



**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

S100 S103 S118 S107

Reference: Charvet Vecchio  
Letter of 1/1/05/08

S130 S150 S165

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

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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