

CASE STUDY 58

(A LOW VISCOSITY OIL FOR DEEP HOLE DRILLING)



CUSTOMER DETAILS :

A leading company from North India specializing in manufacturing of iron and steel forging products like connecting rod, Rocker Arm & Gear Shifter Fork and Crank shaft assemblies for automotive industries.



OBJECTIVES FOR CONDUCTING THE TRIAL

- To reduce the consumption and cost of oil.
- No EHS Issues - Operator & Environmental Friendly.



OPERATING / APPLICATION DETAILS:

- Application: Deep Hole Drilling
- Machine: Sansera In House
- No of Machines: 05
- Tank Capacity: 630 Ltrs,
- Filteration: Bag filter
- Temp of Oil: 26-30 Deg C/ Chillers installed
- Pressure: 70-80 bar (Pressure gauge installed)
- Drill Make: Gole Precision , PUNE
- Drill Dia: 5.1 mm- 6.3 mm
- Drill Depth: 72 mm- 82 mm (single shot)
- Drill Material: Carbide tip
- Tool Life: 2000 components
- Cycle time: 30 Seconds/ two components at a time
- Cleaning frequency: 4 to 5 Month
- Previous and Existing product: XXX-40
- Trial Evaluation : 6 Months



COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT N 107

TRIAL RESULTS



Achieved required Tool Life



No EHS Issues observed - Operator & Environmental Friendly.



Cost saved by Rs 5/Ltr,