

## METALLURGICAL LABORATORY SCOPE

### Harrison Steel Castings Company

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Attica, IN 47918-0060

Phone: 765-762-2481

### Testing Capabilities

<u>Test Title</u>	<u>ASTM Test Method Designation</u>
<b>MECHANICAL:</b>	
Tensile	ASTM A 370
Tension Metallic Materials	ASTM E 8
Bend	ASTM A 370
Guided Bend Weld Test	ASTM A 488
Hardness Conversions	ASTM A 370
	ASTM E 140
Rockwell Hardness	ASTM E 18, (B, & C)
Brinell Hardness	ASTM E 10
Portable Brinell	ASTM E 110
Charpy impact	ASTM E 23
Hardenability	ASTM A 255
<b>METALLOGRAPHIC:</b>	
Sample preparation	ASTM E 3
Graphite microstructure	ASTM A 247
Inclusion content	ASTM E 45
Grain Size	ASTM E 112
Macroetching	ASTM E 340
and	ASTM E 381
Depth of decarburization	ASTM E 1077
<b>CHEMICAL:</b>	
Optical emission spectroscopy	
Carbon and low alloy steel	ASTM E415
Stainless steel	ASTM E1086
Iron	ASTM E485
Leco combustion (C, N, O)	ASTM E1019

*Note: Harrison Steel reserves the right to contract with outside laboratories for testing. These outside laboratories that perform such contract work are evaluated using ASTM E1595 as an audit guideline.*