



Monolec® R & O Compressor / Turbine Oil (6404)

Country Fresh Dairy – Flint, Mich.

Busch Vacuum Pumps

- Extended oil drain intervals from 30 days to between 90 and 120 days
- Reduced oil temperature
- Eliminated major pump overhauls

Customer Profile

Country Fresh Dairy (formerly McDonald Dairy) processes milk in gallon, quart, pint, and 8 oz. paper and plastic containers. They service the State of Michigan and have been an LE customer since 1989.

Application

Country Fresh Dairy uses six Busch vacuum pumps for pulling the milk containers from the supply machine and onto the fill line. They run approximately 18 to 20 hours per day, six days a week.

Challenge

While using a commercial grade lubricant, the oil in the Busch vacuum pumps was being changed every 30 days. Failures that required either a major overhaul or a replacement were occurring on one of the pumps every two to three months. When the diaphragm on an adjacent machine ruptured, it would allow milk to flow into the vacuum pump. This milk would turn into a taffy like consistency, which adhered to the shaft and rotor causing the pump to overheat. This would ruin the pump if not caught almost immediately by the operator. These major overhauls include the replacement of the pump rotors and end bells plus a standard service kit. The cost of each pump repair was more than \$2,500.

LE Solution

The local LE lubrication consultant recommended Monolec® R & O Compressor / Turbine Oil (6404) to Al Schreur, maintenance planner, and Doug Herweyer, maintenance

supervisor. Monolec 6404 offers excellent oxidation resistance, does not emulsify with water, and adheres to the lubricated parts. This protects against corrosive wear and prevents contaminants from bonding to the parts. It is extremely long lasting in service, does not foam, and contains Monolec®, LE's exclusive wear-reducing additive.

Results

Since switching to Monolec 6404, Country Fresh Dairy has been able to extend their drain intervals from 30 days to between 90 and 120 days. The oil temperature has been dramatically reduced, and the pumps are running quieter. Monolec 6404 has superior film strength which protects the inner components of the pumps against wear. Now when the diaphragm on the adjacent machine breaks, the milk floods into the pump and turns to taffy, but it cannot adhere to the shaft and other key components. A pump repair can be made with a standard service kit costing about \$250. Rotors and end bells are no longer stocked. The savings on five or six failures per year at \$2,500 each is upwards of \$15,000 a year.

Other Products Used

- Duolec® Vari-Purpose Gear Lubricant (1605)
- Monolec® R & O Compressor / Turbine Oil (6406)
- Quinplex® Food Machinery Lubricant (4023)

Thank you to Al Schreur, maintenance planner, Doug Herweyer, maintenance supervisor, and to Matt Pressnell, LE lubrication consultant (pictured), for providing the information used in this report.





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