

## CASE STUDY 1 0

(HIGH PERFORMANCE ESTER-BASED NEAT CUTTING OIL)



### CUSTOMER DETAILS :

A leading supplier of essential machined forgings, shafts and engine valves to leading 2 wheeler OEMs in India as well as global market.



### OBJECTIVES FOR CONDUCTING THE TRIAL

To reduce the Existing issues like Smoke, mist & cost against current oil



### OPERATING / APPLICATION DETAILS:

- a) Machine Make : Leibherr LC 350
- b) Tank capacity : 350 Ltrs
- c) Component : Shaft
- d) Material : 16 MnCr5
- e) Operation : Hobbing
- f) Hob Make : Schnyder Swiss Carbide Make
- g) Cycle time : 25 secs
- h) Filters : Magnetic
- i) Trial Period : 10-Apr-18 to 30-Jun-18



### COMPONENT VIEW



Shaft

PRODUCT RECOMMENDED: ISOCUT E 35 M AGAINST COMPETITOR PRODUCT

## TRIAL RESULTS



Hobb life found similar



Less smoke & Mist Formations as compare to earlier product.



Achieved Required finish



No rust/ stain marks observed on components



Direct cost benefit of 25 %