



ATTACHMENT 2

AIRWORTHINESS GROUP FACTUAL REPORT

NTSB No. ERA19FA210

**May-June 2019 Maintenance Activity for N32CC
(9 Pages)**



Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406

AIRFRAME LOG

Reg No.: N32CC	Make: Agusta/Leonardo	Model: AW139	Serial No.: 31112
AC TT: 2154.1	A/C Lndg: 3616	Date: 6/28/19	Eng. Model: PT6C-67C
#1 ENG TT: 2154.1	Serial No: PCE-KB0224	Co Cycles: 2781.0	CT: 2386.1 CP: 3189.2
#2 ENG TT: 2154.1	Serial No: PCE-KB0239	Co Cycles: 2154.1	CT: 2523.2 CP: 3198.7

Performed the following 12Fh inspections per Leonardo AW139 AMM:

1. 71-19 Number 1 Engine Oil Level Indicator - VC
2. 71-20 Number 1 Engine Oil Filter Pop-Out Indicator -VC
3. 71-21 Number 2 Engine Oil Level Indicator - VC
4. 71-22 Number 2 Engine Oil Filter Pop-Out Indicator - VC

Performed the following 25Fh inspections per Leonardo AW139 AMM:

1. Tail Rotor and Rotating Controls - DI of Tail Rotor Damper Spherical Bearings For Condition, Damage and Play. If Special Tool Is Available, Removal Is Not Required. Axial Play Check Only. Maximum Play Allowed: 0.1 Mm (0.0039 In) AMP 39-A-64-21-00-00A-31AA-A
2. Tail Rotor Elastomeric Spherical Bearing (P/N 3G6420V00154) - Detailed Inspection for Cracks in The Elastomer AMP 39-A-64-11-00-00A-31AB-A

Perform following 50Hrs. CAMP Cards per Leonardo AW139 AMM:

1. 01-01 Brake Reservoir - Performed A GVI For Contents and Correct Oil Level
2. 01-06 Nose Compartment Components - Performed A GVI For Condition, Security and Damage. Includes Drainage of Pitot-Static Lines and a VC Of External Power Receptacle for Condition and Arcing
3. 01-08 Wiper Arms and Wiper Blades - Performed A GVI For Damage and Condition
4. 02-01 Right Cooling Fan for Rear Avionic Bays - Performed AFC To Detect the Correct Functioning (Perform the Task by Using A Light Piece of Paper to Identify That the Air Flow Coming Outside)
5. 03-01 Tail Rotor Drive Components - Performed A GVI For Condition, Security and Damage (Tail Rotor Shafts Cowlings Opening Required). Pay Particular Attention to Number 2 TRDS In the Section Adjacent to The Area Where Intakes Are Installed on Leading Edge Fairing. Includes A GVI Of Balance Patches for Condition and Security of Attachment
6. 04-01 Intermediate and Tail Rotor Gearbox - Performed A GVI For Leaks and Correct Oil Level. If Leaks Are Detected, Determine the Amount of Leakage (39-A-6S-21-00-00A-364A-A AND 39-A-6S-22-00-00A-364A-A), Including A GVI For General Condition and Security of Attachment
7. 04-02 Tail Rotor Servo Actuator - Performed A GVI For Damage, Condition, Security and Leaks. If Leaks Are Detected, Determine Amount of Leakage (39-A-67-32-01-00A-364A-A)
8. 04-03 Tail Rotor Components, Blades and Rotating Controls - Performed A GVI for Condition, Security and Damage. Pitch Change Mechanism and Rotor Dampers for Condition and Security. Spider and Slider Boot for Damage and Condition
9. 04-04 Tail Rotor Pitch Change Link Assembly Spherical Bearings - Performed A GVI And an OC For Play. No Removal Necessary. No Quantitative Measurement Necessary. If Unusual Play Is Felt, Remove Pitch Link and Perform A DI for Condition, Damage and Play (39-A-64-31-00-00A-286A-A) (39-A-64-31-00-00A-31AA-A)
10. 04-05 Tailplane Attachments - Performed A GVI For Signs of Rubber Extrusion and To Check Tailplane Free Play
11. 04-06 Tail Rotor Boot - Performed A GVI For Damage and Condition Perform 04-07 Tail Access Panels - Performed A GVI For Condition and Security
12. 05-01 Main Rotor Components, Blades and Rotating Controls - Performed A GVI For Condition, Security, Damage, Separation or Loss of Elastomeric Bearing Elements, Blowing And / or Rubber Extruding and Presence of Grease. Check Flap Restrainers and Droop Stop Plate for Condition and For Presence of Grease. Check Damper Fluid Level.
13. 05-03 Main Rotor Dampers - Performed A GVI For Leaks. If Leaks Are Detected, Determine Amount of Leakage (39-A-62-22-00-00a-364a-A)
14. 05-04 Main Rotor Damper Spherical Bearings Performed A GVI And an OC For Play. No Removal Necessary. No Quantitatively Measurement Necessary. If Unusual Play Is Felt, Perform A DI for Condition, Damage and Play (39-A-62-22-00-00A-286A-A) (39-A-62-22-00-00A- 31AA-A)
15. 05-05 Swashplate Boot and Main Rotor Controls Boot - Performed A GVI For Condition and Damage
16. 05-06 Rotating Controls Installation Rotating Scissors Assemblies - Performed A GVI (Pay Particular Attention to The Spherical Bearings Staking Condition) And an OC For Play of Lower Half Scissors Spherical Bearings. No Removal Necessary. No Quantitative Measurement Necessary. If Unusual Play Is Felt, perform a DI for Condition, Damage and Play (39-A-62-31-02-00A-286A-B) (39-A-62-31-02-00A- 31AA-B OR 39-C-62-31-02-00A-31AA-B)
17. 05-07 Main Rotor Sliding Ring Outer Surface and DU Washers - Performed a GVI for Condition and Damage
18. 05-08 Main Rotor Servoactuators - Performed A GVI For Condition, Security, Damage and Leaks. If Leaks Are Detected, Determine Amount of Leakage (39-A-67-31-00-00A-364A-A)
19. 05-09 Main Gearbox - Performed A GVI For Condition, Damage, Leaks, Correct Oil Level and Security of Installation. Cooling System for Condition and Leaks. AMP 39-A-63-20-00-0A-364A-A
20. 05-11 Upper Deck - Performed A GVI For Signs of Leakage Transudation, Fixing/ Condition of Cables and Bleed Air Pipes. Includes Check of Removable Fittings, Hydraulic Pumps, PCMS (Check Also for Correct Fluid Level), Tail Rotor SOV
21. 05-12 Environmental Control System Upper Deck Components - Performed A GVI For Condition, Cleanliness and Damage
22. 05-13 Engine Bays - Performed a GVI For Condition, Damage, Fuel And / or Oil Leaks, Security of Engine Installation and Fire Line Harness. Seals and Firewalls for Cracks. Drain Holes for Obstruction - (Upper Deck - Right Side)
23. 05-11 Engine Exhaust Ducts, Aft/External Section - Performed A GVI Of Inner Surface for Condition and Damage- (Upper Deck - Right Side)
24. 05-14 Engine Bleed Air Ducts - Performed a GVI For Security of Duct Connections and Integrity of The Thermal Insulation. Combined Check of Engine Bay Ducts and Inter-Engine Bay Duct. Engine Cowlings Opening Necessary- (Upper Deck - Right Side)
25. 05-15 Starter Generator Inlet/Outlet Ducts - Performed A GVI For Damage, Condition, Cleanliness and Correct Position - (Upper Deck - Right Side)
26. 05-17 Fire Bottle Compartment - Performed A GVI For Evidence of Damage/Deterioration of Fire Bottles, Tail Rotor Drive Shaft and Antenna. Check Engine Exhaust External Insulation for Evidence of Degradation - (Upper Deck - Right Side)



