

# CASE STUDY 56

## (A LOW VISCOSITY HONING OIL)



### CUSTOMER DETAILS :

One of the quality driven organization manufacturing & Exporter from Rajasthan producing a wide range of Bearings: Ball bearings, Taper Roller Bearings, Railway Bearing, and Large Dia. Bearings.



### OBJECTIVES FOR CONDUCTING THE TRIAL

1. Need to achieve the required finish & performance.
2. To reduce the cost of oil.
3. Avoid Black Stain on face of bearing



### OPERATING / APPLICATION DETAILS:

1. Machine: Super finish (Honing) grinding
2. Tank Capacity: 20000 Litres
3. Part: (Bearings)
4. Material: Bearing Steel- SAE 52100
5. Application: Super Finish Grinding
6. Steps: 02 : Rough Finishing & Final Finishing
7. Tool : Honing Sticks  
Super finish Stone for (1). Rough Grit - 3000 (2).  
Final Finish Grit 600 (Imported)

8. Filtration: Through Pre-Coating
9. Initial Loading: Top -up in 20000 litres Tank
10. Results Required: Super finish allowance  
0.025 microns max



### COMPONENT VIEW



**PRODUCT RECOMMENDED: HICUT HONE CSF**

## TRIAL RESULTS



Trial Evaluation with the period of 12 months



Achieved Required RA in range below 0.02 Micron



Less Consumption



Better super finish with approx. 0.005 micron



No Black Stain observed in 12 months



Cost saved ~ 15 % +