TEST REPORT

LAKE ERIE PRODUCTS
CUSTOM ENGINEERED FASTENERS
A RBMas Company

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Date: 05-02-06

Certification: 148556*1*1

Cust PO: SL11497

Lot Nbr: 517904

Quantity: 7587 Pieces
Mfg Date: 05-02-06

St. Louis Screw & Bolt
PO Box 470037
6900 North Broadway
ST. LOUIS, MO 63147

PART INFORMATION

Part Number: AQA087200
Description: 7/8-9 X 2 A325-3
Finish: PLAIN
THREAD TO HEAD

Head marking: A325 TYPE 3- BAR 1 DOT SL

RAW MATERIAL ANALYSIS

Steel Heat Nbr: CR405900
Steel Supplier: Charter Steel

Steel Grade: A325 TYPE 3 CLASS

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn
0.3600	0.9800	0.0160	0.0120	0.2400	0.3300	0.5100	0.0100	0.3200	0.0090
V	Al	N	B						
0.0010	0.0240	0.0080	0.0001						

MECHANICAL PROPERTIES

Wedge Angle: 0 Test Performed	High	Low	Average	Samples
Superficial R30N	52.0	48.0	49.4	8
Core Hardness, HRC	31.0	28.0	29.4	8

Certification test results include those reported by the following laboratories:
Chartex Steel, A2LA, 10-31-07
Lake Erie Products - Fkft Lab, A2LA 0122.02, 05-31-06

Applicable Standards, Specifications, and Sampling Schemes:

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THE FOLLOWING STATEMENTS APPLY TO:
ASTM A-325-04b, TYPE 1 and TYPE 3 BOLTS
ASTM A-490-04a, TYPE 1 and TYPE 3 BOLTS
Test Methods are in accordance with ASTM F606-05.
Thread Fit and Dimensional Properties are compliant to ASTM B18.2.6.
These bolts passed inspection for surface discontinuities, per ASTM F788.
These bolts were not produced from heats in which Bismuth, Selenium, Tellurium, or Lead was intentionally added.
These bolts were not exposed to Mercury or any other metal alloy that is liquid at ambient temp during processing or while in our possession.
Material is of U.S. origin, and was melted and manufactured in the U.S.A.

THE FOLLOWING STATEMENTS APPLY TO:

We certify: The product furnished by Lake Erie Products was manufactured, sampled, tested, and inspected in accordance with the standards and specifications listed above and with Lake Erie Products Quality Manual in effect as of the date of manufacture. The above data accurately represents values provided by Lake Erie Products suppliers and/or values generated in one of Lake Erie Products A2LA accredited laboratories. Statistical process control data is on file.

This test report relates only to the samples tested above. This document may only be reproduced unaltered and may not be used for any purpose other than the purpose of certifying the same or lesser quantity of the product specified herein. Reproduction, alteration or use of this document for any other purpose is prohibited. Except as expressly provided in this certification, Lake Erie Products makes no (and disclaims all) representations, warranties and guarantees whatsoever, whether express, implied or statutory including, without limitation, any warranty of merchantability or fitness for a particular purpose.

Lake Erie Products
Gerald E. Simone
Quality Manager

CERT #0122-01 / #0122-02
"MECHANICAL FIELD OF TESTING"