

Success story

Chinese lubricants manufacturer Guangzhou Jetsun uses SpectraSyn Elite™ mPAO to formulate lubricants for industrial robots



Challenge: Improve lubricant performance

Manufacturers in China are increasingly using high-end robotics to automate assembly lines. Serving many customers in the manufacturing, automotive and aerospace industries, Guangzhou Jetsun Lubricant Technology Co. Ltd. understood that robots are complex machines that require specialty lubricants to function properly.

To improve the performance of their lubricants, Guangzhou Jetsun formulators began looking for a base stock with better capabilities. The company contacted ExxonMobil Chemical in search of advice.

Solution: Switch to SpectraSyn Elite mPAO base stocks

ExxonMobil engineers recommended using SpectraSyn Elite mPAO base stocks because they offer excellent performance at both high and low temperatures. Due to its high VI, lubricant viscosity does not build up at high temperatures and is maintained well. Additionally, it provides optimal film thickness to deal with shock loading or boundary conditions. At low temperatures, its properties allow for good oil flow, enabling equipment to start at lower temperatures.

Particularly suited for industrial oils requiring high stability under severe operating conditions, SpectraSyn Elite mPAO base stocks can be used in combination with lower-viscosity fluids (PAO, mineral oils) to achieve a wide range of lubricants and greases.

Result: Improved lubricants to meet complex customer requirements

SpectraSyn Elite mPAO base stocks helped Guangzhou Jetsun to produce better-quality specialty lubricants for their customers that require increasingly complex capabilities from the lubricants they buy. Through ongoing collaboration, ExxonMobil Chemical and Guangzhou Jetsun continue to create innovative solutions. Guangzhou Jetsun's technical director Hui Xiang says, "We are like real partners that are developing together and achieving a win-win result."



"ExxonMobil Chemical's metallocene PAO performs well under extreme conditions, adding key benefits to our products. We choose ExxonMobil because of our trust in its product quality and services."

– Hui Xiang, technical director,
Guangzhou Jetsun Lubrication
Technology Co. Ltd.

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