



Monolec® Refrigeration Oil (6723)

Rochester Coca-Cola Bottling Co. – Rochester, N.Y.

Vilter Ammonia Compressor

- Eliminated wax deposits

Customer Profile

Rochester Coca-Cola has been in business for 85 years. They produce Coca-Cola products in glass bottles, plastic bottles (PET—polyethylene terephthalate), and also in 5-gallon containers. They have been an LE customer since 1981.

Application

A Vilter 100 hp 8-cylinder ammonia compressor, model 448 VMC, is used to cool the soft drink beverages down to 35°F (1.67°C) during the carbonation process. In the carbonation process the blended water and syrup is pumped into a stainless steel tank and pressurized with 60 psi of carbon dioxide. The product runs over ammonia refrigerated plates that cool the product to 35°F, allowing the product to absorb the CO₂ for carbonation. The compressor runs approximately 50 to 60 hours per week.

Challenge

Rich Robinson, maintenance manager, noticed premature wear on the crankshaft of the compressor. When they took the compressor down for maintenance, they also noticed wax deposits in the compressor crankcase. It took the maintenance personnel about three hours to clean up these deposits. They had been using a specialty grade lubricant in this application.

Solution

Don Wilkens, LE lubrication consultant, recommended Monolec® Refrigeration Oil (6723), which is a special lubricant for use in refrigeration systems and with most refrigerants. It contains Monolec®, LE's exclusive wear-reducing additive, and special additives to prevent sludge, assure low temperature fluidity, and to provide longer effective oil life.

Results

After converting to Monolec 6723, they have encountered no wax deposits, which eliminates the need for clean-up. Oil drain intervals are set annually, or at approximately 2,200 hours.

Other Products Used

- Duolec® Vari-Purpose Gear Lubricant (1607) is used in right angle gearboxes.
- Almaplex® Industrial Lubricant (1275) is used in mounted ball bearings and all non-H1 grease applications.
- Monolec® R & O Compressor / Turbine Oil (6401) is used for air line lubricators.
- Monolec® R & O Compressor / Turbine Oil (6404) is used in automatic lubrication system oilers.
- Monolec® Rock Drill Lubricant (6301) is used in air line lubricants with high water content. It was selected because of its emulsifying qualities.
- Syntemp® Synthetic Lubricant (9102) is used on chains and open gears.
- Quinplex® Food Machinery Lubricant (4024) is used in mounted ball bearings in food contact areas in the filler room.

Thank you to Rich Robinson, maintenance manager, and to Don Wilkens, LE lubrication consultant (pictured), for providing the information used in this report.





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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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