NATIONAL TRANSPORTATION SAFETY BOARD

Office of Research and Engineering Materials Laboratory Division Washington, D.C. 20594

May 16, 2011

MATERIALS LABORATORY FACTUAL REPORT

A. ACCIDENT INFORMATION

Place	: San Bruno, California
Date	: September 9, 2010
Vehicle	: Pacific Gas & Electric Natural Gas Transmission Pipeline
NTSB No.	: DCA10MP008
Investigator	: Ravindra Chhatre, RPH-20

B. COMPONENTS EXAMINED

One 6-foot 10.12-inch long section of 30-inch diameter pipe from Line 132, Section 180, 881 Glenview Drive, San Bruno, California.

C. DETAILS OF THE EXAMINATION

This report contains an external mechanical testing report for lengths of pipe A1, A2, and A3, which comprised the above referenced section of pipe. The data are referred to in Materials Laboratory Report 11-049 and Materials Laboratory Report 11-058.

Donald Kramer Materials Engineer

OLAN SPORT

Report No. 11-059



A DIVISION OF J.T. ADAMS CO., INC.

4520 WILLOW PARKWAY CLEVELAND, OHIO 44125 PHONE (216) 641-3290 FAX (216) 641-1223 www.tensile.com

 	-CERTIFIED	TEST		
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National Transportation Safety 490 L'enfant Plaza SW Washington DC 20594 Job No.: B1-104-372 Date: 5-4-11 Cust. PO#: Verbal – D. Kramer

Description: 3 samples Tube Sections

----- TEST RESULTS

Center				Yiel		
ID	<u>Width, in.</u>	<u>Thickness, in.</u>	<u>Tensile, ksi</u>	<u>.2%</u>	<u>.5% EUL</u>	<u>Elong., % in 2"</u>
A1-1	1.501	0.368	74.5	49.5	51.5	33
-2	1.502	0.368	74.0	48.3	50.0	35
-3	1.500	0.370	73.5	48.6	47.8	35
A2-1	1.500	0.373	80.5	53.5	52.0	32
-2	1.498	0.373	80.0	52.0	50.0	32
-3	1.499	0.373	80.5	52.5	51.0	32
A3-1	1.500	0.376	82.0	51.0	51.0	29
-2	1.500	0.377	82.0	51.5	50.5	31
-3	1.499	0.376	82.5	55.0	52.5	31

Test Method: ASTM A370-10, Transverse

Width at Ends = Center Width + .002"

(See Attached Charts)

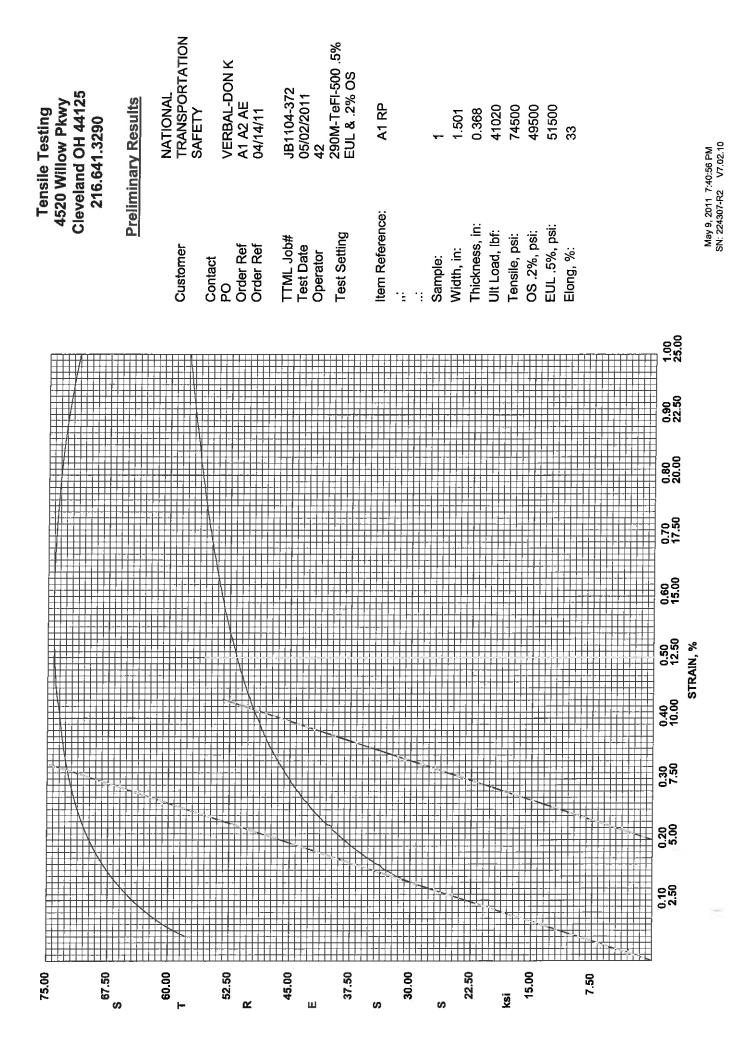
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	Authorized Agent	