27. 06-01 Main Rotor Components, Blades and Rotating Controls - Performed a GVI For Condition, Security, Damage, Separation or Loss of Elastomeric Bearing Elements, Blowing And / or Rubber Extruding and Presence of Grease. Check Flap Restrainers and Droop Stop Plate for Condition and For Presence of Grease. Check Damper Fluid Level.

28. 06-02 Main Rotor Pitch Change Link Assembly Spherical Bearings - Performed A GVI And an OC For Play. No Removal Necessary. No Quantitative Measurement Necessary. If Unusual Play Is Felt, Remove Pitch Link and Perform A DI for Condition, Damage and Play (39-A-62-31-00-00A-31AB-A) (39-A-62-31-00-00A-286B-A)

29. 06-04 Main Rotor Damper Spherical Bearings - Performed A GVI And an OC For Play. No Removal Necessary. No Quantitative Measurement Necessary. If Unusual Play Is Felt, Perform A DI for Condition, Damage and Play (3 9-A-6 2-22-00-00A-28A6-A) (3 9-A-62-22-00-00A- 31AA-A)

30. 06-09 Main Gearbox - Performed A GVI For Condition, Damage, Leaks, Correct Oil Level and Security of Installation. Cooling System for Condition and Leaks

31. 06-10 Gimbal and Driveshaft Installation - Performed A GVI For Condition, Security and Leaks. Pay Particular Attention to Signs of Rubber Extrusion and To the Total Surface of The Input Shaft. If Leaks Are Detected, Determine the Amount of Leakage (39-A-63-20-00-00A-364A-A)

32. 06-11 Environmental Control System Upper Deck Components - Performed A GVI For Condition, Cleanliness and Damage. Check Compressor Pack Carter for Condition and Damage

33. 06-12 Engine Bays - Performed A GVI For Condition, Damage, Fuel And / or Oil Leaks, Security of Engine Installation and Fire Line Harness. Seals and Firewalls for Cracks. Drain Holes for Obstruction - (Upper Deck - Left Side)

34. 06-13 Engine Exhaust Ducts, Aft/External Section - Performed A GVI Of Inner Surface for Condition and Damage - (Upper Deck - Left Side)

35. 06-14 Engine Bleed Air Ducts - Performed A GVI For Security of Duct Connections and Integrity of The Thermal Insulation. Combined Check of Engine Bay Ducts and Inter-Engine Bay Duct. Engine Cowlings Opening Required - (Upper Deck - Left Side)

36. 06-15 Starter Generator Inlet/Outlet Ducts - Performed A GVI For Damage, Condition, Cleanliness and Correct Position - (Upper Deck - Left Side)

37. 06-16 Starter Generator QAD Adapter And Q/R- Clamp - Performed A GVI For Damage, Condition and Cleanliness - (Upper Deck - Left Side)

38. 06-17 Fire Bottle Compartment - Performed A GVI for - Evidence of Damage/Deterioration of Fire Bottles, Tail Rotor Drive Shaft and Antenna. Check Engine Exhaust External Insulation for Evidence of Degradation - (Upper Deck - Left Side)

39. 07-01 Rf Gaskets on Baggage Compartment Door - Performed A GVI For Damage and Condition

40. 25C125 Inspect Honeywell 15175 VXP Systems (50 Hours) (DOC# IC01149 Rev-)

41. 62-48 Main Rotor Tension Link - Performed A DI for Presence of Cracks of The Droop Stop Support AMP 39-A-62-22-00-00A-31AK-A

42. 63-35 Rotor Brake Cover - Performed A GVI for Condition and Integrity of Attachments AMP 39-A-63-50-00-00A-310A-A

43. MI62-01 Main Rotor Blade Assembly - General Visual Inspection for Damage AMP 39-A-62-11-00-00A-310A-A

44. MI62-03 Main Rotor Elastomeric Bearing (P/N:3G6220V00154) - Detailed Inspection for Cracks in The Elastomer AMP 39-A-62-22-00-00A-31AC-A

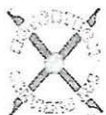
45. MI64-01 Tail Rotor Blade Assembly - General Visual Inspection for Damage AMP 39-A-64-11-00-00A-310A-A

Performed following 300Hrs/1-year CAMP Cards:

