

CASE STUDY 38

(A SEMI-SYNTHETIC CUTTING COOLANT FOR MULTIPLE OPERATIONS)



CUSTOMER DETAILS :

A leading company in South India, supplying engine oil pumps, four wheeler parts and other automobile parts to major OEMs.



OBJECTIVES FOR CONDUCTING THE TRIAL

1. To achieve the required finish. Ra : 0.6~ 0.8
2. No EHS Issues - Operator & Environmental Friendly.
3. To reduce the cost of oil.



OPERATING / APPLICATION DETAILS:

1. Machine : Mazak
2. Tank Capacity : 400
3. Part : Gears & other auto parts
4. Material: Steel (95%), Al (5%)
5. Application : Multiple Operation
6. Cycle time : 1 min
7. Tool - Carbide & HSS
8. Filtration : Mesh filter & Chip conveyor
9. Conc Maintained : 4~5%
10. Sump life : 6 Months
11. Water used : DM water
12. Trial Evaluation : 2 months
13. Quackercool 7101AFH
14. Motul Safkool 6113



COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT BIO 120

TRIAL RESULTS



Achieved better than required finish. Ra-0.4



No EHS Issues observed - Operator & Environmental Friendly.



Cost saving of 10%