In accordance with SAE Aerospace Standard AS7003, to the revision in effect at the time of the audit, this certificate is granted and awarded by the authority of the Nadcap Management Council to:

Genitest Inc.

3472 Frontenac
Montreal, QC H2K 3A5
Canada

This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in www.eAuditNet.com on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:

Materials Testing

Certificate Number: 6961152731
Expiration Date: 31 October 2015

Joseph G. Pinto
Vice President and Chief Operating Officer

Performance Review Institute (PRI) | 161 Thorn Hill Road | Warrendale, PA 15086-7527

Administered by PRI

SCOPE OF ACCREDITATION

Materials Testing

Genitest Inc.
3472 Frontenac
Montreal, QC H2K 3A5
Canada

This certificate expiration is updated based on periodic audits. The current expiration date and scope of accreditation are listed at: www.eAuditNet.com - Online QML (Qualified Manufacturer Listing).

In recognition of the successful completion of the PRI evaluation process, accreditation is granted to this facility to perform the following:

AC7006 Rev G - Audit Criteria Equivalent to ISO/IEC 17025

Chemical Analysis

CH– Analysis of Titanium and Titanium Alloys by Atomic Emission Plasma Spectrometry / ASTM E2371
CH– Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP) / ASTM E1479
CH– Elemental Analysis (Combustion or Fusion) – Carbon / ASTM E1019
CH– Elemental Analysis (Combustion or Fusion) – Carbon / ASTM E1941
CH– Elemental Analysis (Combustion or Fusion) – Nitrogen / ASTM E1019
CH– Elemental Analysis (Combustion or Fusion) – Nitrogen / ASTM E1409
CH– Elemental Analysis (Combustion or Fusion) – Nitrogen / ASTM E1937
CH– Elemental Analysis (Combustion or Fusion) – Oxygen / ASTM E1019
CH– Elemental Analysis (Combustion or Fusion) – Oxygen / ASTM E1409
CH– Elemental Analysis (Combustion or Fusion) – Sulfur / ASTM E1019
CH– Fusion Method for Oxygen in Titanium / ASTM E1409
CH– Inductively Coupled Plasma (ICP)

Mechanical Testing

M– Bend Testing / ASTM E290
M– Carbide Network / ASTM A262 Practice A
M– Carbide Network – Decarburization / ASTM E1077
M– Charpy Impact / ASTM E23
M– Fastener Testing / SAE J429
M– Guided Bend Test for Ductility of Welds / ASTM E190
M– Hardness / NASM1312–6
M– Hardness Testing – Rockwell Hardness / ASTM E18
M– Hardness Testing – Vickers (Macro) / ASTM E92
M– IGA and End Grain Pitting / ASTM E3
M– Metalllography – Measurement of Metal and Oxide Coating Thickness by Microscopial Examination of a Cross Section / ASTM B487
M– Metallography – Alloy Depletion
M– Metallography – Alpha Case / ASTM E3
M– Metallography – Alpha Case / ASTM E407
M– Metallography – Alpha Case / PWA E142
M– Metallography – Alpha Case: Wrought / AMS T9046
M– Metallography – Braze Evaluations / Various ASME, ANSI, AWS, and Mil Stds
M– Metallography – Decarburization / ASTM E3
M– Metallography – Decarburization / ASTM E384
M– Metallography – Effective Case Depth / ASTM E384
M– Metallography – General / AMS 2315
M– Metallography – General / ASTM E112
M– Metallography – General / ASTM E45
M– Metallography – Grain Size (Nickel Alloys) / ASTM E112
M– Metallography – Grain Size (Nickel Alloys) / ASTM E930
M– Metallography – Grain Size / ASTM E112
M– Metallography – Grain Size / ASTM E1181
M– Metallography – Grain Size / ASTM E930
M– Metallography – IGA/IGO
M– Metallography – Inclusion Rating / ASTM E45
M– Metallography – Intergranular Attack / ASTM A262, Practice A & E
M– Metallography – Macroetching / ASTM E3
M– Metallography – Macroetching / ASTM E340
M– Metallography – Measuring Case Depth / SAE J423
M– Metallography – Microcleanliness / ASTM E45
M– Metallography – Microetching / ASTM E407
M– Metallography – Microscopic Determination of Inclusions in Steels / SAE J422
M– Metallography – Oxidation
M– Microhardness / ASTM B578
M– Microhardness Testing, Knoop / ASTM E384
M– Microhardness Testing, Vickers / ASTM E384
M– Room Temperature Tensile (Standard Test Methods of Tension Testing Wrought and Cast Aluminum– and Magnesium–Alloy Products) / ASTM B557
M– Room Temperature Tensile / ASTM E8
M– Standard Test Methods and Definitions for Mechanical Testing of Steel Products / ASTM A370

