

# CASE STUDY 61

(A CHLORINE AND SULPHUR FREE PRODUCT FOR HONING OF CYLINDER BLOCKS)



## CUSTOMER DETAILS :

A company in South of Karnataka is involved in manufacturing of engine cylinder blocks, head castings, tractors axle housings, clutch housings and gear box housings.



## OBJECTIVES FOR CONDUCTING THE TRIAL

1. Need Cost Reduction.
2. No EHS issues [Skin and Eye Irritation]
3. Need to achieve the required finish. Ra- 1.6 ~ 2.5



## OPERATING / APPLICATION DETAILS:

1. Machine : Honing Machine [Deepmaya Engineering]
2. Tank Capacity : 100 Litres
3. Material : Cast Iron
4. Component : Cylinder Blocks
5. Trials taken quantity : 60 Litres
6. Application : Honing

7. Cycle time : 16 minutes
8. Tool – Diamond tool
9. Filtration : Magnetic Roller
10. Number of Spindles : One
11. RPM : Depends on application



## COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT HONE CSF

## TRIAL RESULTS



Good flushing properties



Good visual finish



Achieved required finish. Ra - 1.6



No EHS Issues observed - Operator & Environmental Friendly