



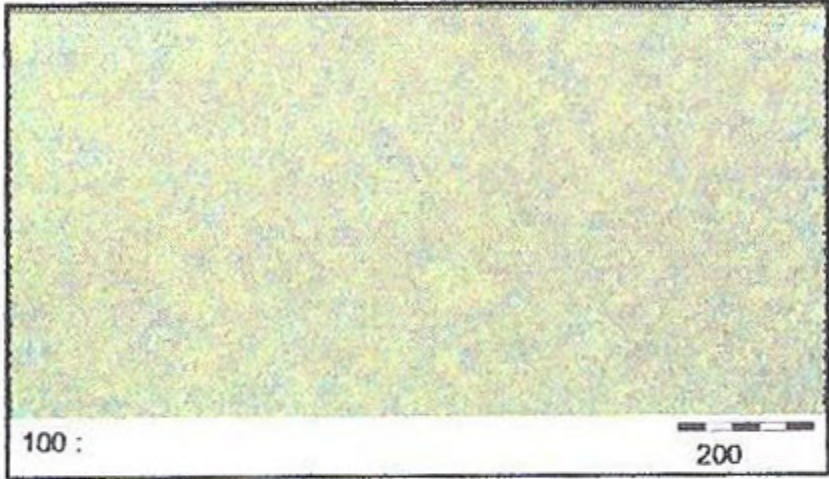

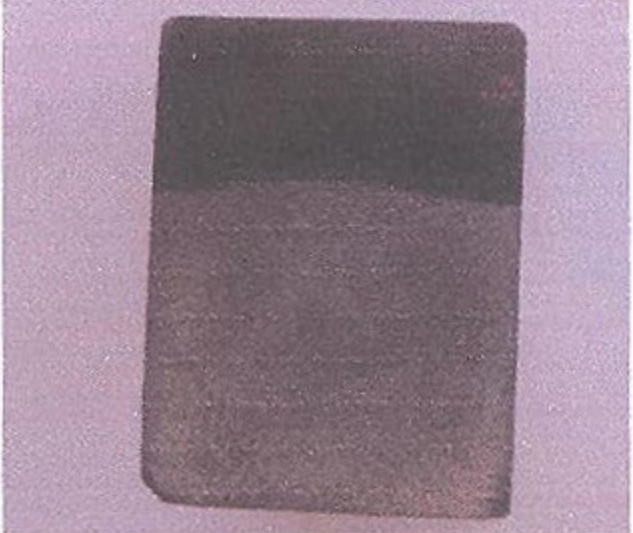
**METALLURGY LABORATORY  
IMAGE ANALYSIS REPORT AND  
HARDNESS REPORT**

Condition: After Tempering

Material: C-45

Batch Code:

**OBSERVATIONS OF SAMPLE**

PARAMETER	SPECIFICATIONS	OBSERVATIONS	REMARK
<b>MICRSTRUCTURE REQUIREMENTS</b>			
<b>MICRSTRUCTURE AT CASE</b>	FINE TEMPERED MARTENSITE		TEMPERED MARTENSITE STRUCTURE OBSERVED
<b>MICRSTRUCTURE AT CORE</b>	FERRITE & PEARLITE		UNIFORMLY DISTRIBUTED FERRITE & PEARLITE STRUCTURE OBSERVED. GRAIN SIZE 8-8.5
<b>INDUCTION HARDENING PATTERN</b>			

**HARDNESS OBSERVATIONS-**

PARAMETER	SPECIFICATIONS	OBSERVATIONS HRC		REMARK
		E Sides	NE Sides	
AT PCD	45 ~ 55 HRC ON BOTH SIDES	52	53	OK
1.0-2.0 MM Below Root	45 ~ 55 HRC ON BOTH SIDES	53	53	OK
4.0 MM Below Root	40 HRC MAX ON BOTH SIDES	22	20	OK

Checked By

