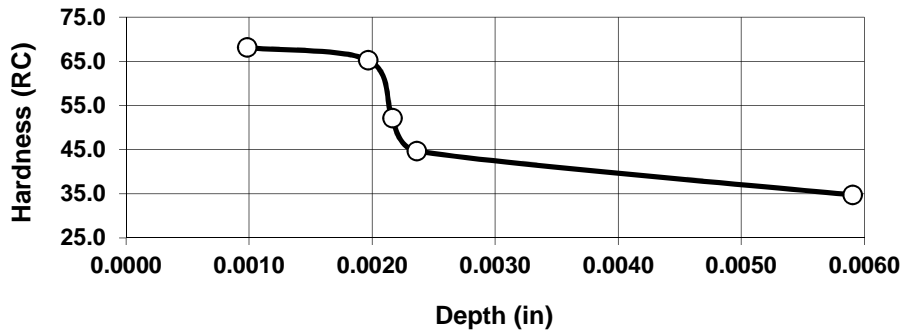


**CASE DEPTH SURVEY REPORT**

Date Run: <b>November 17, 2016</b> Client: <b>XXX</b> P.O No: <b>XXX</b> Thermex Job No: <b>170XXX</b> Material: <b>PH 17-4 (AISI 630)</b> Sample No: <b>170XXX</b> Case Aim: <b>as per HT-1003 Rev.A</b> Process: <b>Liquid Nitro-Carb. (QPQ)</b>	Test Method: <b>ASTM E384/Vickers</b> Load on Indenter: <b>200g</b> Cal. Test Block S/N: <b>12298</b> Cal. Block Range: <b>507±19.7 HV</b> Calibration: <b>499/511/503 HV</b> Tester Name: <b>Buehler</b> Tester Model: <b>Micromet 2003</b> Tester S/N: <b>MX7090X</b>
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Depth (mm)	Depth (in)	HV <sub>200</sub>	HRC as per ASTM E140
0.025	0.0010	956	68.1
0.050	0.0020	837	65.2
0.055	0.0022	547	52.1
0.060	0.0024	444	44.7
0.150	0.0059	341	34.7
<b>Core</b>			
	<b>Micro (HV)</b>	341	34.7
		340	34.6
	<b>Macro (HRC)</b>		32.0
			33.0

**Case Depth vs. Hardness**



**Comments:** The test coupon was made of PH 17-4 (AISI 630). The effective case depth is about 0.055 mm (0.0022"). Coupon heat #423227.

TESTED BY: \_\_\_\_\_  
**P.Petkov**

Date Tested: **November 3, 2016**