

Outstanding Saw Blade Life on Steel Tubes

METALS (USA)

Tube Sawing

Castrol Hysol® MB 50

ANNUAL SAVINGS: \$15,215 per machine

THE SITUATION

A tube manufacturer in the South was looking to increase saw blade life on HSLA (High Strength Low Alloy) steel tubes being processed with Bewo cutting systems. They planned a controlled test of multiple coolants to determine blade life and overall cost per part.

BEFORE

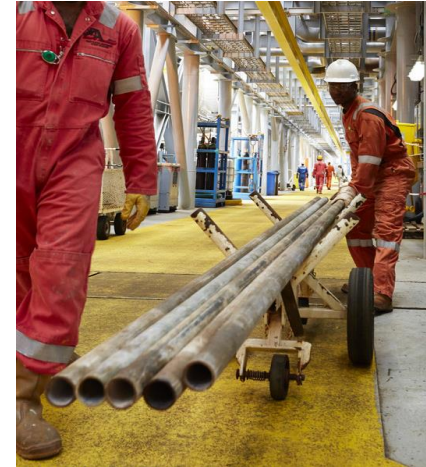
- Incumbent fluid: semi-synthetic coolant that was being discontinued
- Customer designed a test to measure saw blade life of 7 replacement coolant options

AFTER

- Three fluids failed since they achieved less than 15,000 parts/blade
- **Hysol MB 50** attained **60,000 parts/blade** - 1.7X higher than the next best fluid and **2X higher** than the incumbent

THE SOLUTION

- Castrol Hysol MB 50 semi-synthetic fluid is well proven as an industry leader in performance.
- For this reason, it was offered to the customer to help achieve maximum tool life.
- Due to the outstanding blade life of MB 50 in the test, the customer ceased further testing and converted to the Castrol fluid.



- **Saw blade life of 60,000 parts on HSLA steel**
- **Lowest total cost per part**

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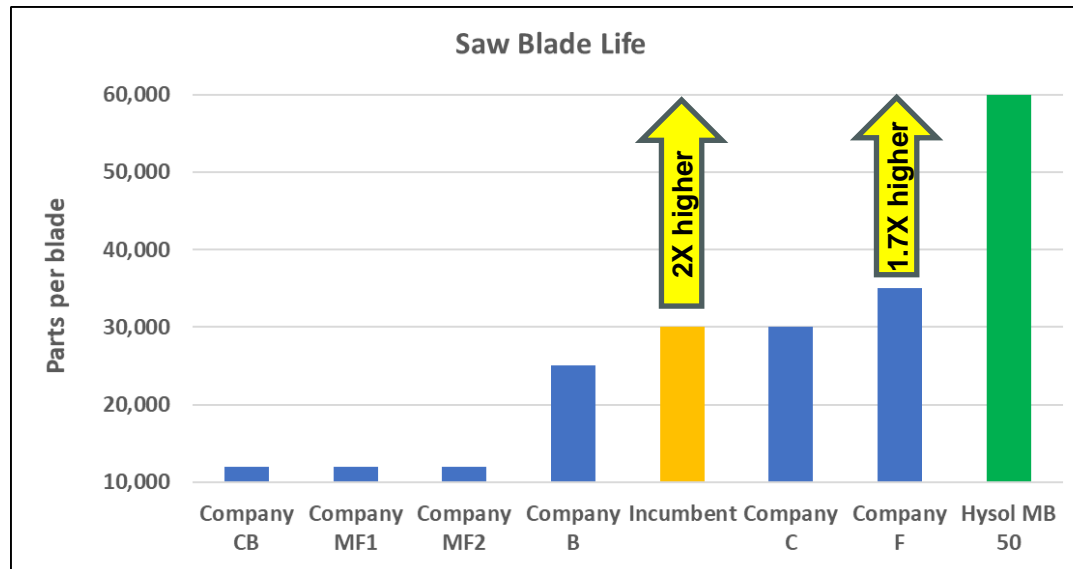
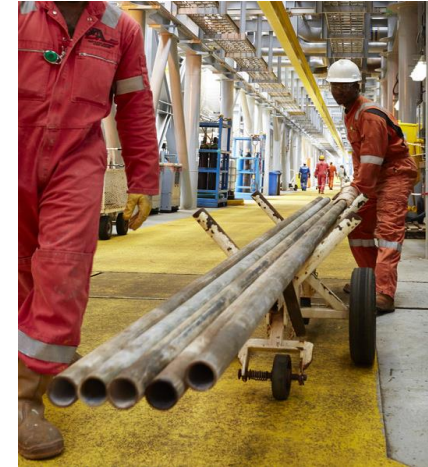
RECOMMENDATIONS

In addition to the tool life study, the customer also tested the coolants for rust protection. Hysol MB 50 passed their 90-day test with no corrosion while running at a lower concentration than the other fluids.

CONCLUSION

The customer ran a tool life test and found that Hysol MB 50 achieved the longest life, correlating to 25% lower cost per part for tooling & coolant as compared to the next best fluid.

This resulted in \$15,215 of annual savings per saw.



OTHER POTENTIAL APPLICATIONS

Castrol Hysol MB 50 is one of the world's most utilized metalworking fluids due to its overall versatility to work in many applications and multiple metals, while providing uncompromised machining performance and rust protection.