

Case Study: Almond Butter

Application

Pumping almond butter into a filler machine

Challenge

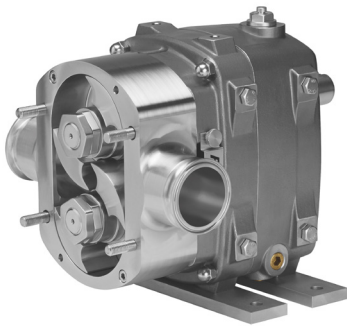
The high viscosity of the almond butter creates elevated pressure in the pump

Issue

The higher pressure can cause wear on the pump rotors

Products with similar challenges

- Other nut butters
- Mechanically deboned meat (MDM)



FKL COP Capabilities

FKL Models: 7

Max. Discharge Pressure: 500 psi (35 bar)

Max. Flow Rate: 450 gpm

Max. Viscosity: 1,000,000 cps



FKL COP Eliminates Downtime + Rotor Replacement

A US almond butter manufacturer was using a tri-lobe rotor pump with rubber rotors to transport their almond butter into a filling machine. Almond butter has a high viscosity, which means a lot of pressure is created when pumping it. As a result of the elevated pressure, the pump rotors began to deflect and rub against the pump housing, causing them to wear out. The almond butter manufacturer needed to replace their worn out rotors every 2-3 weeks, leading to downtime and high repair costs. Over the course of a year, that added up to 17-26 times production was stopped for rotor replacement.

Solution

The processor replaced their old tri-lobe, rubber rotor pump with Fristam's FKL COP pump.

Why It Worked

The FKL COP offers high pressure capabilities and has stainless steel rotors instead of rubber. This means the pump life will be longer, because the stainless steel rotors are much stronger than rubber and do not wear away. The processor was also pleased that the FKL COP was built for easy teardown, since they take apart and clean their pumps every two to three weeks.

With Fristam's FKL COP, the processor is able to reduce downtime and save on repair costs, because the FKL COP rotors, on average, will last over a year, instead of two to three weeks. And since the FKL COP has only three seal parts per shaft, the process of strip cleaning the pumps is much simpler and less time consuming.

To read the complete story, visit: : www.fristam.com/fkl-apps
Call Fristam to discuss your application today: 800-841-5001.