

# **High Viscous Oil**

# Food Processing

**Customer:** Central European Food Processing Plant

**Application:** Food and Beverage

**Products:** Polyfil<sup>TM</sup>, Klearfil<sup>TM</sup>, Stainless Steel Housing.

Primary Motive: Process optimisation
Location: Central Europe

Project Date: 2020

**Division:** New Milton, UK



#### **Customer Overview:**

A Central European food manufacturer, part of one of the world's largest snack companies. Established in the 19th century, the plant produces various products for the food industry.

#### **Customer's Requirement:**

The customer required a compact solution to filter refined oil down to  $0.5~\mu m$ . The highly viscous liquid (30 cSt) contained a range of variably sized particles.

FDA certificates and high-quality products were essential for all items (housings and cartridges) and their accessories (seals, gaskets and end caps).

## Porvair's Solution:

Porvair supplied a 4-filter train, starting with a Klearfil<sup>TM</sup> (10 $\mu$ m), followed by three Polyfil<sup>TM</sup> cartridges 5 $\mu$ m - 1 $\mu$ m - 0.5 $\mu$ m.

Stainless Steel housings AISI 316L were also installed. These were fully compliant with Food and Beverage standards and FDA requirements.

### **Project Overview:**

The customer requested a high-performance solution for the filtration of heavy viscous oils, with the following requirements:

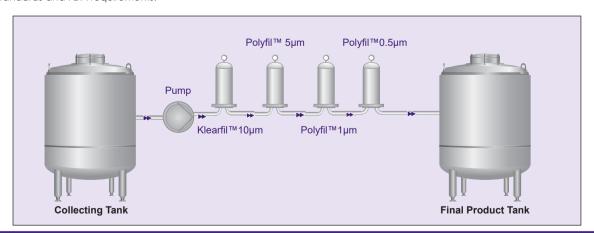
- the removal of a wide range of particle sizes
- fine filtration
- space limitation
- increase filter lifetime
- compliance with FDA certification.

The combination of the Klearfil<sup>TM</sup> and Polyfil<sup>TM</sup> cartridges provided excellent results, exceeding the customer's requirements.

# Other Opportunities:

Food and beverage manufacturers.

High viscous oil filtration in Chemical Process



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