AC7101/1 Rev E - Nadcap Audit Criteria for Materials Testing Laboratories – General Requirements for All Laboratories (to be used on/After 28 August, 2011)

AC7101/2 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Chemical Analysis (to be used on/after 28 August, 2011)

(F2) Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP–OES/AES)
(G1) Elemental Analysis – Carbon
(G3) Elemental Analysis – Nitrogen
(G4) Elemental Analysis – Oxygen
(G5) Elemental Analysis – Sulfur
Specify the Alloy Base for Accreditation
- Al Base
- Co Base
- Cu Base
- Fe Base, High Alloy
- Fe Base, Low Alloy
- Mg base
- Ni Base
- Ti Base

AC7101/3 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing (to be used on/after 28 August, 2011)

(A) Room Temperature Tensile
(N) Impact
(XN) Bend Testing

AC7101/4 Rev D - Nadcap Audit Criteria for Materials Test Laboratories – Metallography and Microindentation Hardness (to be used on/after 28 August, 2011)

(L) Metallography (General)
(L1) Microindentation (Interior)
(L11) Other
(L5) Near Surface Examinations – Microindentation (Surface)
(LS) Micro: Surface Conditions
- (L10) Near Surface Examinations – Carburization
- (L2) Near Surface Examinations – Alloy Depletion
- (L3) Near Surface Examinations – Oxidation/Corrosion
- (L4) Near Surface Examinations – Casting (Mold) Reactions
- (L6) Near Surface Examinations – Nitriding
- (L7) Near Surface Examinations – IGA, IGO
- (L8) Near Surface Examinations – Alpha Case: Wrought Titanium

(XL) Metallography (Macro)

AC7101/5 Rev C - AC7101/5 – Nadcap Audit Criteria for Materials Test Laboratories – Hardness Testing (Macro) to be used on/after 28 August, 2011)

(M2) Rockwell Hardness
(M3) Vickers Hardness

AC7101/6 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Corrosion (to be used on/after 28 August, 2011)

(Q1) Stress Corrosion

AC7101/7 Rev C - Nadcap Audit Criteria for Materials Test Laboratories – Mechanical Testing Specimen Preparation

(Z) Standard Specimen Machining

AC7101/11 Rev B - Nadcap Audit Criteria for Materials Test Laboratories - Fastener Testing

AC7109/5 Rev E - Nadcap Audit Criteria for Coating Evaluations (Laboratory) (Req'd for all Coatings audits - except suppliers using Nadcap approved AC7109/5 labs)

Hardness – Rockwell
Metallography/Microstructure
Microindentation Hardness – Vickers
Thickness – Metallographic

AC7110/13 Rev B - Nadcap Audit Criteria for Evaluation of Welds to be used ON OR AFTER 5 MAY 2013

DO NOT CHECK – INFORMATION ONLY – IF YOU ARE SELECTING THE AC7110/13 CHECKLIST YOU MUST ALSO SELECT AC7101/4 – Nadcap Audit Criteria for Materials Test Laboratories – Metallography and Microhardness

Supplement A – Metallurgical Evaluation of Welder / Welding Operator Qualifications (identify if this process is used)

Supplement B – Metallurgical Evaluation of Fusion Welds (identify if this process is used)

Supplement D – Metallurgical Evaluation of Resistance Welds (identify if this process is used)

AC7110/13S Rev C - Nadcap Supplemental Audit Criteria for Evaluation of Welds to be used on audits ON OR AFTER 5 May 2013

U13 Bombardier
U2 Pratt & Whitney
U3 Rolls–Royce plc

Lab Type - Lab Type

Independent