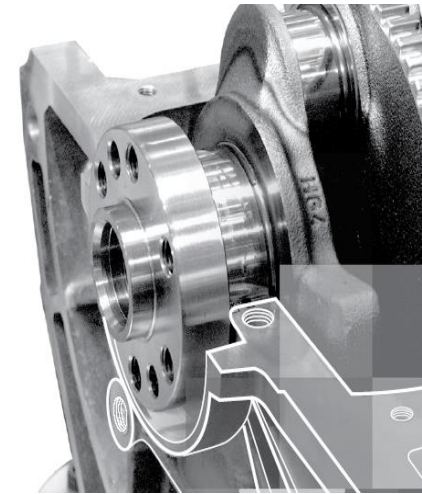


# Crankshaft Grinding Improvement

## AUTOMOTIVE (USA) ENGINES

Castrol Variocut® G 600 HC\*

**ANNUAL SAVINGS: \$42,040**



### THE SITUATION

A major automotive company converted to a new grinding oil based on a lower price and the need to reduce mist in the facility. The mist improved slightly, but they began to see significantly higher tool usage in addition to major filtration issues.

The customer challenged Castrol with finding a neat grinding oil that was low mist while maintaining excellent tool life, low oil usage, and better filterability.

### BEFORE

- Competitor's neat grinding oil formulated with conventional mineral oil
- Tool life of 8,000 parts/wheel
- Filtration problems
- Downtime of 2 days per month
- Misting problems still present

### AFTER

- Castrol Variocut G 600 HC grinding oil using advanced hydro-cracked base oil
- Tool life of 12,000 parts/wheel
- Filtration problems eliminated
- Downtime eliminated
- Misting problems eliminated

### THE SOLUTION

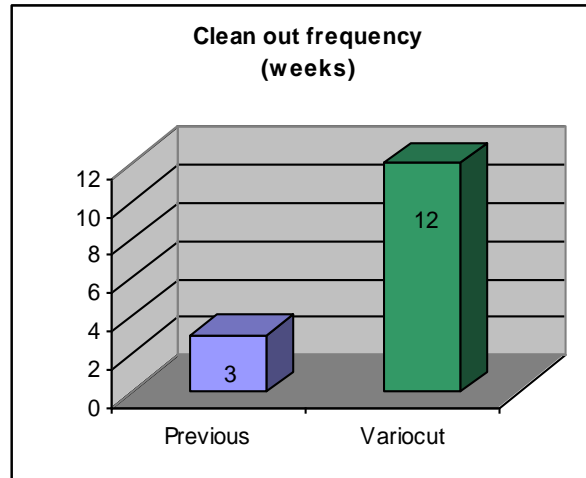
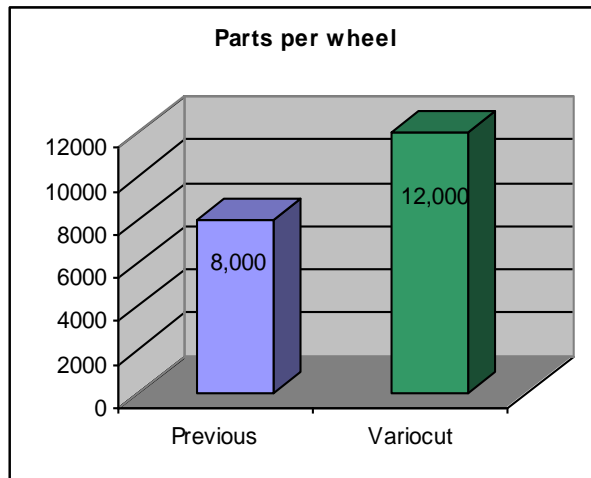
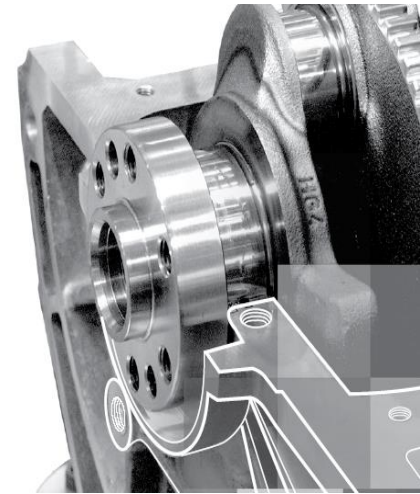
- Castrol had experience with this application in numerous other facilities and had recently developed Variocut G 600 HC with the latest technology base stocks and additives available.
- This experience and the latest technology fluid allowed Castrol to meet the needs of the customer:
  - Low Mist
  - Long Wheel Life
  - Excellent Filterability
  - Low Maintenance
- Castrol supports this customer with routine visits and regular sampling, to catch potential issues before they become major problems.

- **Tool life increase of 50%!**
- **Elimination of major filtration problems**
- **Much needed health and safety improvements.**

\* Formerly known as  
Variocut G 600 HC NA

# Crankshaft Grinding Improvement

Parameter	Competitor	Variocut G 600 HC	Observations
Pieces per wheel	8,000 pc / wheel	12,000 pc / wheel	50% tool life increase. <b>Savings of \$4,000 per year.</b>
Filter problems	Multiple	None	Fines causing pump seals to fail, pre-coat to clog, and high filter media usage. <b>Total savings of \$38,040 per year.</b>
Downtime	2 days / mo.	None	Downtime was due to filter problems.
Mist problems	Yes	No	Mist problems drastically diminished.



## OTHER POTENTIAL APPLICATIONS

Castrol Variocut G 600 HC uses the latest technology, hydro-cracked base oils and advanced additive technology to provide the highest performance in today's demanding grinding applications.

Castrol, the Castrol logo and Castrol Variocut are trademarks of Castrol Limited, used under licence.