



12570 Knott Street
Garden Grove, CA 92841

Certification of Chemical and Physical Test

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, specification and/or standards.



1241701

Country of Origin: USA

Purchase Order Date: 8/4/2016

Materials Testing Laboratory
Non-Destructive Testing

Customer KLX Inc.		0071400		Date of Certification 2/16/2017		Packing Slip No. 00000000531846	
Address 9835 NW 14th ST MIAMI, FL, 33172-2756 USA							
Purchase Order 003NF75		Part Number BACB30VU5K3		Revision REV AG		Prod Order/ Lot Number UD839124	
Customer Part Number HST11AG5-3 REV 29		Mfg. Date 8/5/2016		Lot Size 27,005		Quantity Shipped 11,370	
Procurement Specification BPS-F-67, REV AR, HS380 REV L				Heat Treat Specification AMS-H-81200C			
Finish Specification BMS10-85V, TY I, CL A HS294 N AIC				Lubrication Specification AS87132 N/C HS305 W			
Material 6-4 Ti		Material Specification AMS 4928 V		Heat No. U6K14		Supplier ATI, USA	
Non-destructive Testing Specification ASTM E1417-16		Sample or 100% SAMPLE		Work Effect Satisfactory		Grain Flow (Hd, thd) Satisfactor	
10 Microstructure: Acceptable.		Grain Size N/A		Decarburization NIL		Method ASTM E1447 Finish Part H2 ppm 57.4 P	
Material Location: Longitudinal Cross Section		Etchant 1: KROLLS		2:		3:	
Discontinuities 1: CREST LAPS .0016		2: RUNOUT /ROLLOVER		3:		4:	
Hardness NO RC							
Double Shear Strength		Ultimate Tensile Strength		Tensile Wedge Strength		Tension-Tension Fatigue	
Pounds Results Too Short		Pounds Locations of Failure Too Short		Pounds Locations of Failure		Life Cycles Locations of Failure Too Short	
MIN. REQ TOO SHO		MAX REQ NR		MIN. REQ		MAX REQ	
NR X1-KaS NR		Ka NR X1-KaS NR		Ka X1-KaS		Ave. Life NR Ave. Req NR Min. Req TOO SHO	
Ka Stress Rupture		Torque Testing		Stress Durability		High Load NR Low Load NR	
Temp: Load: Time: Hours		Sample Size: 10 Hex Broach TQ X Recess TQ TQ Dir. CW 10 "# TQ Dir. CCW 10 "# End Load: N/A		Sample Size: Load: Torque Sustained Load Time: Hours		NDT Results - Satisfactory	
No failures.		No failures.					

Notes: Unusual Observations

Type of Part: BOLT

Note: Not included in Nadcap scope: Stress Rupture, Micro Hardness, Water Immersion, Heat Treat and Plating. Test methods and data on file for review upon request. This Certification Test Report shall not be reproduced in full, without the written approval of the laboratory.

BPS MFG. DATE: 12/8/2016

ALLOY VERIFICATION PERFORMED

THREADS WERE INSPECTED PER AS8879 D

PLATING THICKNESS .00031-.00037 ADHESION PASSED

INSTALLATION TEST: TOO SHORT

MATERIAL IN COMPLIANCE WITH DFAR 252.225-7009

B0206002AG5-3 REV AA

SCHED B 8108.90.8000

ECCN EAR99

"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."

Cert. Rev.	Revision Note
2/15/2017	Original

Lucy Serna, 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#: CP17499

QUANTITY U/M PART-NUMBER	CUST REF#	LOT-NUMBER	Eff Date	EXP DATE
500 EA HST11AG5-3	HST11AG5-3	UD839124		


Jason Lewis
Senior Director, Global Quality

Inv # 07/20/17