1. 32-08 NLG Center Lock Attachment, Lock Pin And Torque Link Attachments and Anti-Shimmy Device (Liebherr landing Gear Installation) - Performed A DI for Condition, Security, Damage And Leaks (Anti-Shimmy Device Only), Including Electrical Connector And Its Exposed Wiring, Amp 39-A-32-20-00-00A31AA-A, AMP 39-A-32-51-01-00A-31AA-A
2. 62-01 Main Rotor Blades Continuity Strip and Damper Bonding Straps - Performed a FC for Electrical Continuity. Includes A VC For Damage, Condition, Security of Attachment and Debonding (Strips Only) AMP 39-A-62-11-01-0L0 365A-A
3. 62-26 Rotating Controls Installation-Swashplate Assembly Duplex Bearing - Performed an QC to Detect Bearing Roughness (Pitch Change Link End/Upper Boot Lower End/Scissors Disconnection Required) AMP 39-A-62-31-06-00A-320A-A
4. 64-01 Tail Rotor Blades Continuity Strip and Damper Bonding Straps - Performed a FC for Electrical Continuity. Includes a VC Of Components for Damage, Condition and Security of Attachment AMP 39-A-64-11-01-00A-365A-A
5. 65-21 Intermediate Gearbox Indicating System-Chip Detector - Performed a DI for Presence of Debris AMP 39-A-65-42-00-00A-31AA-A, AMP 39-B-65-42-00-00A-31AA-A
6. 65-23 Tail Gearbox Indicating System-Chip Detector - Performed A DI for Presence of Debris AMP 39-A-65-43-00-00A-31AA-A, AMP 39-B-65-43-00-00A-31AA-A
7. 71-31 No. 2 Engine IBF Actuator Bundles, Connectors, Circuit Breakers and Cockpit Indicator Switch - Performed A GVI To Detect Corrosion, Overheating or Mechanical Damage of Bundles and Condition, Safety and Security of Connectors AMP 39-A-71-61-00-00A-310A-K

Perform following 600Hrs. CAMP Cards:

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| <ol style="list-style-type: none"> 1. 21-10 Compressor Drive Belt (P/N 1768-107 Only) - Performed A DI for Cracks and Conditions AMP 39-A-21-90-22-00A-31AA-K 2. 19-03 Number 1 Main Hydraulic System-Components And Lines - Performed A GVI For Damage, Condition and Security. Includes Check of Hp Filter Differential Pop-Out Indicators AMP 39-A-29-11-00-00A-310A-A 3. 29-10 Tail Rotor Shutoff Valve - Performed an OC To Detect Dormant Failures of TRSOV and Pcm 2 Oil Level Switches AMP 39-A-29-12-D4-00A-320A-A | <ol style="list-style-type: none"> 4. 29-11 PCM 1 Flight Control Shutoff Valve - Performed an OC To Detect Dormant Failure AMP 39-A-29-11-01-00A-320C-A 5. 29-12 PCM 2 Flight Control Shutoff Valve - Performed an OC To Detect Dormant Failures AMP 39-A-29-12-01-00A-320C-A 6. 29-14 Emergency Landing Gear Shutoff Valve - Performed an OC To Detect Dormant Failures AMP 39-A-29-11-01-00A-320D-A 7. 32-01 MLG Shock Absorber (Liebherr Landing Gear Installation) - Performed a FC for Quantitative Check of |
|--|---|



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- Shock Absorber Extension AMP 39-A-32-10-00-00A-361A-A
- 8. 32-02 MLG Assembly and Retraction Actuators (Liebherr Landing Gear Installation) – Performed A GVI For Condition, Security and Damage Including Electrical Connector, Microswitches And Wiring AMP 39-A-32-10-00-00A-310A-A, AMP 39-A-32-31-00-00A-310A-A
- 9. 32-05 NLG Shock Absorber (Liebherr Landing Gear Installation) - Performed AFC For Quantitative Check of Shock Absorber Extension AMP 39-A-32-21-01-01A-361A-A
- 10. 32-06 NLG Assembly and Retraction Actuator (Liebherr Landing Gear Installation) – Performed A GVI For Condition, Security and Damage Including Electrical Connector, Microswitches And Wiring AMP 39-A-32-21-00-00A-310A-A, AMP 39-A-32-3H00-00A-310A-A
- 11. 32-17 Wheel Brake Wear Indicator Pin (Liebherr Landing Gear Installation) - Performed an OC (Brake Application Required) (Task Includes Check for Maximum Brake Wear) AMP 39-A-32-42-00-00A-3208-A
- 12. 32-31 Main Gearbox Indicating System-Chip Detectors - Performed A DI for Presence of Debris AMP 39-A-63-41-00-00A-31AA-A
- 13. 33C002 Deep Cycle No. 2 Emergency Exit Lighting Battery Pack Emergency Exit Lighting Battery Pack Emergency Power Supply Unit (2 Off)
- 14. 63-31 Main Gearbox Indicating System-Chip Detectors - Performed a DI for Presence of Debris
- 15. 64-25 Spider Duplex Bearing - Performed a QC and A DI to Detect Bearing Roughness (Sliding Control Assy Removal Required) AMP 39-A-64-31-04-01A-320A-B
- 16. 67-04 Yaw Control Pitch Change Rod Connection - Performed A DI AMP 39-A-64-31-00-00A-31AD-A

