



# Chevron Glass Machine Oil MV Delivers Results for Major Beverage Manufacturer



The bottling company of a major North American Beverage Manufacturer was experiencing problems with the gear oil it was using in its Individual Section machines. The company also had a time-intensive, cumbersome oil supply system that required the full-time services of a maintenance technician.

## Chevron Glass Machine Oil MV

Formulated from highly refined mineral base oils and containing an additive package with anti-wear, dispersant and detergent properties, Chevron Glass Machine Oil MV is designed as a machine oil and constant cushion oil for I.S. glass container (bottle) machines. It can also be used in linkage and gearboxes, central lubrication systems, mechanical gob distributors, blowhead and funnel cams.

Chevron MV provides excellent sludge and rust protection and superior foam inhibition on metal surfaces. Chevron MV's high viscosity index maintains film thickness at high temperatures and enables long lubricant life by resisting thermal oxidation and viscosity increase.

## The Situation

A producer of more than two million bottles per day, the bottling company of a major North American beverage manufacturer couldn't afford increasing maintenance costs due to poor lubricant performance and related infrastructure design.

Prior to January 2004, the bottling company used an extreme-pressure industrial gear oil in its I.S. bottle-making machines, which required a three-pump system to transfer oil from 55-gallon drums into a 500-gallon tank, and then to the machines. This time-intensive, cumbersome process required three separate automatic timers and the full-time services of a maintenance technician, which was turning out to be cost prohibitive. There were also some flow and performance issues with the gear oil that increased costs by shortening the lives of pneumatic control valves and oil injectors.

*[ABOVE, RIGHT] One of the I.S. (Individual Section) bottle making machines which utilizes Chevron Glass Machine Oil MV*

## Customer Information

Major North American Beverage  
Manufacturer's Bottling Company

## Overview

- A major North American beverage company needed to resolve lubrication and production system problems at its bottling facility.
- The bottler switched to Chevron Glass Machine Oil MV and a smarter, more efficient oil delivery system.

## The Results

- Chevron Glass Machine Oil MV provided superior protection, even allowing the plant to increase its bottle production.
- The simplified oil delivery system helped prevent lubricant waste and increased safety.
- Chevron Glass Machine Oil MV and Chevron's support team helped save the facility \$80,000 a year in labor alone.

## Conclusions

- Using the right Chevron lubricant increases efficiency and can lead to improvements to entire operating systems.
- Chevron provides a complete technology solution beyond delivering superior, industry-leading products.



**“We’re very happy with the new automated system, which has saved us about \$80,000 a year in labor expenses” – Engineering Services Technician.**

### **Chevron Supplies Solution**

When the engineering services technician decided to explore a simplified oil supply system and an alternative lubricant, he turned to Chevron Products Company North America Lubricants Business Manager Bill Karlik and Lubrication Technical Specialist Randy Reynolds for advice. Karlik surveyed the existing operation and recommended Chevron Glass Machine Oil MV. Chevron also introduced new technology and re-engineered the company’s oil supply system.

The company installed a new 2,000-gallon tank to house Chevron Glass Machine Oil MV, and a sophisticated new pump manifold. A single timer replaced the three timers the plant had been using. The system no longer required to be managed manually by a maintenance technician.

According to Karlik, Chevron Glass Machine Oil’s multi-viscosity lets it function like a 15W-40 oil and maintain viscosity at the higher temperatures experienced in I.S. machines during the bottle-making process. “The oil’s detergent dispersant package helps keep mechanisms clean, like the oil ports that might otherwise clog with deposits and slow down the machines,” he noted.

### **Results and Value**

“The gear oil we previously used was not a high enough quality product for our needs,” said the bottling company’s engineering services technician. “It would thicken in cold temperatures and lose its protective film in hot ones. The Chevron oil is a much higher quality product with a far superior additive package to keep valves clean and decrease the possibility of varnishing. Also, since it’s a multi-viscosity oil, it works great with the drastic temperature swings due to operating conditions of a bottle machine and the changing local climate.”

The engineering services technician noted that the Chevron oil provides much better flow through the automatic lube system and significantly improves equipment life and efficiency while extending the life expectancy of valves and injectors. He’s expecting even more benefits and gearbox wear improvement over the next year or two. The facility may also be able to produce more bottles per minute because of faster I.S. machine production speeds.

### **Preventing waste, increasing safety**

The new oil supply system operates on pressure as well as timers, so maintenance staff can find any leaks quickly and prevent wasted lubricant. The staff can also accurately control the precise amount of lubricant supplied to moving parts, which has reduced lubrication consumption by approximately 20 percent, said Karlik.

“We’re very happy with the new automated system, which has saved us about \$80,000 a year in labor expenses” said the engineering services technician. “It’s also saving us a lot of money in lubricants. We’re using less and reducing losses from leakage. Plus, reducing our need to handle 55-gallon drums has improved our safety in this environment. Overall, we feel we are definitely moving in the right direction for the future.”

According to Karlik, “Our goal was to go beyond just delivering product to provide a complete technology solution that met the bottling company’s needs. In this case, we surveyed the entire plant and made recommendations for improving its operation as a whole.”

**For more information, please go to [www.chevronlubricants.com](http://www.chevronlubricants.com)**