



NATIONAL TESTING STANDARDS INC.
RESEARCH AND TESTING LABORATORIES

Report No. 29952-2

December 17, 2008

Client: Jensen Swing Products, Inc.
9327 Wheatlands Rd.
Santee, CA 92071

Reference: Charvet Vecchio
Letter of 11/05/08

Subject: Lead Content of Plates & Triangles.

Sample Description:

One sheet of stamped metal was submitted by the Client and identified as a steel swing insert.

Request:

Analyze the submitted insert and identify the type of steel.

Method:

The submitted metal sheet was analyzed by standard emission spectrographic procedures.

Results:

| <u>Element</u> | <u>Value (%)</u> |
|----------------|------------------|
| C | 0.47 |
| Mn | 0.67 |
| P | 0.011 |
| S | 0.009 |
| Si | 0.23 |
| Cu | 0.02 |
| Ni | 0.01 |
| Cr | 0.08 |
| Mo | 0.02 |
| Fe | remainder |

Continued. . .

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December 17, 2008

Page 2

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Conclusion:


This analysis corresponds to an alloy type 1045.

Comments:

The carbon content of alloy 1045 is 35% to 40 % lower than the carbon content for alloy 1075.

This difference is significant for certain physical properties such as tensile strength, tear resistance and hardness.

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by Lewis F. West