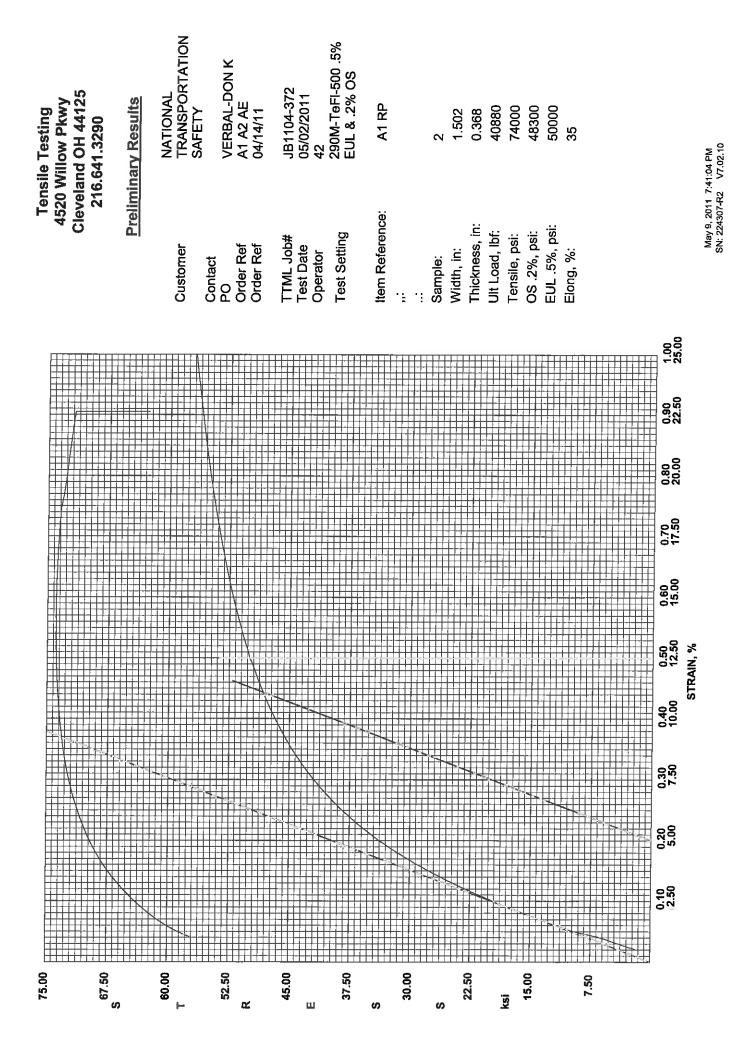


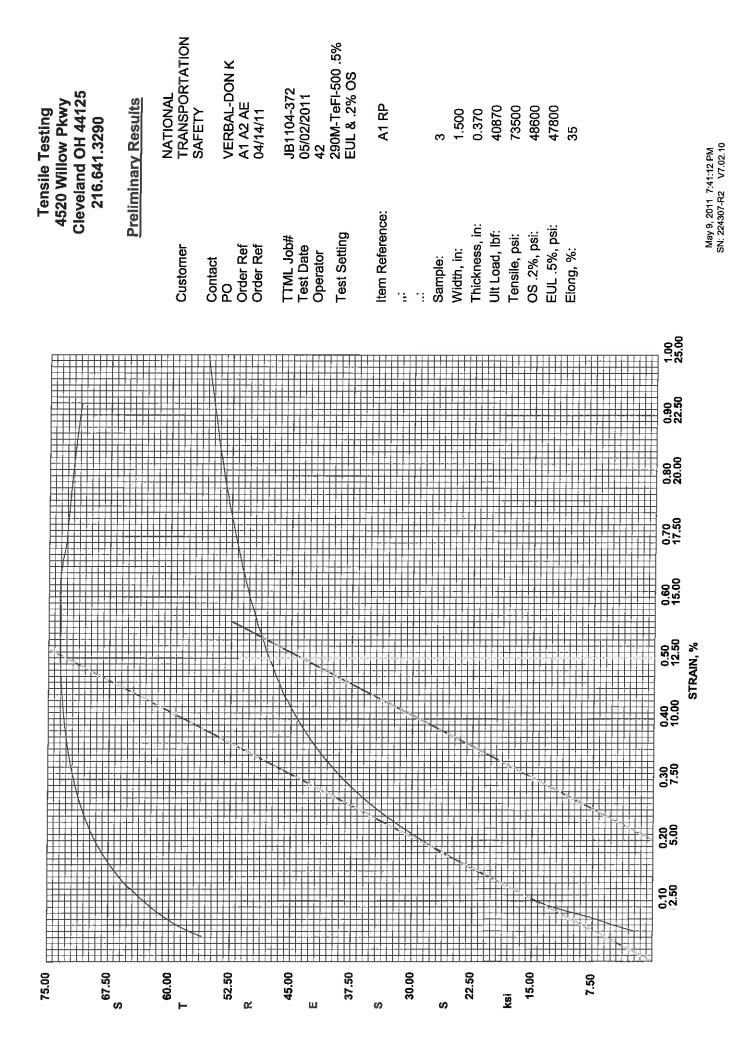
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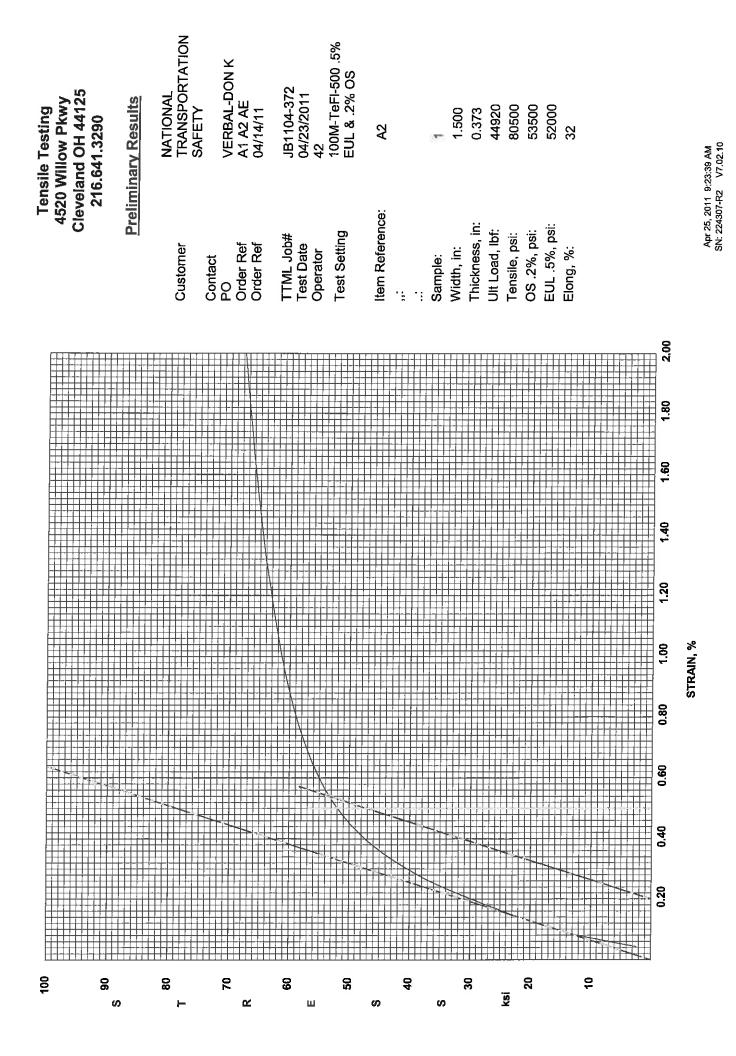
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