

CASE STUDY 11

(WATER SOLUBLE GRINDING OIL)



CUSTOMER DETAILS :

World's largest manufacturer of high precision components and bearing solutions.



OBJECTIVES FOR CONDUCTING THE TRIAL

To reduce the Existing issues like burning marks, foaming, flexibility for using grinding wheel for opposite direction against current oil

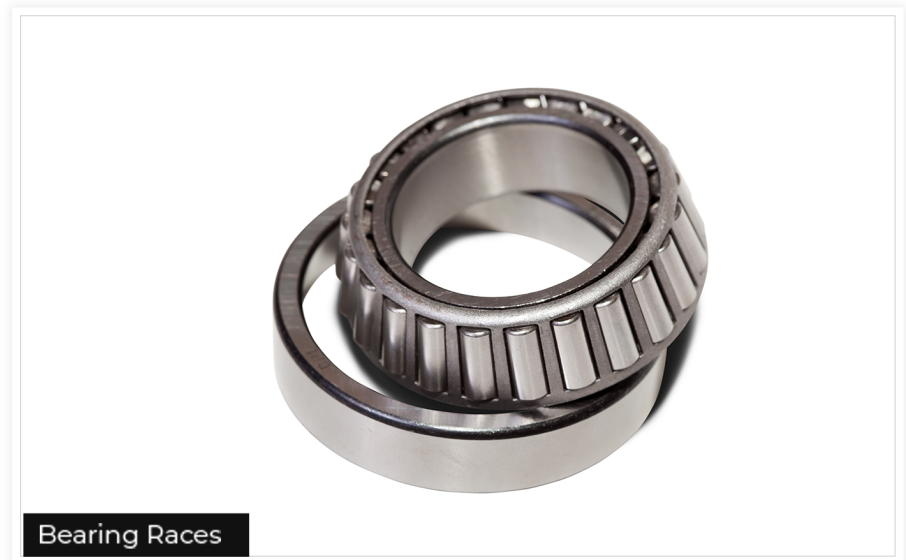


OPERATING / APPLICATION DETAILS:

- ◆ Machine Make : Face & OD tank (2 Face & 2 OD high speed machines)
- ◆ Tank capacity : 45,000 Ltrs
- ◆ Component : Bearing races
- ◆ Material : 100 Cr 6, SAE 52100
- ◆ Operation : Grinding
- ◆ Chiller Temp. : 26 deg C
- ◆ Filters : Nylon Belt
- ◆ Trial Period : Nov'17 to Oct'18



COMPONENT VIEW



PRODUCT RECOMMENDED: EMULCUT 4020 AGAINST COMPETITOR PRODUCT

TRIAL RESULTS



Avg. Top up ratio 1 % to maintain 4.3 to 4.6 % concentration



Improvement on rust protection



No foaming



No burning marks



Improvement in flushability



Flexibility for using grinding wheel for opposite direction