

Improved rust protection for cast iron parts

AUTOMOTIVE (USA)

BRAKE DRUMS AND ROTORS

Castrol Rustilo® 4175

Elimination of foam and residues



THE SITUATION

A large commercial wheel manufacturer in the south was experiencing foaming and residue issues with cast iron rotor and drum brake components. Foaming led to slowed production and a white residual film required the end user to add an additional manufacturing step to clean and prepare parts for installation.

BEFORE

- Alkaline cleaner used to clean components and provide rust protection
- Excessive foaming and a white film on the parts after drying
- End user unhappy with having to reclean parts before use

AFTER

- Castrol Rustilo 4175 synthetic, water-soluble rust inhibitor was offered to replace the cleaner
- No more foaming during wash cycle
- Residual white film issues were eliminated

THE SOLUTION

- The Castrol team examined the parts, process, and packaging to determine that Rustilo 4175 was the right solution for the problem.
- In addition to improved rust prevention, Rustilo 4175 was able to provide adequate cleaning to meet the customer's standards, requiring no additional steps for the wash cycle.
- The additives in the previous fluid were causing excessive foam. By switching to a water-soluble rust inhibitor, production delays were greatly reduced.

- **Rustilo 4175 can provide rust protection for up to 9 months indoors with proper application and storage**

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RECOMMENDATIONS

Most manufacturers have a need to protect their parts all the way to the end user. Brake drums and rotors can be especially difficult when it comes to providing adequate corrosion protection, because oily films on the components are not typically desired. Rustilo 4175 provides a quick drying time, low odor, and dry-film solution to improve production times while protecting the components all the way to the end user.

CONCLUSION

This manufacturer was receiving a high volume of complaints from end users about residual films and corrosion on parts received. End user complaints dropped significantly after implementing Rustilo 4175 into the part wash process. Improved end user acceptance has strengthened their customer relationships and supported their sales growth.

Production issues were eliminated while improving customer satisfaction.



OTHER POTENTIAL APPLICATIONS

Rustilo 4175 can be used to protect a variety of metals in processes where medium-term indoor storage is required. It provides a dry-film that allows for paint and welding processes without removal.