

CASE DEPTH SURVEY REPORT

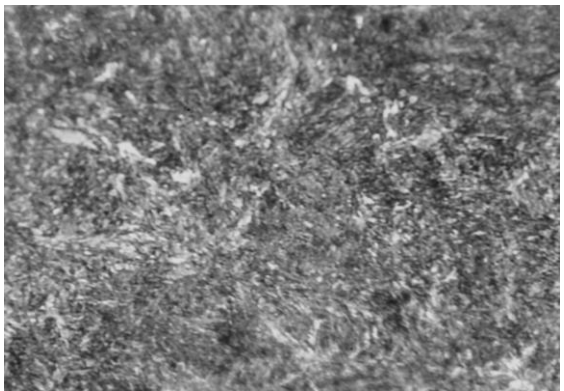
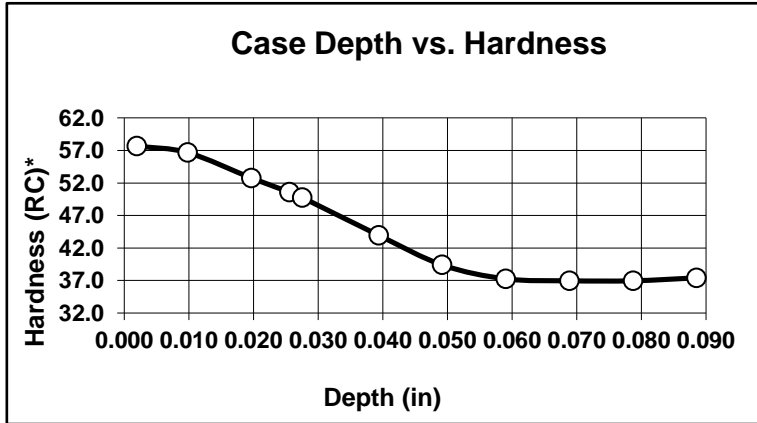


Date Run: March 16, 2011 Client: xxxxx P.O No: 3380-646/649 Thermex Job No: 119xxx Material: AISI 8620 Sample No: 118 Case Aim: 0.020-0.030" DP Eff., 56HRC Min Process: Gas Carburizing	Test Method: Vickers Load on Indenter: 500g Calibration Test Block S/N: 7442 Cal. Block Range: 489-529 HV Calibration: 511/504 HV Tester Name: Buehler Tester Model: Micromet 2003 Tester S/N: MX7090X
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Depth (mm)	Depth (in)	HV ₅₀₀	HRC by Conversion*
0.050	0.002	645	57.7
0.250	0.010	626	56.7
0.500	0.020	557	52.8
0.650	0.026	523	50.6
0.700	0.028	511	49.7
1.000	0.039	435	43.9
1.250	0.049	385	39.4
1.500	0.059	364	37.2
1.750	0.069	361	36.9
2.000	0.079	361	36.9
2.250	0.089	365	37.4
Location			HRC
Mid Wall			32.5-35.0
Web Core			43.5-44.0
Web Surface			45.0-47.0

Comments: The part was made of AISI 8620. The effective case depth is about 0.650 mm (0.026"). The total case depth is about 1.000 mm (0.039"). Retained austenite at the part surface is less than 20%. The report represents drawing..

*as per ASTM E140



**TEMPERED MARTENSITIC
MICROSTRUCTURE OF CASE**