

New EDM Fluid with Extremely Low Odor

MACHINERY MANUFACTURE (USA)

Construction Equipment

Castrol Ilocut® EDM 200

Benefits: No odor, great operator acceptance



THE SITUATION

A major construction equipment manufacturer needed a replacement EDM fluid due to rationalization of their previous fluid.

They sought a replacement that would be an improvement in the areas of odor, smoke, and operator acceptance.

BEFORE

- EDM fluid from Company M being obsoleted
- Odor was offensive to operators
- Smoke was prevalent during operations

AFTER

- Castrol Ilocut EDM 200
- Almost no odor detectable
- Much lower smoke
- Operator acceptance is very high

THE SOLUTION

- Another supplier initially offered fluids that were not acceptable for the operation (grinding fluids).
- Castrol evaluated the customer's needs which included long oil life, low odor, and high approval from the operators.
- Castrol's latest technology EDM fluid, Ilocut EDM 200, was selected to meet these needs.
- After testing side-by-side with the incumbent fluid, the customer was very pleased with the lower odor and smoke.

- **Virtually no odor**
- **Low smoke**
- **Excellent operator acceptance**

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RECOMMENDATIONS

This customer uses a sinker-type EDM process (Hansvedt machines) to sharpen the shear blades used to create bulldozers and other construction equipment. They change the fluid every 3 months, as they did with the previous oil, due to contamination build-up. Because of the long life of the Ilocut EDM 200 fluid, we have recommended that they can greatly extend this interval with minor improvements in filtration.

“This oil smokes a lot less and has a much milder odor.”
– **Machine Operator**

CONCLUSION

The final result was an improved fluid which provided much lower odor, less smoke, and fantastic operator acceptance. Future improvements related to longer oil sump life are also possible with the implementation of small filtration enhancements.

*EDM
Machine*



OTHER POTENTIAL APPLICATIONS

Castrol Ilocut EDM 200 was designed with the latest base fluid and anti-oxidant package, providing lower odor and longer life than other traditional EDM fluids.

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