

Emulsichem Lubricants Pvt. Ltd.

CASE STUDY OF LAVISA-9000

Date	01/12/2006
Name of the organization	Involute Technologies Pvt. Ltd.
Address	Plot No.-1-5, MIDC, Markhal, Pune
M/c. no. & make for study	Cooper-CH-4003
Type of operation	Gear Hobbing
Material removal	2 mm
Component	Shaft Drive [Exp-IT-TDRULLCA]-Super
Type of material	MS-SAE 8620 H /EN-47 Hardness-180-200 BHN
Type & make of tools used	SRP Hub-20 Teeth Pressure Angle-20°
Recommended product	LAVISA-9000
Date of charging coolant	04/06/2006
Dilution (water: oil)	1 : 20
Compared with existing product.	HP make COOLCUT-40 (Neat Type)
Cycle time	4 - 4.5 minutes

OBSERVATIONS & COMMENTS

- Excellent & effective load bearing additives provided smooth gear hobbing operation.
- Good heat carriers resulted in job remaining cool during hobbing.
- Concept of robust boundary lubrication provides innovative water solutions for hobbing operation.
- Hobb life maintained in comparison to neat type oil.
- Good anti rust & anti oxidant additives provided no rust issues for atleast two days. The jobs which were going to be idle for more than two days before further operation, were dipped in spindle oil for rust protection.
- Less top up of oil.
- Low evaporation rates even for heavy operation.
- Highly cost effective. (upto 40 to 60% savings as compared to neat type oil)