- 17. 67-06 Main Rotor Actuator Control Valve Bypass Function - Performed an OC for Freedom of Movement of Bypass Sleeve (Actuator Has A Pin Operated Test Facility) AMP 39-A-6F-30-00-00A-320A-A
- 18. 67-08 Tail Rotor Actuator Control Valve Bypass Function - Performed an OC For Freedom of Movement of Bypass Sleeve (Actuator Has A Pin Operated Test Facility) AMP 39-A-67-30-00-00A-320A-A
- 19. 71-23 No. 2 Engine EAPS Panel (Part Numbers 3G7160V03751 and 3G7160V03851) - Performed a GVI For Damage (Creeps), Condition and Security Internal (Engine Cowlings Opening Requires) And External. Make Particular Attention to Rivets Integrity AMP 39-A-75-51-00-00A-310A-K
- 20. 91-03 Flux Valves and Yaw Actuator Bundles and Connectors - Performed A GVI To Detect Corrosion or Mechanical Damage of Bundles and Condition, Safety and Security of Connectors AMP 39-A-91-10 -00-0 OC-310 A-A
- 21. 91-04 Pitch and Roll Actuators - Performed A GVI To Detect Corrosion or Mechanical Damage of Bundles and Condition, Safety and Security of Connectors AMP 39-A-91-10-00-00D-310A-A
- 22. 91-08 Electrical Clipping Bonded in Tail Rotor Actuator Area - Performed an OC To Detect Security of Attachment and Integrity of Bonding to Structure (Fault Finding Task) AMP 39-A-91-10-00-00A-320B-A
- 23. 91-09 Electrical Clipping Bonded Near Main Landing Gear Actuators in Sponson Areas - Performed an OC To Detect Security of Attachment and Integrity of Bonding to Structure (Fault Finding Task) AMP 39-A-91-10-00-00A-3208-A
- 24. CM24-01 Electrical Power - OC Of Essential Bus Feed Circuit Breakers (CB3, CB4, CB47 AND CB48) AMP 39-A-24-61-00-00A-320A-A

Performed following Periodic Engine 1 Inspection / 600Hrs. CAMP Cards:

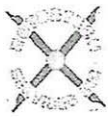
- 1. Perform 057010 No. 1 Engine - Accomplish Periodic Inspection
- 2. 720001 No. 1 Engine - Visually Check Exhaust Duct for Cracks, Distortion and Corrosion MM 72-50-05
- 3. 20002 No. 1 Engine - Visual Check Gas Generator Case for Crack, Distortion and Corrosion MM 72-30-00
- 4. 720003 No. 1 Engine - Visual Check Air Inlet Screen for Cleanliness, Distortion, Corrosion and Overall Condition MM 72-20-00
- 5. 720004 No. 1 Engine - Visual Check Electrical Wiring Harnesses for Evidence of Chafing, Cracks, Corrosion and Wear. Do A Security Check to Verify Connector Security MM 73-20-40
- 6. 720005 No. 1 Engine - Visual Check Tubing and painted Casings for Cracks, Distortion, Corrosion, And Security of Connections, Clamps and Brackets. Check for Evidence of Chafing, Cracks, Corrosion and Wear. Check for Evidence of Fuel or Oil Leaks as Applicable.
- 7. 790050 No. 1 Engine - Replace Oil Filter Element EMM 79-20-02
- 8. 731030 No. 1 Engine- Replace Engine Driven Fuel Pump Fuel Filter Mm 73-20-00

Performed following Periodic Engine 2 Inspection / 600Hrs. CAMP Cards:

- 1. 057010 No. 2 Engine - Accomplish Periodic Inspection
- 2. 720001 No. 2 Engine - Visually Check Exhaust Duct for Cracks, Distortion and Corrosion MM 72-50-05
- 3. 720002 No. 2 Engine- Visual Check Gas Generator Case for Crack, Distortion and Corrosion MM72-30-04
- 4. 720003 No. 2 Engine - Visual Check Air Inlet Screen for Cleanliness, Distortion, Corrosion and Overall Condition MM 72-20-00
- 5. 720004 No. 2 Engine - Visual Check Electrical Wiring Harnesses for Evidence of Chafing, Cracks, Corrosion and Wear. Performed a Security Check to Verify Connector Security MM 73-20-40
- 6. 720005 No. 2 Engine - Visual Check Tubing and Painted Casings for Cracks, Distortion, Corrosion, And Security of Connections, Clamps and Brackets. Check for Evidence of Chafing, Cracks, Corrosion and Wear. Check for Evidence of Fuel or Oil Leaks as Applicable.
- 7. 790050 No. 2 Engine - Replace Oil Filter Element EMM 79-20-02
- 8. 731030 No. 2 Engine- Replace Engine Driven Fuel Pump Fuel Filter Mm 73-20

Perform following 900Hrs/1-year CAMP Cards per Leonardo AW139 AMM:

- 1. 21-04 ECS Compressor Drive Belt- Performed A DI to Check Belt Tension and Condition (Belt Frequency Tension Meter Required) per AMP 39-D-21-90-02-02A-31A A-K, AMP 39-E-21-90-02-02A-31A A-K
- 2. 21-08 ECS Compressor Seals and Fittings - PERFORMED A DI of Fittings and Compressor Seals for Oil Residue Indicating Refrigerant Leakage. Operational Check for Correct Suction and Discharge Compressor Refrigerant Pressures per AMP 39-D-21-90-00-00A-340A-K, AMP39-D-21-90-00-00A-364, AMP 39-E-21-90-00-00A-340, AMP 39-E-21-90-00-00A-364 A-K
- 3. 21-09 ECS Condenser Pack Assy (2 Off) - Performed a DI of ECS Condenser Heat Exchangers for Dirt, Damage or Other Debris, AMP 39-D-21-90-03-00A-31A A-K, AMP 39-E-21-90-03-00A-31A A-K



4. 240004-ICA Perform General Visual Inspection for Condition and Security of Connections. Vent Lines for Condition. Quick Release Connectors for Condition and Arching. Temperature Sensor Connectors for Condition and Security Includes a Check of Batteries to Detect Corrosion or Mechanical Damage or Bundles and Condition, Safety and Security of Connectors

5. 25-68 Portable Fire Extinguishers - Performed a DI of The Fire Extinguisher Gross Weight in Order to Check the Correct Range Value Respect the Initially Installation. In Addition, Performed A DI for Physical Damage, Corrosion, Leakage or Clogged Nozzle AMP 39-A-26-24-00-00A-31A A-A

6. MI62-06 Main Rotor Rotating Swashplate - Inspection for Integrity and Loss of Torque of The Bolts and Ring Retaining the Duplex Bearing AMP 39-A-62-31-06-00A-31A A-A

Performed 12-month servicing per Leonardo AW139 AMM:

complied with 12-month servicing per Leonardo AW 139 IETP task 39-A-12-00-00-00A-028A-A Servicing - General, drained and serviced Main Gear Box, Intermediate Gear Box, Tail Gear Box with Exxon 2380

