

CASE STUDY 53

(A VERSATILE SEMI-SYNTHETIC CUTTING COOLANT)



CUSTOMER DETAILS :

A leading company in northern india involved in manufacturing of automotive components: - gear blanks, steering components like socket ball joints, ball pins & housing, mining & construction components like conical bits, construction sleeves, hydraulics parts like piston sleeves, shafts.



OBJECTIVES FOR CONDUCTING THE TRIAL

1. Quality product with cost economics
2. No foaming, itching and smell issues
3. Extended sump life
4. Significant reduction in direct cost



OPERATING / APPLICATION DETAILS:

1. Machine: VMC and HMC (make LMW)
2. Tank capacity: 450 lts
3. Part: Gear blanks & shaft
4. Material: Steel
5. Application: Turning, facing, milling and drilling
6. Tool: Turning & grinding
7. Cycle time: 60 secs
8. Filtration: Wire mesh filtration
9. Initial loading: 400 lts water + 24 lts oil
10. Operating concentration: 4 to 6%
11. Top up ratio: 1 to 1.25 %
12. Chiller unit : Not available
13. Trial evaluation : 5 months



COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT 6080 B

TRIAL RESULTS


No foaming, smelling & itching issues


31% of direct cost saving achieved against 7101