculation date and mentioned site. These calculations may vary from site to site depending on application, operating conditions, current products being used, condition of the equipment and maintenance practices.

### Shell Mysella Oil XL Long life stationary gas engine oil

Shell Mysella Oil XL is a high performance quality oil blended for use in highly-rated, 4-stroke, spark-ignition engines which require a 'low ash' oil. Shell Mysella XL satisfies the new generation of stationary gas engines designed to meet the emerging legislation limiting emissions of NOx, and those which employ the latest 'lean' or 'clean' burn technology. Shell Mysella XL is specially developed to provide extended drain intervals in those natural gas engines where oil life is a limiting operational factor.



#### Step change in oil drain interval

Significantly prolongs oil life relative to previous generation gas engine oils by resisting oxidation and nitration, viscosity increase and the formation of harmful acids, especially in demanding cogeneration (CHP) applications. (When used with landfill or biogases, oil life will be dependent on the level of contaminants in the gas).

#### Excellent piston cleanliness

Superior control of deposits in advanced designs where previous products are not satisfactory.

#### Optimised level of 'ash' components

Helps prolong the life of valves and spark plugs.

#### Low phosphorus level

Compatible with engines equipped with emission catalysts.

#### Main Applications

Spark-ignited gas engines fuelled by natural gas, especially those creating high oil stress. May also be used for landfill and biogases.

#### Complementary Products Table

Equipment	Lubricants
Engine	Shell Mysella LA, Shell Mysella MA, Shell Mysella
Turbocharger	Shell Corena AS, Shell Turbo T
Generator	Shell Alvania RL, Shell Albida



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