What are the primary advantages of multigrade lubricants?

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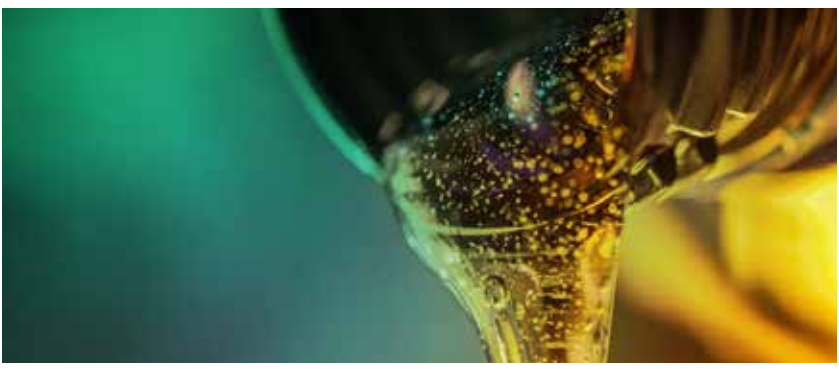

Due to the benefits it provides, this is the most common lubricant on the market, especially because engines need an increasing amount of these chemicals.

Additionally, the multi-viscosity property indicates that the lubricant gets less viscous as the temperature increases and becomes more viscous as the temperature decreases. This enables the fluid to be used in a wide variety of thermal oscillation-related conditions.

However, there are additional benefits to using this sort of lubricant. Its versatility and stability shorten the time required for changes. When combined with superior antioxidant qualities, it extends the time between changes, resulting in increased equipment availability, labor effciency and other environmental benefits.

Furthermore, as technology advances and equipment becomes more demanding, the use of high-quality lubricants, such as multigrade lubricants, is even more crucial. This choice allows for increased performance and an improved cost-benefit ratio. This occurs as a result of the fluid's increased fluidity, which adapts itself to the demands of temperature.

Additional advantages of multi-viscous over mono-viscous lubricants include the following:

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- decrease in friction losses
- easy cold starts
- lubrication across a broader viscosity range
- lower wear on an engine or equipment
- decrease of lubricant consumption
- preventing the collection of residue, which keeps the equipment cleaner for a longer period of time

How does the multigrade lubricant assist in the industry's cost reduction efforts?

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Numerous factors demonstrate the cost savings associated with this type of lubricant. The first point is the greater interval between oil changes. With fewer changes, the lubricant is used more effciently which results in less purchasing by the organization.

Another significant factor is the reduction in fuel and electricity use. Although this spending reduction is not always visible, it does occur, as PETRONAS's technical advisor Eliézer Vasconcelos, emphasizes:

“Lubricant producers are becoming more integrated with equipment makers today. Di erent tests prove a reduction in fuel or power use. Consumption savings of up to 10% are attainable when utilizing a multigrade fluid in comparison to conventional hydraulic fluids, depending on the operating circumstances of the equipment.”

Therefore, in addition to analyzing the product's price, a cost-benefit analysis is needed, as well as an assessment of the lubricant's requirements for the equipment that will use it. The extended changeover period must be considered to achieve increased machine uptime and reduced investment in lubricants.

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