Performed 25C125 Inspect Honeywell 15175 VXP Systems (50 Hours) (Doc # IC01149 Rev -)

Performed Main and Tail Rotor Track and balance within limits with the following:

Tail Rotor Track and Balance

	Radial	Axial
Ground	0.049 IPS@ 04:48	0.065 IPS@04:06
Hover	0.025 IPS@ 04:31	0.066 IPS@01:34
80K	0.041 IPS@ 05:23	0.067 IPS@01:42
120K	0.067 IPS@ 05:52	0.057 IPS@01:24
VNE	0.082IPS @ 04:29	0.104 IPS@10:53

Main Rotor Track and Balance

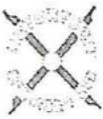
	Lateral	Vertical
Idle	0.028 IPS@ 10:29	0.019 IPS@03:18
Ground	0.048 IPS@ 03:46	0.019 IPS@05:06
Hover	0.022IPS @ 05:19	0.085 IPS@04:07
80K	0.070 IPS@ 05:43	0.077 IPS@04:56
120K	0.042 IPS@ 10:20	0.068 IPS@06:07
VNE	0.016IPS @ 08:04	0.065 IPS@05:49

Performed the Following Ads / ASB:

1. Complied with ASB139-450 Rev. C part VI
2. Complied with SB139-375 part IV, ATA 24 - Auxiliary Circuit breaker panel Modifications
Checked compliance with SB139-375 part I found No Applicable by Panel P/N,(3G2460F0017A1R),part II found No Applicable by Aircraft Serial Number (31112), part III found No Applicable by Aircraft Serial Number (31112).
3. Complied with SB139-526 Main Gear Box Oil Cooling Fan Inspection, Found fan drive seal leaking
4. Complied with Service Bulletin 139-571 ATA64 Duplex Bearing P/N: 3G6430V00153 Recall,
 - o Removed duplex Bearing P/N: 3G6430V00153A, S/N:06174 per Leonardo AW139 IETP Task 39-A-64-31-04-01A-921A-B Duplex bearing (sliding control assembly) - Replacement (remove and install a new item)
 - o Installed new duplex Bearing P/N: 3G6430V00153A1, S/N:19180per Leonardo AW139 IETP Task 39-A-64-31-04-01A-921A-B Duplex bearing (sliding control assembly) - Replacement (remove and install a new item)
5. Checked compliance with SB 139-593 ATA 71 - Engine Mounting Rods Replacement, (AD N/A) Found SB 139-593 No Applicable By Engine Mounting Rods Part Number
6. Checked compliance with AD 2019-12-15, Found AD Previously Complied with by the application of SB 139-397 at 2403.5 FH and 4464 TL
7. Checked compliance with AD2019-12-06 Found AD No Applicable (N/A) by Aircraft Serial Number


Performed the following maintenance tasks per Leonardo AW139 AMM:

- o Performed Epic system data base down load per Leonardo AW 139 IETP task 39-A-45-45-00-00A-75CA-A Central maintenance system (CMS) - Full software data loading - Operational software loading procedures
- o Removed RH main landing gear wheel per AW 139 IETP Task 39-A-32-41-04-00A-520A-A Right main wheel - Remove procedure
- o Disassembled wheel, rotate tire and reassemble wheel per AW 139 IETP Task 39-A-32-41-04-01A-921A-B Tire (right main wheel) - Replacement (remove and install a new item)
- o Re-installed main landing gear wheel Assy. per AW 139 IETP Task 39-A-32-41-04-00A-720A-A Right main
- o Removed #2 MAU per Leonardo AW139 IETP Task 39-B-31-41-01-00A-520A-K Number 1 modular avionics unit (MAU1) cabinet - Remove procedure
- o Removed fans per Leonardo AW139 IETP Task 39-A-31-42-08-00A-520A-A Number 2 fan assembly - Remove procedure
- o Installed 2 new 2 MAU cooling fans P/N:7024282-908, S/N:40983020 and P/N:7024282-907, S/N:40996329 per Leonardo AW139 IETP Task 39-A-31-42-08-00A-720A-A Number 2 fan assembly - Install procedure
- o Reinstalled #2 MAU per Leonardo AW139 IETP Task 39-B-31-41-01-00A-720A-K Number 1 modular avionics unit (MAU1) cabinet - Install procedure
- o Due to corrosion found along forward outboard edge of panel of Aft LH float cavity, Cleaned, treaded and prime area per Leonardo AW139 IETP Task 39-A-20-00-00-00A-028A-D Standard practices – General
- o Due to torque check fail during compliance with ASB139-450 Rev D part VI Removed Main Rotor Damper P/N: 3G6220V01352 S/N: MCR7951 per Leonardo AW139 IETP Task 39-A-62-22-02-00A-52A-A L,ag damper - Remove procedure
- o Performed disassembly, inspections and assembly of Main Rotor Damper P/N: 3G6220V01352 S/N: MCR7951 as prescribed by steps 8 thru 23 of the compliance instruction Paragraph 8) in annex A of SB 139-450, with this action BT 139-446 part III had been complied on this M/R Damper and has to be added to log card



