



**Oronite**

video transcript

## oronite completes major expansion of Singapore manufacturing facility

### **Narrator**

Unprecedented change has come to the Asia-Pacific Regions lubricants industry where Chevron Oronite completed a major expansion of its Singapore lubricant and fuel additives plant. Impressive in both size and scope, and executed with an unmatched dedication to operational excellence, this expansion means more than just significant increases in supply capacity.

### **Jeff Waite, regional sales manager, Asia Pacific region**

I think what it means to our customers is I now have an infrastructure that can satisfy their needs and their demands for the foreseeable future.

### **Narrator**

When combined with the global network of Chevron Oronite manufacturing facilities, it also means an enhanced ability to meet our customers' fuel and lubricant additive needs more reliably and more efficiently than ever. Already the largest additives manufacturing facility in the region, the Singapore plant was built in 1999 with expansion in mind, to support our customers' needs at a time of phenomenal growth.

### **Jeff Waite**

It got to a point where there was a need to put in a significant amount of infrastructure to increase our component production. To improve our ability on the back end of our business to build out our blending and shipping area. And then, along with that, we took on a huge project to make ourselves even more reliable by having a much bigger footprint to supply the growing needs in Asia.

### **Narrator**

More than simply adding a unit here or there, this fully integrated effort touched nearly every part of the plant. New reactors increase our dispersant production capabilities. And additional tankage significantly boosts the overall storage capacity for raw materials and intermediate products. The production control process was also upgraded with an expanded central control room. And to move our products more efficiently we added new blending and shipping facilities.

### **Raghu Ramamoorthy, general manager, maintenance & engineering, Oronite Singapore plant**

The blending and shipping capacity has a new blender which steps up the capacity by almost 50 percent. And that's also got additional loading base which is almost doubling the capacity.

### **Narrator**

Seven new ISO standard tank loading bays were added to the original six for a total of 13. Complementing this increase is the creation of a new ISO tank park.

A new loading arm at our dedicated jetty accelerates discharge and loading of bulk shipments. Other upgrades included a new and expanded quality control lab with advanced equipment to more rapidly process samples of raw materials as well as finished lubricants and fuel additives. Now complete, this thoroughly modernized facility will help meet additive market demands, which are projected to grow 74 percent by 2023.

**Raghu Ramamoorthy**

With this we can deliver to customer the delivery efficiently on time.

**Narrator**

The Singapore expansion project was a massive undertaking. The project scope and complexity was one of the largest operational excellence challenges in Oronite's history.

**Tom Madilao, general manager, operations, Oronite Singapore plant**

Singapore's expansion project was built in the middle of the operating facility across many sections of the operating plants and covered the whole site, 22.7 hectre. Not only we are manufacturing products during the construction, we actually have to manage contractors working in the operating area. At the peak of the construction activities we have over 1,500 contractors working in operating facility.

**Narrator**

Throughout the expansion process, the facility continued normal operations with the highest priority being the protection of people and the environment.

**Tom Madilao**

People can work together, okay? And understand one another. And collaborate to make sure that we can execute the job safely and on the friendly manner.

**Narrator**

A core tenet of operational excellence – do it safely or not at all – was kept top of mind and reinforced throughout the project.

**Raghu Ramamoorthy**

We completed the project safely with 6.6 million safe man hours.

**Narrator**

The expanded Chevron Oronite Singapore Plant is a vital member of an interconnected network of facilities worldwide, creating one of the strongest supple chains in the additives industry. The Singapore plant is proof of our commitment to remain the premier additives manufacturer in the region.

**Jeff Waite**

Oronite is more than just infrastructure. I mean it's one thing to have facilities in place but the other dimension that you have to have in terms of running a business is relationships. What it really boils down to is enhancing our ability to supply our customers reliably, on time, with quality products to ensure their success.

**Narrator**

It all adds up. Exceptional reliability. Enduring relationships. And innovative technology.