

METALTEST, INC.  
1205 5th Avenue South  
Kent, Washington 98032  
Phone (253) 813-5970 Fax (253) 813-5971  
(800) 200-1376

10/03/2013

Technologies Green Partners  
6223 Cromwell Drive NW  
Gig Harbor, WA 98335

LAB 151099  
PO Lab Work Request Form  
MATL A356-T6 Aluminum  
SPEC N/A  
TEST METHOD ASTM E8/E8M-09 - Tensile Test  
SIZE

Attn: Charlie Rau

**TEST REPORT**

Page 2 of 4

Identification

|      |                        |
|------|------------------------|
| ID:  | 2                      |
| Qty: | 1 Pre-Machined Tensile |


Tensile Test Results

| Specimen Identification | Yield (ksi) | Tensile (ksi) | Elongation (%) |
|-------------------------|-------------|---------------|----------------|
| 151099-2                | 37.7        | 41.9          | 6.4            |
| Min. Req.               |             |               |                |
| Max. Req.               |             |               |                |

Notes: Yield strength determined at 0.2% offset;  
Elongation measured in 4D gauge length.  
Specimen: Pre-Machined Tensile

Acceptance criteria not specified, results reported for customer information.

Respectfully,

  
Wayne Langley  
Lab Manager

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF METALTEST, INC. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

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Page 1 of 4

Identification

|      |                        |
|------|------------------------|
| ID:  | 1                      |
| Qty: | 1 Pre-Machined Tensile |

Tensile Test Results

| Specimen Identification | Yield (ksi) | Tensile (ksi) | Elongation (%) |
|-------------------------|-------------|---------------|----------------|
| 151099-1                | 38.0        | 42.4          | 7.1            |
| Min. Req.               |             |               |                |
| Max. Req.               |             |               |                |

Notes: Yield strength determined at 0.2% offset;  
Elongation measured in 4D gauge length.  
Specimen: Pre-Machined Tensile

Acceptance criteria not specified, results reported for customer information.

cn=Wayne Langley,  
o=Metaltest Inc.,  
ou=Lab Manager,  
email=wayne@metalte  
st-inc.com, c=US  
2012.02.28 14:19:38  
-08'00'

Respectfully,

Wayne Langley  
Lab Manager

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# NORTHWEST LABORATORIES *of Seattle, Incorporated*

ESTABLISHED 1896

Technical Services for: Industry, commerce, Legal Profession & Insurance Industry

241 South Holden Street • Seattle, WA 98108-4359 • Phone: (206) 763-6252 • Fax: (206) 763-3949 www.nwlab1896.com

Report To: Technologies Green Partners  
Attention: Charles Rau III

Date: October 8, 2013

Report On: Aluminum

Lab No. E85382-2

**IDENTIFICATION:** #1: 200-0  
#2: A356.2 - T6

**TEST PROCEDURE:** Test Per ASTM A370-09ae1  
\*Specimens machined by others

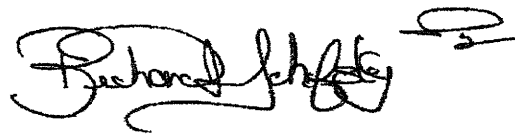
## **TENSILE TEST RESULTS:**

|   | <u>#1</u> | <u>#2</u> |
|---|-----------|-----------|
| Diameter (in.)                          | 0.349     | 0.354     |
| Area (in. sq.)                          | 0.096     | 0.098     |
| Yield Strength (lbs.), 0.005 in./in EUL | 580       | 1,250     |
| Yield strength (psi)                    | 6,100     | 12,700    |
| Ultimate Load (lbs.)                    | 2,080     | 4,220     |
| Tensile Strength (psi)                  | 21,700    | 42,900    |
| Elongation in 1 (in.)                   | 0.03      | 0.26      |
| Elongation (%)                          | 3.0       | 6.0       |

This report applies only to the actual samples tested. Northwest Laboratories does not certify, warrant, or guarantee any products manufactured by others. Samples will be discarded within **thirty (30) days** unless otherwise requested in writing by you.

NORTHWEST LABORATORIES, INC.

  
Richard J. Schefsky  
Engineer



Richard J. Schefsky II, Technical Manager

nbe

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Report To: Technologies Green Partners  
Attention: Charles Rau III

Date: October 8, 2013

Report On: Aluminum

Lab No. E85382-3

**IDENTIFICATION:** #1: A206 - T7

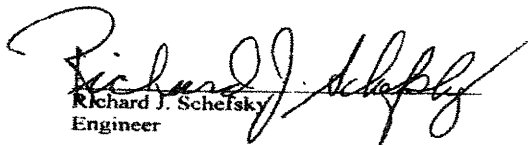
**TEST PROCEDURE:** Test Per ASTM A370-09ae1  
\*Specimens machined by others

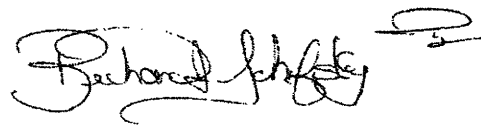
## **TENSILE TEST RESULTS:**

|   | #1     |
|---|--------|
| Diameter (in.)                          | 0.356  |
| Area (in. sq.)                          | 0.100  |
| Yield Strength (lbs.), 0.005 in./in EUL | 3,620  |
| Yield strength (psi)                    | 36,400 |
| Ultimate Load (lbs.)                    | 7,110  |
| Tensile Strength (psi)                  | 71,400 |
| Elongation in 1 (in.)                   | 0.21   |
| Elongation (%)                          | 21.0   |

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NORTHWEST LABORATORIES, INC.

  
Richard J. Schefsky  
Engineer



Richard J. Schefsky II, Technical Manager

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