

CASE STUDY: PRODUCT UPGRADE

MOVING YOUR WORLD



VITROLIS IS X200HF

Project Overview

The customer was experiencing operational difficulties due to the high temperatures generated by their IS Machine which included significant leaks and rapid lubricant degradation.

Working closely with the customer, FUCHS upgraded the customer's standard machine oil formulation by offering VITROLIS IS X220HF, specifically targeting areas of concern the customer was having using a competitor product.

When compared to other commercially available synthetic IS lubricants, VITROLIS IS X220HF offers significant improvements in performance due to its highly sophisticated performance-enhancing additives.

The Customer

A major European glass container manufacturer for food and beverage products.

The Problem

Due to the high temperatures generated, the customer had been experiencing problems with the operation of its IS Machine including;

- The central lubrication system for the main open mechanisms suffering frequent significant leaks
- Rapid lubricant degradation
- High fire risks
- Too frequent maintenance requirements

The customer was also looking for a global supplier who could act on a local basis to ensure consistent and efficient supply.

The FUCHS team were tasked with replacing a competitor product with a safer (fewer leaks and lower inflammability risk) lubricant that displays equal or improved performance.

Problem

- Frequent significant leaks within central lubrication system
- Rapid lubricant degradation
- High fire risk
- Too frequent maintenance requirements
- Looking for global supplier with local service capabilities

Solution

VITROLIS IS X220HF

- Low carbon forming tendencies
- Resistance to thermal degradation
- Flashpoint guaranteed >250°C
- Viscosity index of MIN 140
- On-field support and stock management

Results

- No observation of operation failures
- Fewer leaks on different mechanisms
- Reduced risk of fire
- Reduced requirement for maintenance
- Validation run to continue before introduction of product across all plants within the group

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The Solution

FUCHS recommended the use of VITROLIS IS X220HF, a new state-of-the-art synthetic IS machine lubricant formulated to respect major OEM specifications. This product offers efficient glass operation within safe conditions for both equipment and operators.

VITROLIS IS X220HF gives even greater advantages & benefits when compared to our standard grade VITROLIS IS X220 and other competitor products including;

- Low carbon forming tendencies
- Outstanding resistance to thermal degradation
- Very low evaporation loss at high temperatures
- Flash point guaranteed >250°C
- Viscosity Index of MIN 140
- Superior lubricity and wear protection

We are also able to satisfy the customer's requirement for a global supplier with local service capabilities by offering services such as;

- On-site support during the trial, helping the customer identify problems that may present themselves
- Stock management

Results & Conclusion

The product was successfully implemented into one full IS machine at the beginning of January 2022. The customer has since reported;

- No observation of operation failures
- Fewer leaks on different mechanisms
- Reduced risk of fire
- Reduced requirement for maintenance

The validation is confirmed to continue until the end of June 2022. VITROLIS IS X220HF will then be introduced to all plants across the group.

✓ Excellent viscosity stability

Ensures optimum lubrication under extreme temperatures which allows for extended machine overhaul periods and lower energy costs

✓ Superior load carrying capacity

Improves performance, reduces mechanical wear rates and minimises lost production time

✓ High oxidation/thermal stability

Reduces problematical carbon residues to reduce premature wear, fluid leakages and resultant fire hazards

✓ Less lubricant consumption

Provides a cost-effective approach whilst reducing water pollution, improving factory hygiene and lowering waste disposal costs

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