

# CASE STUDY 28

(INTRODUCTION OF FEROCLEAN NSF AT LEADING FASTENERS MANUFACTURER)



## CUSTOMER DETAILS :

One of the quality driven organization manufacturing a wide range of Fastener like nuts & bolts.



## OBJECTIVES FOR CONDUCTING THE TRIAL

- No EHS Issues - Operator & Environment Friendly.
- Separation of the quench oil from cleaning solution.



## OPERATING / APPLICATION DETAILS:

- Machine: Furnace San Yung
- Tank Capacity: 3000 Litres
- Part: Fastener Nuts & Bolts
- Size: Diameter – 4 to 27 mm & Length – 10 to 310 mm
- Material: 4140, 1541, 15B41, 15B21
- Application: Post washing
- Steps: (01) Post washing Spray – 5 min (02) Air blow (Normal temperature)
- Filtration: Oil Skimmer
- Initial Loading: 3000 litres water + 45 litres Cleaner
- Heating unit: Yes
- Bath Temperature: 55 °C
- Washing Stage: Spray



## COMPONENT VIEW

Before (Water Cleaning)



After (Cleaning with Feroclean N SF)



Oil Separation



PRODUCT RECOMMENDED: FEROCLEAN N SF

## TRIAL RESULTS



No EHS Issues observed - Operator & Environment Friendly



Visual Appearance: Clean and oil-free components surface observed



Excellent separation of quenching oil from cleaner solution



Uniformity: Good



No Fumes observed during tempering. (Earlier found high Fumes)