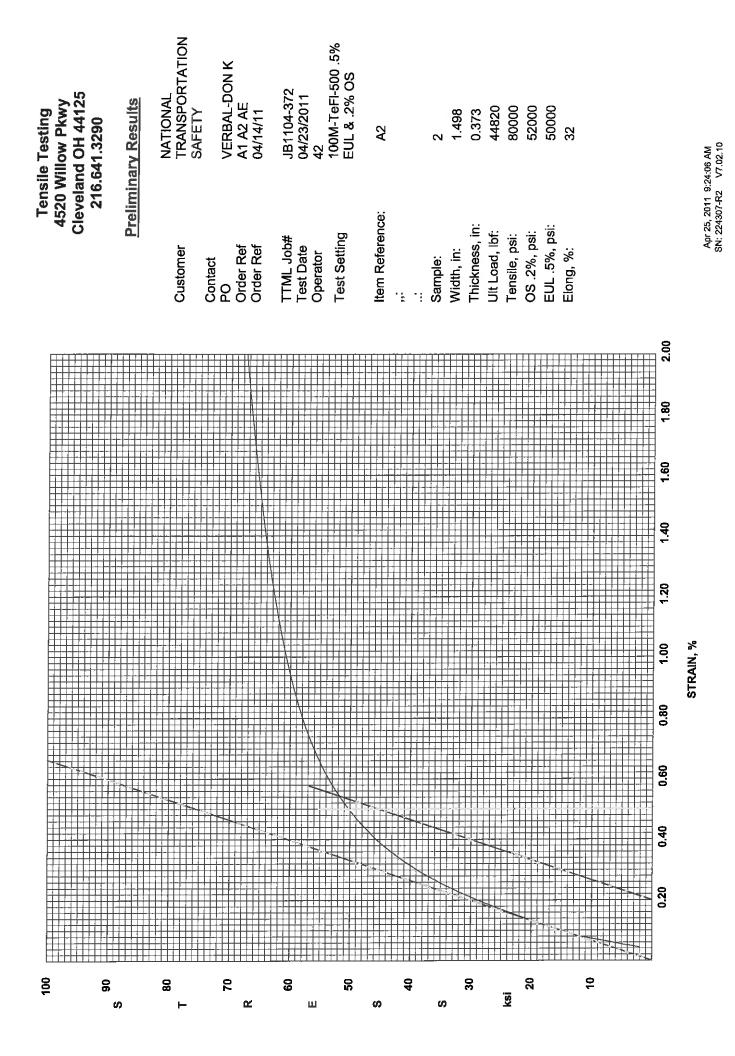
This report represents Tensile Testing interpretation of the results obtained from the test and is not to be construed as a Guaranty or Warranty of the condition of the materials tested. Tensile Testing shall not be held liable for misinterpretation of conditions, loss, damage, injury or death arising from or attributable to delay preceding a test or subsequent to performance of a test.

