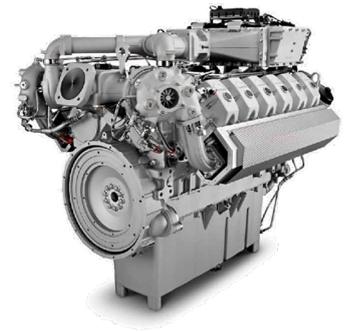


An on-farm anaerobic digester (AD) customer has benefitted from switching over its biogas engine to our higher performance gas engine oil and coolant



## Situation

db Agri's MAN biogas engine was operating on our well-established gas engine oil, where they noticed they were condemning their oil on Oxidation past the engine's condemning limit – They asked Moove if we could recommend a gas engine oil which could extend their ODI (Oil Drain Interval) and keep below the engine's Oxidation condemning limit.

## Recommendations

Moove's Field Engineer assessed their engine's historic used oil analysis data, and identified that they could extend their ODI if they converted to our premium gas engine oil, Mobil Pegasus 605 Ultra – A trial protocol document was created and agreed with db Agri and, after collating the initial reference data, Moove noticed there could be further ODI improvements if they converted their engine coolant over to our high performance coolant, Mobil Coolant Extra.

## Results

After completion of the field test using Mobil Pegasus 605 Ultra, it allowed db Agri to increase their ODI, but the site did want to explore whether further ODI extensions could be made where they could stay comfortably below their engine's Oxidation condemning limit - The introduction of Mobil Coolant Extra addressed local hot spots in the engine, to further extend the ODI, and keep the Oxidation below the engine's condemning limit.

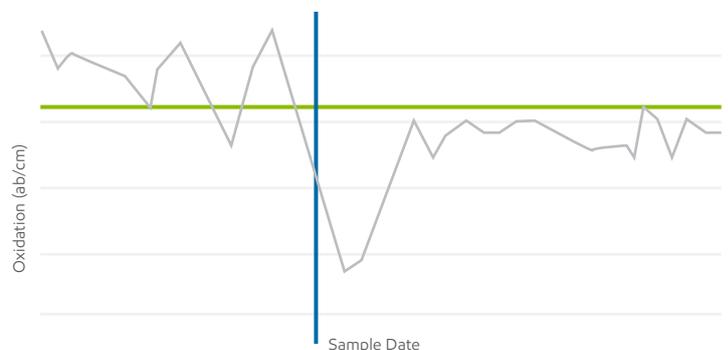
Also, from conducting a 2-year field test of our Mobil Coolant Extra, we concluded that our coolant was fit for a further 1-year of use, extending the previous coolant's drain period by 50%!

**50%** Extension in Coolant Life\*

## Feedback

"It's comforting to see that Moove don't settle just to supply us oil, but push for the performance that end users are looking for to gain an advantage – It goes to show that it's a combination of the oil and coolant which can work together to help an engine perform to the best of its ability."

Frans De Boer  
db Agri Managing Director



The graph above illustrates the improvements in the engine oil's Oxidation, where you can see the Oxidation results being well above the engine's condemning limit (green line) prior to the coolant conversion (left of the blue line), and how the Oxidation is comfortably below this condemning limit after the coolant conversion (right of the blue line).

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\* 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.

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