Castrol Performance Bio HE Eliminates Fires

METALS (USA)

Foundry - Central Oil Lubrication Castrol Performance Bio® HE 32 PBL* **ANNUAL SAVINGS: \$62,810**

THE SITUATION

The foundry of a major agricultural equipment manufacturer was experiencing 1-2 fires per year with their central lubrication oil.

Each fire would require the line to be down for 1-2 days while all mechanical, electrical and hydraulic components were replaced. There was also a very real concern with operator safety.

BEFORE

- Light viscosity (ISO 22) mineral oil with low flash point
- Fires per year: 1 or 2
- · Cost per fire: estimated at \$75,000
- Oil usage: 5,000 gal/year

AFTER

- Plant-based oil with 69% higher flash point and 50% higher fire point
- No fires since implementation over 1.5 years ago
- Oil usage: 3,200 gal/year (36% reduction!)

THE SOLUTION



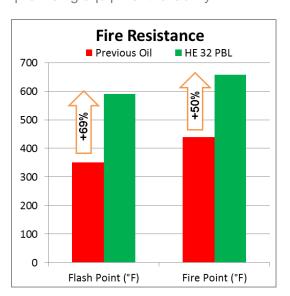
- Castrol surveyed the application and determined that the low flash point and high usage of the previous oil was putting the foundry at high risk for fires.
- Performance Bio HE 32 PBL was chosen due to its high flash and fire points imparted from the natural plant-based oil.
- In addition, the higher viscosity and improved lubrication qualities would allow the usage to be reduced, which would further lower the fire risk.
- Castrol investigated the lubrication system and determined that a higher viscosity oil would work with no modifications necessary.
- We worked with the customer to adjust the timer settings properly to lower the usage.



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RECOMMENDATIONS

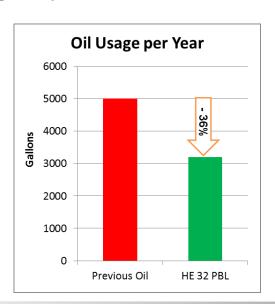
This foundry utilizes a Trabon central lubrication system to feed various lube points such as pins, journals, links, and bushings. The large number of lube points, low flash point, and high usage of the previous oil all contributed to fires. Castrol was able to address the flash point and oil usage to dramatically reduce the fire risk without compromising equipment reliability.



CONCLUSION

While each fire is estimated to cost \$75,000, the customer believes the true cost is much higher when the safety consequences are factored in.

The customer invested in the higher performance HE 32 PBL and eliminated fires, resulting in \$62,810 in annual savings plus greater peace of mind.





OTHER APPLICATIONS

Castrol Performance Bio HE PBL fluids are plant-based hydraulic and circulating oils which provide outstanding natural lubricity, high flash & fire points, and an environmentally responsible option for our customers.

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