



# HIGHTEMP FURNACES LIMITED

## COMMERCIAL HEAT TREATMENT DIVISION BANGALORE

Name of Document	Trial Conducted Conventional Tempering
Type of Document	Heat Treat Inspection Report
Issue Date	15/06/2010
Issued By:(Name, Phone)	
Approved By:(Name, Phone)	Mr.PRATAP GHORPADE

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Customer		Part Name	Rear Axle Shaft
Material	1541B	Part Number	
Process	HARDENING & TEMPERIN	Comments	Trial Conducted Conventional Tempering
Charge Number / Furnace		Serial No. / I.R.No.	
Component weight per Pc.		Processed Qty.	1 No.

Surface Hardness Specification: 50 ~ 58 HRC	CONVENTIONAL TEMPERED AT 180°C For 2Hrs.				
	Surface Hardness Results (HRC)				
	54	55	54	55	
Core Hardness Specification: NA (Check For Reference Only)	Core Hardness Results (HRC)				
	19	20			

### MICROSTRUCTURE AT 200X



Customer		Part Name	Rear Axle Shaft
Material	40Cr4B	Part Number	
Process	HARDENING & TEMPERIN	Comments	Trial Conducted Conventional
Charge Number / Furnace		Serial No. / I.R.No.	
Component weight per Pc.		Processed Qty.	1 No.

Surface Hardness Specification: 50 ~ 58 HRC	CONVENTIONAL TEMPERED AT 180°C For 2Hrs.				
	Surface Hardness Results (HRC)				
	53	53	53	53	
Core Hardness Specification: NA (Check For Reference Only)	Core Hardness Results (HRC)				
	20	20			

### MICROSTRUCTURE AT 200X



DISPOSITION :	QA	PREPARED BY: [Redacted]
ISSUE DATE: 15/06/2010		APPROVED BY: PRATAP GHORPADE