

Mobil Gargoyle Arctic SHC helps Malaysian beverage company extend oil drain intervals*



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Sabroe refrigerant compressors | F&N Beverages Manufacturing Sdn Bhd | Malaysia

Situation

F&N Beverages Manufacturing operates Sabroe refrigerant compressors, which were previously lubricated with a competitive mineral oil. The compressors were experiencing high oil top-off demand and high oil carry over issues, which affected the final temperature of the evaporator. To maintain performance, the refrigerant compressor was overhauled annually. In an effort to enhance oil and compressor life, the company approached ExxonMobil engineers for an alternative lubricant solution.

Recommendation

After conducting an inspection, an ExxonMobil lube engineer recommended **Mobil Gargoyle Arctic SHC™ 226E**, a NSF-H1 registered synthetic food grade refrigerant compressor oil. Formulated from wax-free, synthetic hydrocarbon polyalphaolefin (PAO) fluids, **Mobil Gargoyle Arctic SHC 226E** is designed to resist oxidation, reduce deposit formation, and protect and extend the life of components used in ammonia refrigeration systems.

Benefit

F&N Beverages Manufacturing reports that **Mobil Gargoyle Arctic SHC 226E** refrigerant compressor oil helped extend oil drain intervals and reduce operating temperatures for an estimated annual savings of US \$22,933.

Impact

After ExxonMobil engineers conducted an oil test using **Mobil Gargoyle Arctic SHC 226E** refrigerant compressor oil, **Mobil Serv™ Lubricant Analysis** results showed that all test parameters were within the control limits. The operating temperature of the compressor was reduced from 92°C to 78°C, which resulted in less oil carry-over and an improvement in evaporator cooling temperature. In addition, F&N Beverages Manufacturing also reported extending oil drain intervals from three months to one year.

Extended oil drain intervals by **4x**

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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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