

## **CASE STUDY 3**

(LOW VOLATILITY COLD QUENCHING OIL)



#### **CUSTOMER DETAILS:**

One of the leading Heat Treaters of auto components in Rajkot.



### **OBJECTIVES FOR CONDUCTING THE TRIAL**

#### To increase:

- a) Core Hardness
- b) Reduced Oil Consumption
- c) Reduction in Cycle Time



### **OPERATING / APPLICATION DETAILS:**

a) Machine Make: Pit Type Furnace

b) Open Tank capacity: 10,000 Ltrs

c) Type of Operation: Carburising & Quenching

d) Material Grade: 4140, 20MnCr5, 42CrMo4

e) Trial Period: 3 months

f) Existing Product: Competitor Product







**PRODUCT RECOMMENDED: HIQUENCH ISX 17 LV** 

# TRIAL RESULTS



Core Hardness increased by 4 HRC



Consumption reduced by 20%



Overall Heat Treatment Cycle reduced by 20 minutes, by reduction in soaking time