

FUCHS Smart Services

CASE STUDY

Product Implementation

MOVING YOUR WORLD



VITROLIS IS X220 H

The Customer

This customer is a producer of high-quality glass bottles, manufacturing billions each year across multiple plants in different countries.

The Problem

For many years, the customer had been using a competitor's product to lubricate all moving parts of their IS machines. While the product had been manageable, it consistently produced high levels of carbon residue.

With the introduction of newer machines running at higher speeds and operating at increased temperatures, residue formation became a much bigger problem. As a result, the customer had to increase planned maintenance on the interchangeable parts of the IS machines by up to 50%, leading to significant downtime losses.

A second issue became apparent during increased UV inspections. The customer identified a rise in leaks from the machine mechanisms, particularly in hotter areas such as the tong heads and tong arms, where temperatures exceeded 200°C for certain applications.

Problem

- Competitor lubricant caused high carbon residue build-up
- Faster, higher-temperature machines made the issue worse
- Maintenance increased by up to 50%, raising costs and downtime
- UV inspections revealed increased leaks in machine mechanisms

Solution

- Full technical assessment carried out, including thermography
- Recommended VITROLIS IS X220 H lubricant

Results

- Injection cycles extended by ~25%, saving ~€15,000 annually
- Significant reduction in leaks across all application areas
- Significant reduction in carbon residue formation
- Increased stability at high temperature
- Lower fire risk due to reduced leakage

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CASE STUDY

Product Development & Implementation

MOVING YOUR WORLD



The Solution

FUCHS was already supplying lubrication solutions to the customer in other application areas for several years. Giving us the opportunity to discuss similar challenges we had successfully resolved for other customers, highlight our global expertise in high-performance IS machine oils. Based on this experience, the customer recognised FUCHS as the ideal technology partner to help resolve their two critical issues.

At FUCHS, we understand that no two challenges are identical. Therefore, we carried out a detailed technical assessment tailored to the customer's specific situation. This began with a series of technical discussions, followed by a full on-site evaluation. The assessment included thermography of critical application points, with a particular focus on the hottest areas of the machines.

Following this analysis, we identified that the customer could benefit significantly from our latest IS machine lubrication technology, VITROLIS IS X220 H. This product is manufactured from a complex blend of synthetic base fluids and advanced performance-enhancing additives, delivering superior performance compared to other commercially available synthetic IS lubricants.

- Reduced lubricant consumption due to its high viscosity and excellent thermal stability, offering a more cost-effective solution while also lowering atmospheric pollution, improving factory hygiene, and reducing waste disposal costs
- Outstanding viscosity stability, ensuring reliable lubrication under extreme temperatures
- Extended machine overhaul intervals, increased production rates, and lower energy consumption

Results & Conclusion

The customer began a long-term trial of VITROLIS IS X220 H in early 2025. Initially, they used the same injection cycles as their previous product to monitor performance and collect baseline data.

Due to the strong results, phase two involved gradually extending oil injection cycles using a zoned approach across different application areas. So far, this has led to an approximate 25% increase in application cycle length, which is projected to save around €15,000 per year.



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