- Reinstalled Main Rotor Damper P/N: 3G6220V01352 S/N: MCR7951 per Leonardo AW139 IETP Task 39-A-62-22-02-00A-720A-A Lag damper - Install procedure
- Removed RH landing gear per Leonardo AW 139 IETP Task 39-A-32-12-01-00A-520A-A Right main landing gear - Remove procedure
- Disassembled RH landing gear per Leonardo AW 139 IETP Task 39-A-32-12-01-00A-530A-B Right main landing gear - Disassemble procedure
- Removed RH landing gear Shock absorber P/N: 3G3210V0333, S/N: 00201 with 2851.8 FH and 5175 landings per Leonardo AW 139 IETP Task 39-A-32-12-01-01A-520A-B Shock absorber assembly (right main landing gear) - Remove procedure
- Removed RH landing gear Shortening Actuator P/N: 3G3230V00234, S/N: 00198 with 2851.8 FH and 5175 landings per Leonardo AW 139 IETP Task 39-A-32-12-01-02A-920A-B Main shock absorber (right main landing gear) - Replacement
- Installed Repaired landing gear Shock absorber P/N: 3G3210V0333, S/N: 01367 with 1760.1 FH and 4692 landings per Leonardo AW 139 IETP Task 39-A-32-12-01-01A-710A-B Shock absorber assembly (right main landing gear) - Assemble procedure, Shock absorber repaired by Luftfahrt-Bundesamt/Germany under work order #8516144
- Installed Repaired landing gear Shortening Actuator P/N: 3G3230V00234, S/N: 01194 with 3721.8 FH and 5310 landings per Leonardo AW 139 IETP Task 39-A-32-12-01-02A-920A-B Main shock absorber (right main landing gear) - Replacement, Shortening Actuator repaired by Liebherr Aerospace Saline, Inc under work order #615808
- Assembled RH landing gear per Leonardo AW 139 IETP Task 39-A-32-12-01-00A-710A-B Right main landing gear - Assemble procedure
- Reinstalled RH landing gear per Leonardo AW 139 IETP Task 39-A-32-12-01-00A-720A-A Right main landing gear - Install procedure
- Removed LH landing gear per Leonardo AW 139 IETP Task 39-A-32-11-01-00A-520A-A Left main landing gear - Remove procedure
- Disassembled LH landing gear per Leonardo AW 139 IETP Task 39-A-32-11-01-00A-530A-B Left main landing gear - Disassemble procedure
- Removed LH landing gear Shock absorber P/N: 3G3210V0333, S/N: 00407 with 2154.1 FH and 36116 landings per Leonardo AW 139 IETP Task 39-A-32-11-01-01A-520A-B Shock absorber assembly (left main landing gear) - Remove procedure
- Installed Repaired landing gear Shock absorber P/N: 3G3210V0333, S/N: 00451 with 3153.05 FH and 7582 landings per Leonardo AW 139 IETP Task 39-A-32-11-01-01A-720A-B Shock absorber assembly (left main landing gear) - Install procedure, Shock absorber repaired by Luftfahrt-Bundesamt/Germany under work order #8514436
- Assembled LH landing gear per Leonardo AW 139 IETP Task 39-A-32-11-01-00A-710A-B Left main landing gear - Assemble procedure
- Reinstalled LH landing gear per Leonardo AW 139 IETP Task 39-A-32-11-01-00A-720A-A Left main landing gear - Install procedure
- Due to MGB oil cooler fan drive leaking oil Installed new seal P/N: 3G6320V04951 and repaired seal housing per Leonardo return to service instruction PSEQW1139/2019/100799/298575 that indicate to return to service for 100Hrs. or until new shaft become available
- Due to corrosion, removed LH & RH landing light retainer ring and removed corrosion, treaded and painted
- Removed 2 Rotating Scissor Assy, per Leonardo AW139 IETP Task 39-A-62-31-02-00A-520A-A Rotating scissors - Remove procedure
- Disassembled Rotating Scissor Assemblies, per Leonardo AW139 IETP Task 39-A-62-31-02-00A-530A-B Rotating scissors - Disassemble procedure
- Removed from service Lower Scissor Lever Assy P/N: 3G6230A00932, S/N: R1320 with 632.1 FH from Rotating scissor assy 3G6230A00732, S/N: LAS1
- Installed Repaired Lower Scissor Lever Assy P/N: 3G6230A00932, S/N: V1751 with 632.1 Fh per Leonardo AW139 IETP Task 39-A-62-31-02-00A-710A-B Rotating scissors - Assemble procedure, Lever Repaired by AgustaWestland Philadelphia Corporation under WO 7805972
- Removed from service Lower Scissor Lever Assy P/N: 3G6230A00932, S/N: R1322 with 901.9 Fh from Rotating scissor assy 3G6230A00732, S/N: P322
- Installed Repaired Lower Scissor Lever Assy P/N: 3G6230A00932, S/N: P953 with 632.1 Fh per Leonardo AW139 IETP Task 39-A-62-31-02-00A-710A-B Rotating scissors - Assemble procedure, Lever Repaired by AgustaWestland Philadelphia Corporation under WO 7805972
- Due to shafting wire for PCM 1 and LH condenser fan repair insulation and secure cables
- Due to interrupted continuity between Main Rotor blades and M/R Hub, Cleaned the mating area between bonding contactor and the blade Continuity check completed in accordance with MM 39-A-62-11-01-00A-365A-A. No discrepancies found.
- Bleed wheel brake per Leonardo AW139 IETP Task 39-A-32-42-00-00A-231A-A Wheel brake system - Bleed
- Replaced LH top Maintenance Step FWD cable P/N: NAS324C33-0117, per Leonardo AW 139 IETP task 39-A-52-43-02-00A-921A-A Left top maintenance step - Restraint cable - Replacement (remove and install a new item)
- Due to paint deterioration, removed 4 T/R PCL, per Leonardo AW 139 IETP task 39-A-64-31-01-00A-520A-A Pitch link - Remove procedure
- painted all 4 PCL surfaces
- Reinstalled 4 T/R PCL, per Leonardo AW 139 IETP task 39-A-64-31-01-00A-720A-A Pitch link - Install procedure

I CERTIFY THAT THE ABOVE WORK WAS PERFORMED ON THIS AIRCRAFT AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. ALL WORK PERFORMED IN ACCORDANCE WITH MANUFACTURER'S MAINTENANCE MANUAL, INSPECTION GUIDES AND CURRENT FAA REGULATIONS, WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. ALL ADDITIONAL PERTINENT DETAILS OF WORK PERFORMED DURING THIS INSPECTION ARE ON FILE UNDER WORK ORDER No. 2320

Authorized Signature  Date: June 28, 2019
ROTORTECH SERVICES, Inc., 4095 Southern Blvd., West Palm Beach, Fla. 33406 FAA CRS O38R249Y

Reg:N32CC SN:31112 ACTT:2154.1 Date:6-28-2019

Performed emergency battery cap check on #1 and #2
emergency batteries In Accordance With AW 139
Maintenance Manual 39-A-33-51-00-00A-200A-A . #2 Battery
SN:111278 failed cap inspection not to be reinstalled. The #1
Battery charged to full capacity and to be reinstalled by
Rotortech services. No further faults found at this time.



