

CASSIDA FLUID CR 46

Case Study



CASSIDA

CASSIDA FLUID CR 46

High performance, synthetic compressor lubricant for food manufacturing machinery.



- Superior lubrication under the majority of operating conditions
- Very good anti-wear performance resulting in greater plant utilisation
- High temperature performance resists the formation of harmful products of oxidation at elevated temperatures resulting in longer oil life
- High viscosity index
- Good low temperature properties down to -40°C
- Neutral odour and taste
- ISO 21469 certified
- NSF H1 registered
- Part of the CASSIDA CR range which includes 32, 68 and 100 viscosity products

Kosher certified



Halal certified



In Partnership with



NSF registered
ISO certified



Nonfood Compounds
Program Listed
ISO 21469 certified

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Customer

The customer is one of the world's leading food and beverage manufacturers, a true global giant and proprietor of some of the world's most well-known brand names. As a supplier of reputation and quality, the company had made a conscious decision to employ a rigorous food safety policy and use only food grade lubricants throughout its manufacturing process.

Application Requirements

At one of its major UK manufacturing locations, the customer has 22 Compair Broomwade compressors of various sizes, using 1.1MW of energy per year, predominantly for packaging requirements. Previously, the customer had used synthetic air compressor oils with oil drain periods of 16,000 hours, but was concerned about whether similar periods could be achieved with "food grade" alternatives. A 16,000 hour duration had not been attempted using a food grade lubricant, which, due to much greater restrictions on the use of additives, would be a considerable challenge. Oxidation stability, viscosity change, oil consumption and elemental wear analysis were all test criteria to prove validity

The Solution

Following an application review by the CASSIDA Technical Support Team, CASSIDA FLUID CR 46 was recommended. The product provided the following results:

- A recorded acid value change of 0.58g/kg after 13,910 hours of use. Based on maximum permissible level of 1g/kg, this gives an estimated oil drain period of 20,000 hours
- Stable viscosity change after 13,910 hours, again confirming suitability of 16,000 hour drain periods and above
- Oil consumption figures well below the anticipated volumes quoted by the OEM
- Stable levels of anti-wear additives after 16,000 hour trials proving that the additives are plating and protecting the metal-to-metal contact surfaces

A cost benefit calculator using factors such as lubricant costs, maintenance costs and energy costs showed an annual saving of £2,800 per compressor through the utilisation of CASSIDA FLUID CR 46. For this customer, with 22 units, this equates to an annual saving of almost £62,000.

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