

CASE STUDY 46

(A CHLORINE AND BORON FREE PRODUCT FOR CRANKSHAFT GRINDING)



CUSTOMER DETAILS:

An Indian multinational automotive manufacturing company producing passenger cars, trucks, vans, coaches, buses, sports cars, construction equipment and military vehicles.



OBJECTIVES FOR CONDUCTING THE TRIAL

- 1. To achieve the required finish.
- 2. No EHS Issues Operator & Environmental Friendly.
- 3. To reduce the cost of oil.
- 4. No foaming issue



OPERATING / APPLICATION DETAILS:

Machine: Landis M/C, UK Based

2. Tank Capacity: 10000 Ltrs

Part : Crank Shaft
Material : 42crMO4
Application : Grinding
Cycle time : 18 Min

7. Tool - CBN Grinding Wheels

8. Filtration: Conveyor

Wheel Coolant Pressure: 65 to 70 bar
Grinding Coolant Pressure: 15 to 25 bar

11. Chiller unit: Available12. Grinding Dept: 1.2mm13. Surface Finish: 0.6 Micron

14. Trial Evaluation period - 3 months



COMPONENT VIEW





PRODUCT RECOMMENDED: HICUT 6710

TRIAL RESULTS

The following trial objectives have been met successfully



Achieved required finish. 0.6 Micron