AP  Date:6-28-2019

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA

Section 1: Record of engine maintenance and elementary work



Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406


ENGINE #1 LOG

Reg No.: N32CC	Make: Leonardo	Model: AW139	Serial No.: 31112
ACTT.: 2132.1 Fh	A/C Lndg.: 3585	Date: Mar 30, 2019	Eng. Model: PT6C-67C
#1ENGTT.: 2132.1 Fh	Serial No.: PCE-KB0224	Co Cycles: 2729.4	CT: 2327.2 CP: 3118.5
#2ENGTT.: 2132.1 Fh	Serial No.: PCE-KB0239	Co Cycles: 2868.4	CT: 2464.3 CP: 3125.1

Performed the following engine inspections per Pratt and Whitney PT6C-67C EMM:

1. 057010 No. 1 Engine Periodic Inspection.
2. 720001 Exhaust duct - GVI per MM 72-50-05.
3. 720002 Gas Generator Case - GVI per MM 72-30-04.
4. 720003 Air Inlet Screen - GVI per MM 72-20-00
5. 720004 Electrical Wiring Harness - GVI per MM 73-20-40
6. 720005 Tubing and Painted Casings - GVI

I CERTIFY THAT THE ABOVE WORK WAS PERFORMED ON THIS ENGINE AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. ALL WORK PERFORMED IN ACCORDANCE WITH MANUFACTURER'S MAINTENANCE MANUAL, INSPECTION GUIDES AND CURRENT FAA REGULATIONS, WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. ALL ADDITIONAL PERTINENT DETAILS OF WORK PERFORMED DURING THIS INSPECTION ARE ON FILE UNDER WORK ORDER No. 2303, 2310

Authorized Signature:  Date: Mar 30, 2019
 ROTORTECH SERVICES, Inc., 4095 Southern Blvd., West Palm Beach, Fla. 33406 FAA CRS O38R249Y



Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406

ENGINE #1 LOG

Reg No.: N32CC	Make: Agusta/Leonardo	Model: AW139	Serial No.: 31112
ACTT.: 2154.1	A/C Lndg.: 3616	Date: 6/28/19	Eng. Model: PT6C-67C
#1 ENG TT: 2154.1	Serial No.: PCE-KB0224	Co Cycles: 2781.0	CT: 2386.1 CP: 3189.2
#2 ENG TT: 2154.1	Serial No.: PCE-KB0239	Co Cycles: 2154.1	CT: 2523.2 CP: 3198.7


Performed the following 12Fh inspections per Leonardo AW139 AMM:

1. 71-19 Number 1 Engine Oil Level Indicator - VC
2. 71-20 Number 1 Engine Oil Filter Pop-Out Indicator - VC

Performed following Periodic Engine 1 Inspection / 600Hrs. CAMP Cards:

1. Perform 057010 No. 1 Engine - Accomplish Periodic Inspection
2. 720001 No. 1 Engine - Visually Check Exhaust Duct for Cracks, Distortion and Corrosion MM 72-50-05
3. 20002 No. 1 Engine - Visual Check Gas Generator Case for Crack, Distortion and Corrosion MM 72-30-04
4. 720003 No. 1 Engine - Visual Check Air Inlet Screen for Cleanliness, Distortion, Corrosion and Overall Condition MM 72-20-00
5. 720004 No. 1 Engine - Visual Check Electrical Wiring Harnesses for Evidence of Chafing, Cracks, Corrosion and Wear. Do A Security Check to Verify Connector Security MM 73-20-40
6. 720005 No. 1 Engine - Visual Check Tubing and painted Casings for Cracks, Distortion, Corrosion, And Security of Connections, Clamps and Brackets. Check for Evidence of Chafing, Cracks, Corrosion and Wear. Check for Evidence of Fuel or Oil Leaks as Applicable.
7. 790050 No. 1 Engine - Replace Oil Filter Element EMM 79-20-02
8. 731030 No. 1 Engine- Replace Engine Driven Fuel Pump Fuel Filter Mm 73-20-00

I CERTIFY THAT THE ABOVE WORK WAS PERFORMED ON THIS ENGINE AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. ALL WORK PERFORMED IN ACCORDANCE WITH MANUFACTURER'S MAINTENANCE MANUAL, INSPECTION GUIDES AND CURRENT FAA REGULATIONS, WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. ALL ADDITIONAL PERTINENT DETAILS OF WORK PERFORMED DURING THIS INSPECTION ARE ON FILE UNDER WORK ORDER No. 2320

Authorized Signature:  Date: June 28, 2019
 ROTORTECH SERVICES, Inc., 4095 Southern Blvd., West Palm Beach, Fla. 33406 FAA CRS O38R249Y

Section 1: Record of engine maintenance and elementary work



Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406


ENGINE #2 LOG

Reg No.: N32CC	Make: Leonardo	Model: AW139	Serial No.: 31112
ACTT.: 2132.1 Fh	A/C Lndg.: 3585	Date: Mar 30, 2019	Eng. Model: PT6C-67C
#1ENGTT.: 2132.1 Fh	Serial No.: PCE-KB0224	Co Cycles: 2729.4	CT: 2327.2 CP: 3118.5
#2ENGTT.: 2132.1 Fh	Serial No.: PCE-KB0239	Co Cycles: 2868.4	CT: 2464.3 CP: 3125.1

Performed the following engine inspections per Pratt and Whitney PT6C-67C EMM:

1. 057010 No. 1 Engine Periodic Inspection.
2. 720001 Exhaust duct - GVI per MM 72-50-05.
3. 720002 Gas Generator Case - GVI per MM 72-30-04.
4. 720003 Air Inlet Screen - GVI per MM 72-20-00
5. 720004 Electrical Wiring Harness - GVI per MM 73-20-40
6. 720005 Tubing and Painted Casings - GVI

