



## CaseStudy

### The Challenge: Increase Coolant Life and Honing Uptime

#### **Castrol Syntilo 9974**

#### **108 Hrs of Uptime Totalling 6480 Engine Blocks Annually**

Customer was incurring frequent coolant system dumps due to high dirt content on their Engine Block Honing operation. This resulted in 12 hours of downtime every 6 weeks.

The uptime is worth 1 engine block per minute.

#### Before:

- System dumps every 6 weeks
- 2500 gallons per dump
- 12 hours of downtime each change
- 720 blocks lost production per dump

#### After:

- No system dumps in a year
- 6480 blocks increased production
- 22,500 gallons of reduced coolant waste
- 108 hours of increased uptime

#### **Result:**

Castrol Engineers helped design a new filtration system that greatly reduced the dirt level and extended the system dump cycle past one year.

Castrol Engineers' expertise in Root Cause Analysis and filtration system design solved the contamination problem.



*The knowledge of Castrol's Metalworking Engineers helped increase production by 6280 engine blocks.*

## Recommendations:

Castrol recommended a magnetic filter system that pulled out the majority of system contamination. This system had been utilized at other Castrol customer sites, which served as reference for this opportunity.

Process knowledge and engineering expertise are invaluable in the metalworking industry.



**Segment: Automotive**  
**Sub Segment: Engines**

