

CASE STUDY 94

(SOLUBLE OIL FOR CHAIN LINK STAMPING)



CUSTOMER DETAILS :

One of the leading manufacturers of Automotive chains based at South India.



OBJECTIVES FOR CONDUCTING THE TRIAL

1. Need to achieve the required finish – Visual finish
2. Need to achieve the die life
3. Reduction in consumption cost
4. Good Rust protection
5. No EHS Issues (No skin & eye irritation)



OPERATING / APPLICATION DETAILS:

1. Press: Sinohan
2. Operation: Stamping, chain link
3. Load: 100 ton
4. Material: Steel SAE 1050
5. Die: Carbide material
6. Sheet thickness: 1.5mm
7. Strokes per min: 45- 60s
8. Tank capacity: 400 Ltrs
9. Filtration: Magnetic roller and paper filter
10. Existing product: *** 7
11. Concentration Maintained: 5%



COMPONENT VIEW



PRODUCT RECOMMENDED: HICUT 7 EPW

TRIAL RESULTS



Achieved required finish:
Good Visual finish – No chip off



Die life increase compare to
existing 2 -5 %



No EHS Issues observed -
no foam or mist formation



Good Flush ability



Good rust protection on
machined parts



Overall cost savings
achieved -5%