

Mobil Pegasus 1 synthetic gas engine oil extends Waukesha engine oil interval by 200%*



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Natural gas powered Waukesha VHP L7042GL engines | PGNiG (Polskie Górnictwo Naftowe i Gazownictwo S.A.) | Warsaw, Poland

Situation

Increased carbon deposits were observed on the pistons, cylinder heads and combustion chamber surfaces of Waukesha Series VHP L7042GL Waukesha pumping units, which are commonly installed in natural gas mines in Załecze and Wilków (Zielona Góra branch). Lubricated with high quality mineral oils, these units were operating in harsh conditions. The increased carbon deposits were causing piston - valve interference, which required frequent service. Also, overhaul intervals were shorter than recommended by the engine manufacturer.

Recommendation

The previously used mineral oil was replaced by **Mobil Pegasus™ 1** synthetic gas engine oil in an effort to reduce carbon deposits due to the product's synthetic base oil formulation and its balanced additive system, which is designed to significantly improve oxidation resistance.

Benefit

Mobil Pegasus 1 synthetic gas engine oil allowed the mines to achieve all of their operations and maintenance expectations. Important benefits included oil change intervals that tripled from 1,500 hours to 4,500 hours. The longer oil change interval for the synthetic gas engine oil was determined using test results from the **SignumSM Oil Analysis** program, now offered as **Mobil ServSM Lubricant Analysis**. The estimated savings within the pumping department is expected to reach an estimated US \$150,000 over a 3-year period. **Mobil Pegasus 1** synthetic gas engine oil is recommended by the user for all of their Waukesha Series VHP L7042GL pump gas engines.

US \$50K
in customer-estimated
annual savings

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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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