



Case Study

The Challenge: Enable New Disk Brake Grinding Process

Castrol Syntilo 9913

\$323,000 Annual Savings

A major automotive company implemented a new and revolutionary grinding process for Disc Brake Rotors at their largest Engine Plant. The process allowed them to be the industry leader by lowering their costs. Tool life on the new CBN grinding stones was substantially lower than projections, and the customer struggled to reach cost targets.

Syntilo 9913 not only improved our tool life but also eliminated the costly recharging (labor and coolant) of the coolant tanks each month.

Before:

Low CBN wheel life
Monthly dump and recharge of central system

After:

Longer CBN wheel life (\$267,300 savings)
Dump and recharge interval extended to 1 year
Lower coolant cost (\$22,500 savings)
Lower labor cost (\$34,000 savings)

Result: Utilization of Castrol Syntilo 9913 in the central coolant system not only improved wheel life, but eliminated monthly system dump and recharge requirements.

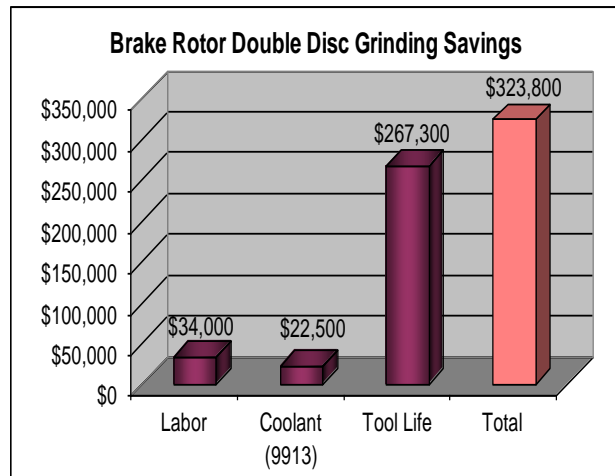
Syntilo 9913 not only improved tool life but also eliminated the costly recharging of the coolant tanks each month. Prior to the use of Syntilo 9913, the system had been dumped monthly. Currently it has run for almost a year without having to be dumped and recharged. This has eliminated over 24,000 gallons of waste fluid.



The low pH (about 8) of this fluid makes it very user friendly from a dermal standpoint and affords it a high level of operator acceptance due to the fact that it has almost no odor.

Recommendations: “We approached Castrol with our situation and through their recommendations we tested several coolant types. We eventually settled on Syntilo 9913, which drastically improved our tool life and lowered our costs. We would not have been able to realize the full benefits of the new grinding process without the great service and products provided by Castrol. Below is a small chart depicting the actual dollar savings that we were able to realize in 2004 . The Syntilo 9913 not only improved our tool life but also eliminated the costly recharging (labor & coolant 9913) of our coolant tanks each month.”

Brian Willeke
Engineering Coordinator



Segment: Automotive

Sub Segment: Powertrain and Components

