

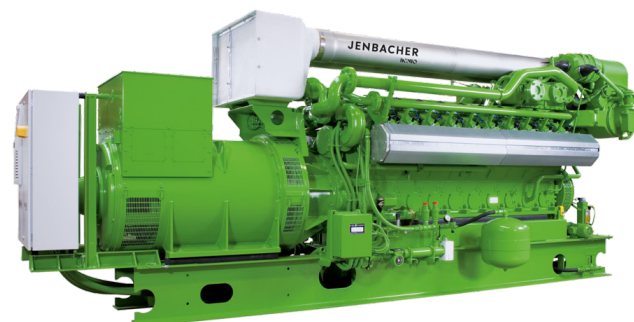
Landfill gas energy customer demonstrates potential annual savings of over £45,000 in productivity, and a reduction of almost 38,000L of oil usage.

## Situation

Over the period of 2015-2016, our customer reported reduced oil drain intervals in many of its engines across multiple landfill sites, resulting in increased maintenance costs and reduced engine availability. Analysis of oil sample reports showed that competitor engine oils were being condemned due to the TAN (Total Acid Number), TBN (Total Base Number) and/or Oxidation levels reaching or exceeding recommended engine OEM limits.

## Recommendation

Mobil Pegasus 605 Ultra 40 was recommended and utilised on a trial basis to demonstrate its ability to extend oil drain intervals whilst maintaining acceptable deposit control and wear protection.



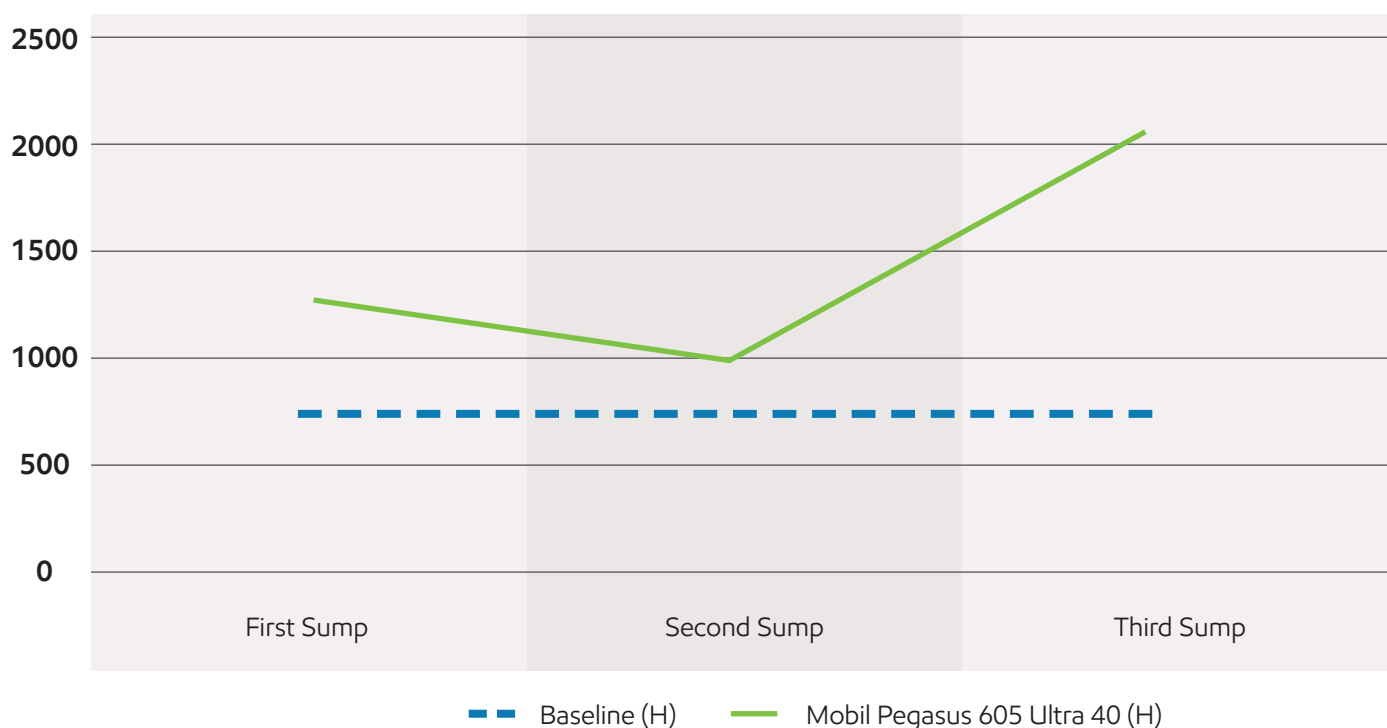
## Results

After completing a seven month trial using Mobil Pegasus 605 Ultra 40, there was a 176% extension in the oil drain interval. This equated to a potential annual saving of £45,086 across all landfill gas engines, a reduction of 37,872L waste oil, and 126 hours less in operator maintenance.

# £45,086

annual savings reported

Oil Life



Comparison between Mobil Pegasus 605 Ultra 40 and baseline from previous medium ash oil

Our customer demonstrated potential annual savings of over £45,000 in productivity , a reduction of almost 38,000L of oil usage , and 126 hours less in operator maintenance .

## Field Test

From the field test, the following additional benefits were observed;

Reduced deposit formation, leading to reduced number of decoke events

### Before

Cylinder Head



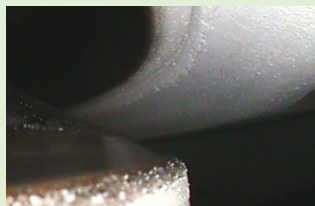
Flame Deck



Piston



Valve



### After

Cylinder Head



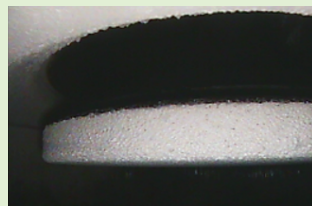
Flame Deck



Piston



Valve



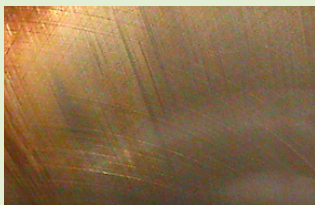
Extended wear protection, even after extending the oil drain interval

### Before

Liner

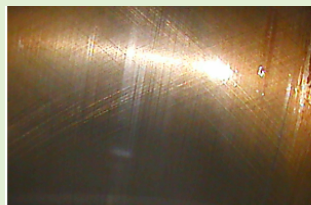


Liner



### After

Liner



Liner



Industrial Lubricants



**Advancing  
Productivity™**

## Advancing productivity

Helping you reach your Safety, Environmental Care\*\* and Productivity goals through our innovative lubricants and services is our highest priority. That's Advancing Productivity. And that's how we help you achieve your broader vision of success.

**Mobil™**

\*This Proof of Performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

\*\*Visit [mobil.com/industrial](http://mobil.com/industrial) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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