

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

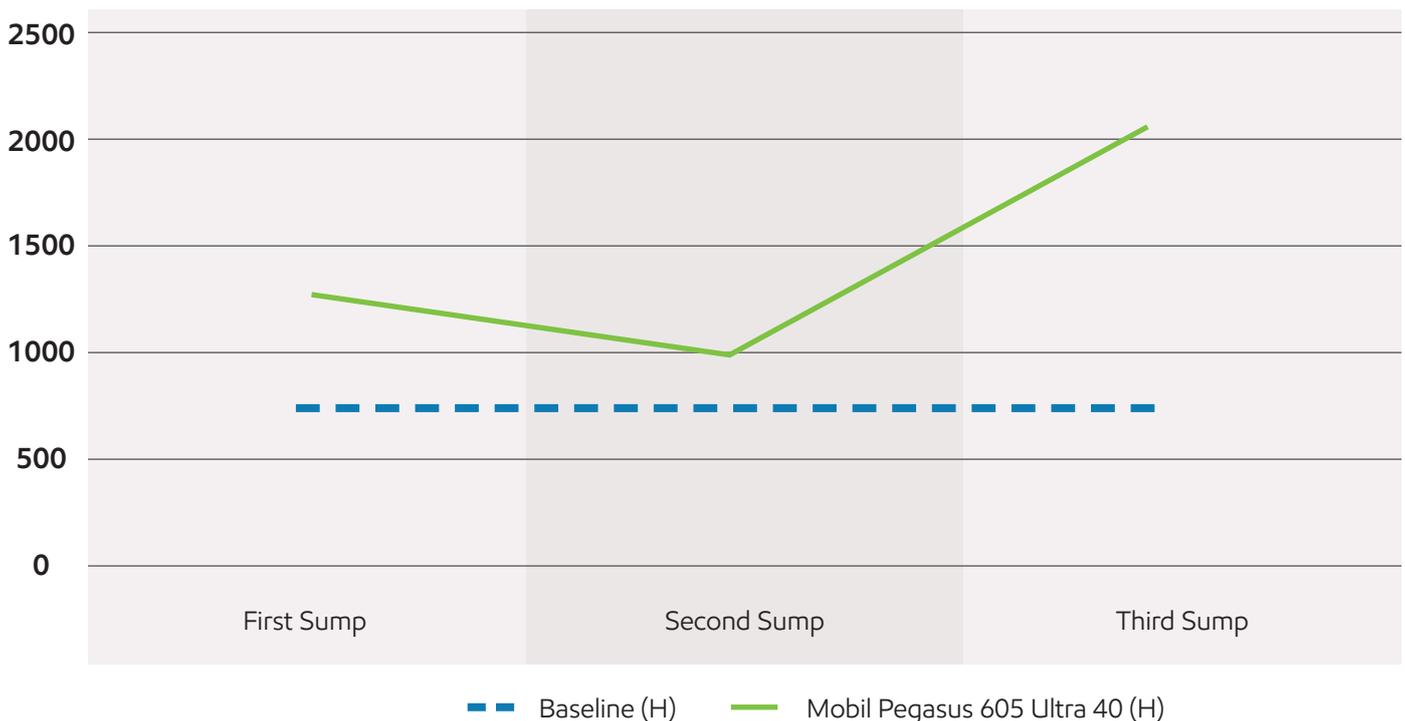
Mobil Pegasus 605 Ultra 40 was recommended and utilised on a trial basis to demonstrate its ability to extend oil drain intervals whilst maintaining acceptable deposit control and wear protection.

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



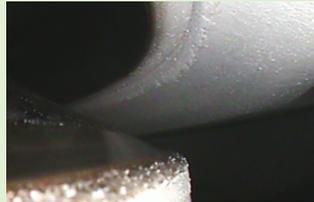
Flame Deck



Piston



Valve



After

Cylinder Head



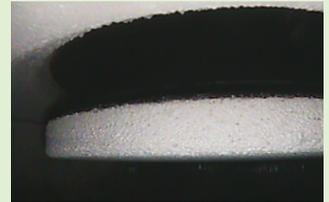
Flame Deck



Piston



Valve



Extended wear protection, even after extending the oil drain interval

Before

Liner

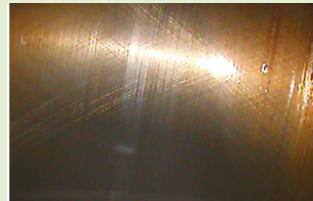


Liner



After

Liner



Liner



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Advancing productivity

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