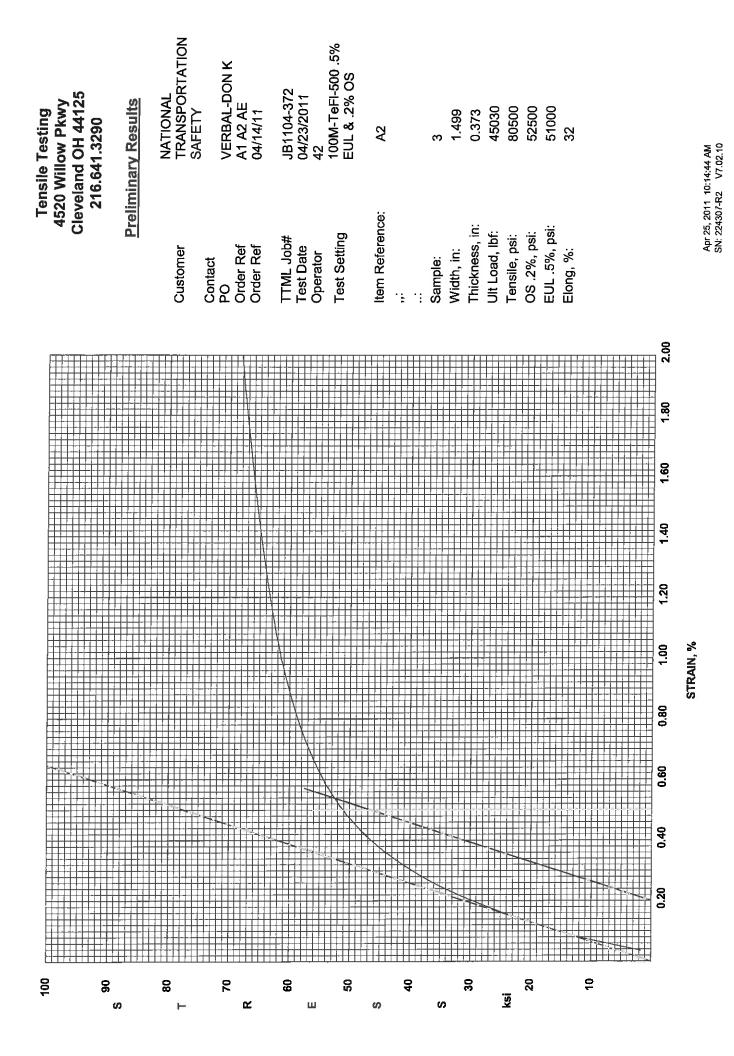


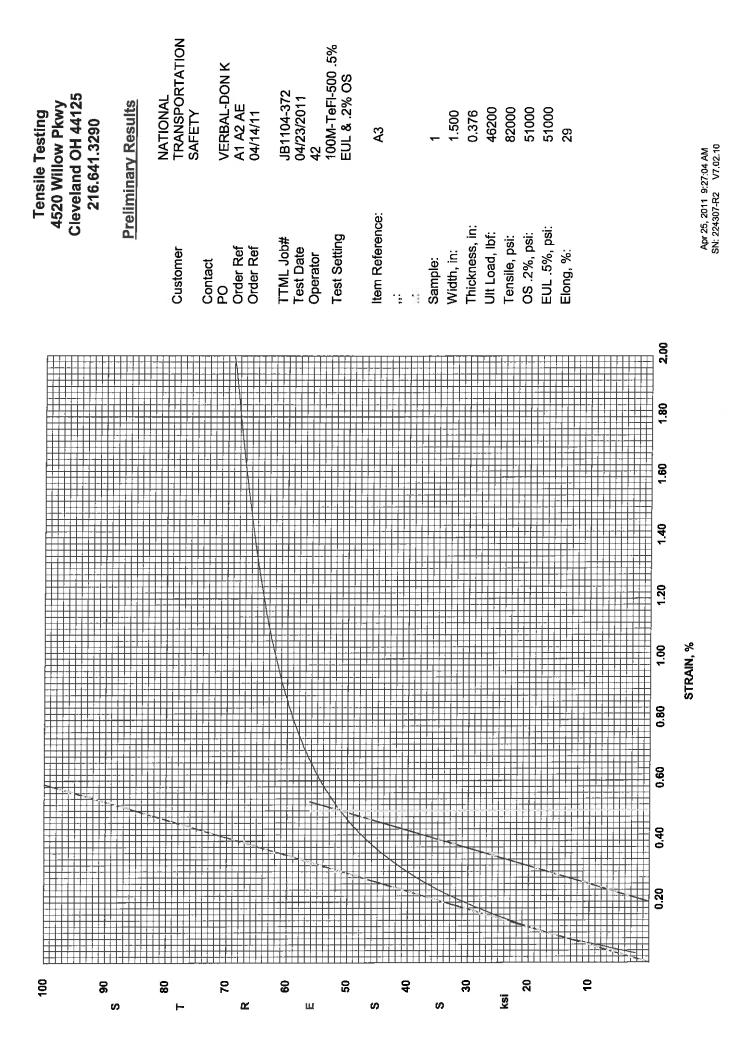


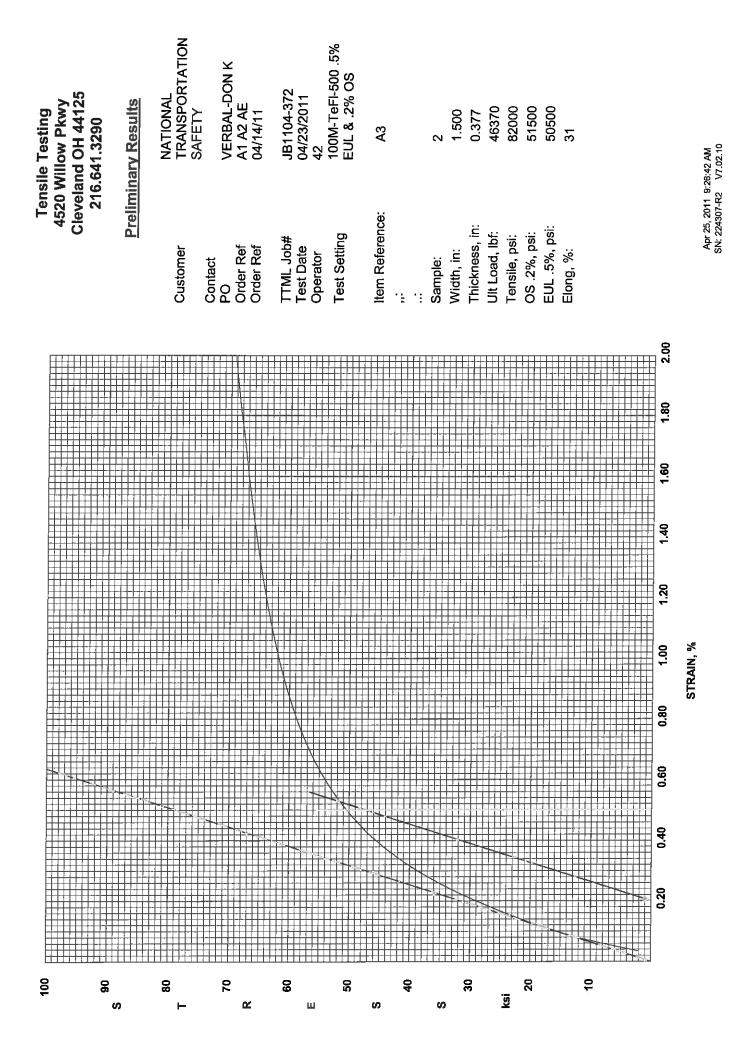


