



Lehigh Testing Laboratories, Inc.

A Subsidiary of THE MMR GROUP, INC.

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TEST REPORT

NATIONAL TRANSPORTATION SAFETY BOARD
ATTENTION: FRANK ZAKAR
490 L'ENFANT PLAZA EAST
WASHINGTON, DC 20594

DATE: September 19, 2014

PO NO: **VERBAL**

LEHIGH NO: **R-34-30**

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MATERIAL: GRAY CAST IRON
SAMPLE DESIGNATION: (1) SAMPLE: APPROX. 6" X 6" X 5/8" THICK SECTION
FROM 13.5" OD PIPE


CHEMICAL ANALYSIS (%)

Carbon	3.32
Sulfur	0.073
Silicon	1.68
Manganese	0.40
Phosphorus	1.46
Chromium	0.01
Nickel	0.02
Copper	0.08
Molybdenum	<0.01
Vanadium	0.07
Boron	<0.0006
Iron	Balance
Magnesium	0.02
Titanium	0.12
Cobalt	0.03
Arsenic	0.017

Results are for information only.

Procedure: *QA-CH-P-048 Rev 1 (Leco C&S)*
QA-CH-P-124 Rev 1 (ICP)

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Peter M. Engelgau, Principal Chemist