

# CASE STUDY 87

(SEMI-SYNTHETIC COOLANT FOR PRECISION COMPONENTS)



## CUSTOMER DETAILS :

A renowned group from Karnataka (south India), a diversified manufacturer and supplier of high precision components and assemblies, catering to a global clientele in the automotive & industrial and aerospace sectors.



## OBJECTIVES FOR CONDUCTING THE TRIAL

1. Need to achieve the required finish – Required finish: RA 0.6
2. Reduction in consumption cost
3. Good Rust protection
4. No EHS Issues ( No Skin & eye irritation )



## OPERATING / APPLICATION DETAILS:

1. Machine: AMS, Ace
2. Operation: Multimachining
3. Tank capacity: 400 & 200 Ltrs
4. Filtration: Mesh Filter
5. Material: Steel
7. Component: Auto parts (Shaft, gears, casing, etc.)
8. Cycle time: ~ 120 secs
9. Existam product: XXX 3755 / XXX 361
10. Concentration: 5%
11. Daily topup Rate: 2.5%



## COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT 6080 B (Z)

## TRIAL RESULTS



Achieved required finish: Ra 0.3



Topup rate reduced to 2% (existing topup rate 2.5%)



No EHS Issues observed



No foam or mist formation



Good Flush ability



Good rust protection on machined parts



8% overall cost savings achieved