



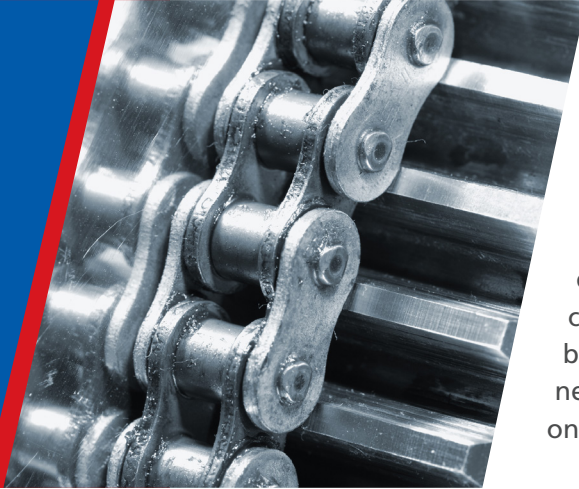
REDUCE DOWNTIME FOR TORTILLA OVENS

INDUSTRY:
Food & Beverage

APPLICATION:
Tortilla Oven

COMPONENT:
Conveyor Chain

LOCATION:
South Africa



BACKGROUND

A bakery that distributes Mexican food products was looking to replace an existing grease that lubricates conveyor chains in a tortilla oven with an NSF H1 Registered lubricant. This oven continuously operates at 300 °C. The company was experiencing downtime every other week due to the conveyor chains getting gummed up and having to be replaced. The assembly includes five chains that never leave the hot zone. The company contacted one of Nye's affiliates, to sample NSF H1 lubricants.

CHALLENGES

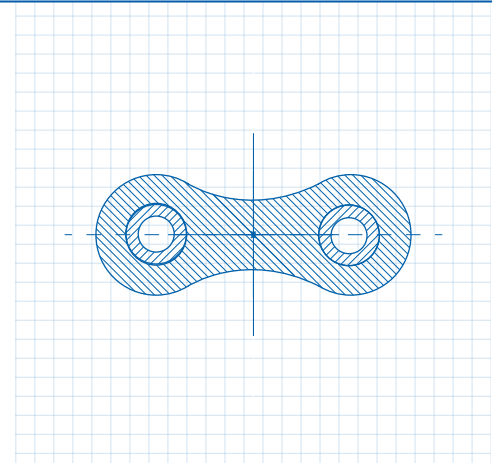
- Which NSF H1 lubricant from Nye can withstand the temperature requirements?
- Can the lubricant eliminate gummy deposits to reduce maintenance intervals and downtime?

SOLUTION

SYNTHETIC OIL 250

Medium viscosity oil that is safe for use in food processing areas.

- NSF H1 Registered, Halal and Kosher certified for incidental food contact
- Excellent high-temperature performance
- Excellent oxidation stability and low volatility
- Good corrosion resistance



RESULTS

After life cycle testing, the customer decided to go with Nye Synthetic Oil 250 as it met all temperature requirements and left no gummy deposits. Synthetic Oil 250 also reduced maintenance costs and downtime for the company, as they do not have to clean and replace the chains as often.

Typical Properties

Base Oil Properties	Conditions	Synthetic Oil 250	Test Method
Chemistry	–	Ester	–
Temperature Range	–	-20 to 280 °C	–
Kinematic Viscosity	40 °C	215 cSt	ASTM D445
Grease Properties			
Density	–	0.96 g/cm ³	CTM*
4 Ball Wear (1h, 1200RPM)	40 kg Load	0.66 mm	ASTM D4172
Copper Corrosion	24 h, 100 °C	1 b	ASTM D4048
Evaporation	24 h, 150 °C	0.10%	CTM*
	24 h, 200 °C	1.4%	CTM*

*CTM: Nye Company Test Method

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Nye Lubricants is a leader in the innovation, formulation and provision of synthetic lubricants, enabling and improving breakthrough products and critical new technologies. We bring proven experience, deep technical knowledge and customer focus to solve our customers' toughest challenges, adding tangible value to products in a wide range of industries and applications.

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