I CERTIFY THAT THE ABOVE WORK WAS PERFORMED ON THIS ENGINE AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. ALL WORK PERFORMED IN ACCORDANCE WITH MANUFACTURER'S MAINTENANCE MANUAL, INSPECTION GUIDES AND CURRENT FAA REGULATIONS, WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE. ALL ADDITIONAL PERTINENT DETAILS OF WORK PERFORMED DURING THIS INSPECTION ARE ON FILE UNDER WORK ORDER No. 2303, 2310

Authorized Signature:  Date: Mar 30, 2019
 ROTORTECH SERVICES, Inc., 4095 Southern Blvd., West Palm Beach, Fla. 33406 FAA CRS O38R249Y



Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406

ENGINE #2 LOG

Reg No.: N32CC	Make: Agusta/Leonardo	Model: AW139	Serial No.: 31112
AC TT: 2154.1	A/C Lndg: 3616	Date: 6/28/19	Eng. Model: PT6C-67C
#1 ENG TT: 2154.1	Serial No: PCE-KB0224	Co Cycles: 2781.0	CT: 2386.1 CP: 3189.2
#2 ENG TT: 2154.1	Serial No: PCE-KB0239	Co Cycles: 2154.1	CT: 2523.2 CP: 3198.7

Performed the following 12Fh inspections per Leonardo AW139 AMM:

1. 71-21 Number 2 Engine Oil Level Indicator - VC
2. 71-22 Number 2 Engine Oil Filter Pop-Out Indicator - VC

Performed following Periodic Engine 2 Inspection / 600Hrs. CAMP Cards:

1. 057010 No. 2 Engine - Accomplish Periodic Inspection
2. 720001 No. 2 Engine - Visually Check Exhaust Duct for Cracks, Distortion and Corrosion MM 72-50-05
3. 720002 No. 2 Engine - Visual Check Gas Generator Case for Crack, Distortion and Corrosion MM72-30-04
4. 720003 No. 2 Engine - Visual Check Air Inlet Screen for Cleanliness, Distortion, Corrosion and Overall Condition MM 72-20-00
5. 720004 No. 2 Engine - Visual Check Electrical Wiring Harnesses for Evidence of Chafing, Cracks, Corrosion and Wear. Performed a Security Check to Verify Connector Security MM 73-20-40

Section 1: Record of engine maintenance and elementary work

Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406

ENGINE #1 LOG

Reg No.: N32CC	Make: Leonardo	Model: AW139	Serial No.: 31112
ACTT.: 2132.1 Fh	A/C Lndg.: 3585	Date: Mar 30, 2019	Eng. Model: PT6C-67C
#1ENGTT.: 2132.1 Fh	Serial No.: PCE-KB0224	Co Cycles: 2729.4	CT: 2327.2 CP: 3118.5
#2ENGTT.: 2132.1 Fh	Serial No.: PCE-KB0239	Co Cycles: 2868.4	CT: 2464.3 CP: 3125.1

Performed the following engine inspections per Pratt and Whitney PT6C-67C EMM:

1. 057010 No. 1 Engine Periodic Inspection.
2. 720001 Exhaust duct - GVI per MM 72-50-05.
3. 720002 Gas Generator Case - GVI per MM 72-30-04.
4. 720003 Air Inlet Screen - GVI per MM 72-20-00
5. 720004 Electrical Wiring Harness - GVI per MM 73-20-40
6. 720005 Tubing and Painted Casings - GVI

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Authorized Signature: [Redacted] Date: Mar 30, 2019
 ROTORTECH SERVICES, Inc., 4095 Southern Blvd., West Palm Beach, Fla. 33406 FAA CRS O38R249Y

Palm Beach International Airport
4095 Southern Blvd.
West Palm Beach, FL 33406

ENGINE #1 LOG

Reg No.: N32CC	Make: Agusta/Leonardo	Model: AW139	Serial No.: 31112
ACTT.: 2154.1	A/C Lndg.: 3616	Date: 6/28/19	Eng. Model: PT6C-67C
#1 ENG TT: 2154.1	Serial No: PCE-KB0224	Co Cycles: 2781.0	CT: 2386.1 CP: 3189.2
#2 ENG TT: 2154.1	Serial No: PCE-KB0239	Co Cycles: 2154.1	CT: 2523.2 CP: 3198.7

Performed the following 12Fh inspections per Leonardo AW139 AMM:

1. 71-19 Number 1 Engine Oil Level Indicator - VC
2. 71-20 Number 1 Engine Oil Filter Pop-Out Indicator -VC

Performed following Periodic Engine 1 Inspection / 600Hrs. CAMP Cards:

1. Perform 057010 No. 1 Engine - Accomplish Periodic Inspection
2. 720001 No. 1 Engine - Visually Check Exhaust Duct for Cracks, Distortion and Corrosion MM 72-50-05
3. 20002 No. 1 Engine - Visual Check Gas Generator Case for Crack, Distortion and Corrosion MM 72-30-04
4. 720003 No. 1 Engine - Visual Check Air Inlet Screen for Cleanliness, Distortion, Corrosion and Overall Condition MM 72-20-00
5. 720004 No. 1 Engine - Visual Check Electrical Wiring Harnesses for Evidence of Chafing, Cracks, Corrosion and Wear. Do A Security Check to Verify Connector Security MM 73-20-40
6. 720005 No. 1 Engine - Visual Check Tubing and painted Casings for Cracks, Distortion, Corrosion, And Security of Connections, Clamps and Brackets. Check for Evidence of Chafing, Cracks, Corrosion and Wear. Check for Evidence of Fuel or Oil Leaks as Applicable.
7. 790050 No. 1 Engine - Replace Oil Filter Element EMM 79-20-02
8. 731030 No. 1 Engine - Replace Engine Driven Fuel Pump Fuel Filter Mm 73-20-00

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Authorized Signature: [Redacted] Date: June 28, 2019
 ROTORTECH SERVICES, Inc., 4095 Southern Blvd., West Palm Beach, Fla. 33406 FAA CRS O38R249Y
