

Mobil Vacuoline™ 525 circulating oil helps steel mill reduce equipment downtime and enhance productivity*



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Rolling mill SKET 150 | Steel mill | Ukraine

Situation

A Ukrainian steel mill lubricated the bearings of its finishing blocks with **Mobil Vacuoline™ 525** circulating oil before another lubricant supplier recommended transitioning to a competitive ISO VG 100 conventional mineral oil. Almost immediately, the competitive mineral oil demonstrated poor water separation, emulsion formation and a buildup of contaminants, which resulted in persistent bearing failures. After experiencing these failures, the steel mill approached ExxonMobil to determine how to improve lubricant performance and reduce equipment downtime.

Recommendation

ExxonMobil engineers recommended switching back to **Mobil Vacuoline 525**, which is formulated to provide superior wettability and oil retention for robust wear protection as well as thin film rust and corrosion protection. In addition, the excellent demulsibility performance of the **Mobil Vacuoline™ 500** circulating oil series is designed for water and other contaminants to separate readily in the system reservoir.

Impact

After transitioning back to **Mobil Vacuoline 525**, the steel mill experienced immediate improvements in the circulating system's ability to separate high volumes of water. As a result of this enhanced performance, the company significantly reduced its use of centrifugal separators and reduced bearing failures and replacements, helping increase plant up-time by 48 hours per year.

Benefit

The company reports that the improved lubrication enabled by **Mobil Vacuoline 525** circulating oil reduced its centrifuge operating costs as well as bearing replacement costs, and increased plant productivity.

Company-estimated
annual savings of
US \$57.7K

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*This Proof of Performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

**Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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