



Emulsichem Lubricants Pvt. Ltd.

CASE STUDY OF METALFIN-40

Date	01/02/2005
Name of the organization	Kalyani Forge Ltd.
Address	A/P. Sanaswadi, Tal-Shirur, Dist. Pune.
M/c. no. & make for study	M/c. no. 4, Precihole
Type of operation	Gun drilling for gear component
Material removal	6 inch
Thickness of sheet	NA
Type of material	M.S.
Type & make of tools used	Sandvik
Recommended product	Metalfin-40
Date of charging coolant	17/04/2004
Dilution (water : oil)	NA
Compared with existing product.	New machine installed

OBSERVATIONS & COMMENTS

- Metalfin-40 is low viscosity oil for general-purpose neat cutting oil.
- Oil gave smooth cutting and fast cooling of components.
- Gun drilling finish very good.
- Tool life increased as compared to competitors product. Tool life increased 20-25%.
- Machine area remains clean. No foul smell. Chips easily flushed.
- On basis of these results, other 5 machines were charged with Metalfin-40.