

CASE STUDY 5

(ESTER BASED HOBBING OIL)



CUSTOMER DETAILS:

A Leading Multinational company involved in manufacturing of Helical Gearmotors & Gearboxes, Precision Inline Gear Boxes & Planetary Right Angle Gear boxes.



OBJECTIVES FOR CONDUCTING THE TRIAL

- a) To reduce iviisi
- b) To reduce stain marks on the component / Bed ways.
- c) To ensure Better Working Environment by reducing smoke.
- d) To Reduce overall Cost of oil.



OPERATING / APPLICATION DETAILS:

| Operation Hobbing | Hobbing |
|---|-----------------------|
| Machine Name | Gleason Pfauter P 600 |
| Component Name & Part No | Planetary Gear |
| Material | 20 Mn Cr 5 |
| Hardness | 200 BHN |
| Type (Helical / Spur) | Spur |
| Module of the Gear | 4.5 |
| No. of teeth | 12 |
| Coating of HOB (Futura / Ticn / TIN /Non E) | Futura Nano |
| Recoating done after Re-sharpening | Yes |
| Tank Size | 500 |
| Top up of Oil / Month | 365 Ltrs |
| Frequency of Topup | 10 days |
| Leakage of Hyd / Lube oil in the machine | No |
| Hob Changeover time | 305 seconds |
| Surface finish | 3.2 Ra |
| Chiller unit | Yes |





PRODUCT RECOMMENDED: ISOCUT E 35 (M)

TRIAL RESULTS