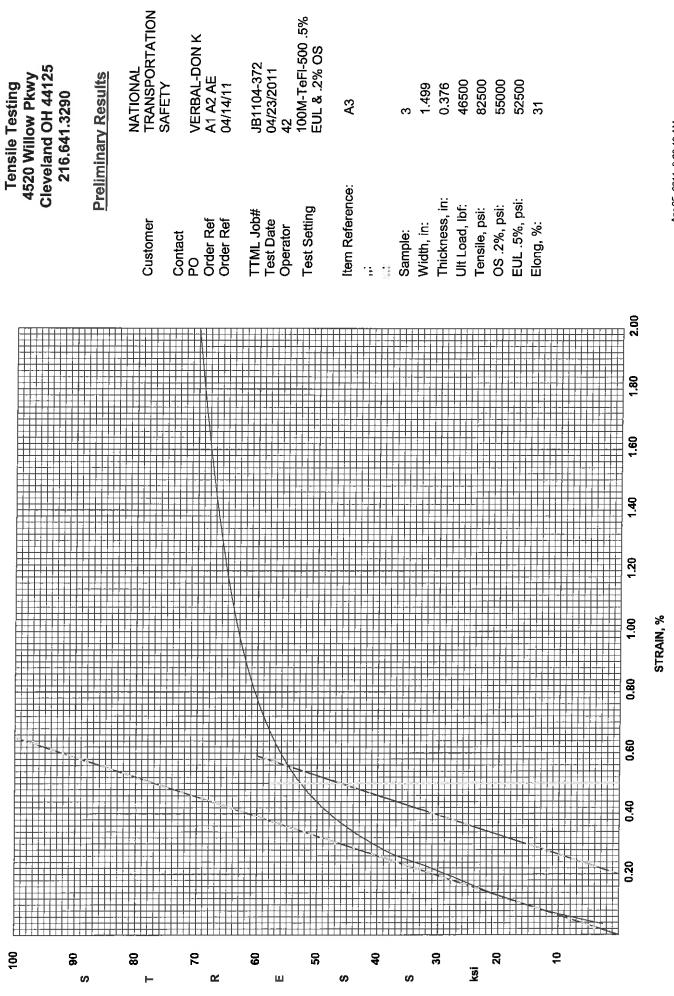












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