

Materials Technology

Stork MMA Testing Laboratories

Material Testing and Non-Destructive Testing

Spencer Industries, Inc.

80 Holmes St. 2 Pheasant Run Newtown, PA. 18940 PO Box 128 USA

BELLEVILLE, NJ 07109

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W/O NO.: SPE005-07-07-80460-1 Rev 1

Website

:www.storksmt.com/mma

CERTIFICATION OF TESTING — EAR-CONTROLLED DATA ALL TESTING PERFORMED IN A MERCURY-FREE ENVIRONMENT

Corrected certification 7/13/11

PART NUMBER DESCRIPTION SPECIFICATION 5749613-143

½-13 x 2 3/8 HHCS Coated with Armorgaly thermal diffusion process*

SAE-J429 Jan 99 Gr. 8

Stress Durability Results

Tested in accordance with NASM1312 #5

Five fasteners were assembled into a fixture and loaded to a torque value of 71 foot-lbs. This value is approx. 80% of the rated tensile strength of the fasteners. The test samples were maintained for 48 hours to allow for possible hydrogen embrittlement. After the 48 hour period, the samples were removed from the fixture and tested by fluorescent magnetic particle inspection to detect any cracks or linear indications. The results of this inspection show that there were no cracks, linear indications, and/or evidence of hydrogen embrittlement. NDT test reports on file. NDT tests were performed in accordance with applicable specifications.

Tested samples do conform to specification requirements.

Formula for obtaining torque values, T = KDLT= torque K= friction factor D= dia L= 80% min tensile load Torque = $.1 \times .5 \times 17,040 = 852 \text{ in-lbs} \div 12 = 71 \text{ ft-lbs}$

"K" Determined per IFI 7TH Ed., Technical Data N-68 using MIL-T-5544 Anti-Seize Lubricant.

Pass

Five tests listed on this certification have been performed in accordance with SAE-J429 Jan 99 Gr. 8 and all tested samples do conform to the specification requirements.

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Respectfully submitted

Ilene Landis

Quality Administrator

The analysis reported on this certification has been performed in accordance with Stork Quality Manual 4th Edition Rev. 0 Dated 06/02/2011 and related procedures. The samples tested or inspected on this Certification are Certified only for the testing performed. The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under federal statutes

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