



12570 Knott Street
Garden Grove, CA 92841
A PCC Company

Certification of Chemical and Physical Test

705907

Products identified on this certificate have been manufactured, tested and inspected in accordance with, and unless otherwise noted below, conform in all respects to the applicable drawings, specifications and/or standards.

Country of Origin USA

| | | | | | | | |
|--|-----------|---|-----|---|-----------|-----------------------------------|-------|
| Customer M & M AEROSPACE HARDWARE | | 0056100 | | Date of Certification 9/25/2008 | | Purchase Order Date: 5/15/2006 | |
| Purchase Order OE4460 | | Part Number HL11VF5-4 | | Revision 45 | | Packing Slip No. 000000000189062 | |
| Customer Part Number | | Mfg. Date N/A | | Lot Size 27,200 | | Quantity Shipped 25,790 | |
| Procurement Specification HS342, REV AG | | Heat Treatment Specification AMS-H-81200 | | Prod Order/Lot Number T201527 | | | |
| Finish Specification HS306, TY I, COLOR BLUE - ACCURATE ANODIZE | | Lubrication Specification HS305 | | | | | |
| Non-destructive Testing Specification ASTM E1417 | | | | Sample or 100% SAMPLE | | | |
| Material 6-4 Ti | | Material Specification AMS4928 | | Heat No. 04386DB | | Supplier TIMET, USA | |
| C | .021 | Mn | | P | | S | |
| Si | | Ni | | Cr | | Mo | |
| Va | 3.92 | Ti | BAL | Al | 6.22 | N2 | .008 |
| Fe | | .18 | | Co | | Cu | |
| Mg | | Ca | | Pb | | Bi | |
| Se | | Sn | | Y | .0009 | H2 | .0064 |
| Ta | | | | | | | |
| Micro/Macro Structure Satisfactory | | Decarburization NIL | | Discontinuities Acceptable | | Hardness No Rc | |
| CONFORMS | | Work Effect Satisfactory | | Grain Flow (Hd, Hnd) Satisfactory | | Finish Part H2 ppm 84.5 PPM | |
| Double Shear Strength | | Ultimate Tensile Strength | | Tension-Tension Fatigue | | | |
| Pounds Results TOO SHORT | | Pounds Location of Failure TOO SHORT | | Life Cycles Location of Failure TOO SHORT | | | |
| Min. Req. | TOO SHORT | Max. Req. | NR | Min. Req. | TOO SHORT | Max. Req. | NR |
| Ka | NR | X1-KaS | NR | Ka | NR | X1-KaS | NR |
| Stress Rupture | | Torque Testing | | Stress Durability | | | |
| Temp: Load: Time: | | Sample Size: Torque | | Sample Size: Torque _____ Sustained Load | | | |
| Hours | | No failures. | | Time: Hours | | | |
| No failures. | | | | NDT Results - Satisfactory | | | |

10 MICROS - SATISFACTORY

THREADS WERE INSPECTED PER AS8879

Type of Part:

"THE PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH TSO-C148. THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL OF THIS ARTICLE ARE MINIMUM PERFORMANCE STANDARDS. AIRCRAFT FASTENERS APPROVED UNDER THIS TSO ARE NOT NECESSARILY INTERCHANGEABLE WITH OTHER AIRCRAFT FASTENERS APPROVED UNDER THIS TSO. FASTENERS OF SIMILAR DIMENSIONAL PROPERTIES MAY HAVE WIDELY VARYING PERFORMANCE AND METALLURGICAL PROPERTIES. SUBSTITUTION OF PARTS MAY ONLY BE DONE IF ACCEPTABLE TO OR APPROVED BY THE ADMINISTRATOR."

Allison Palmer, Certification Clerk



P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.KLXAerospace.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

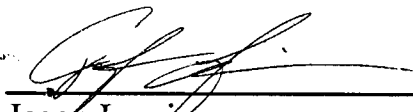
Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to KLX Aerospace Solutions.

FIRM: AJ WALTER AVIATION LTD

PURCHASE ORDER#: CP15797

| QUANTITY U/M PART-NUMBER | CUST REF# | LOT-NUMBER | Eff Date | EXP DATE |
|--------------------------|-----------|------------|----------|----------|
| 30 EA HL11VF5-4 | | T201527 | | |


Jason Lewis
Senior Director, Global Quality

03/23/16

Inv # 03/23/16