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**MUKAMALAH AVIATION COMPANY LIMITED (MAC)**  
**LEONARDO S.p.A. AW139 AIRCRAFT INSPECTION PROGRAM**  
**05-05-600 AW139 600 HOUR (VIP) CHECK**

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**Tail Number**

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**SAP Order Number**

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**Work Order Number**

**Instructions**

1. Each listed inspection and/or maintenance function is to be performed in accordance with the publications listed in the current AW139 Technical Publications Index.
2. This inspection must be performed every 600 hours on VIP aircraft S/N 31562 & 31851. The 300 Hr and 50 Hr Inspection Checklists must be accomplished in conjunction with this inspection.
3. Each section / item must be initialed or stamped by the mechanic and inspector performing the inspection.
4. All personnel (mechanics, inspectors, shops, etc) who will be signing off any part of the check are required to enter their printed name, signature, company ID, and stamp imprint (or certificate number if work is not being performed by repair station) on the aircraft maintenance signature page provided with the work package.
5. Enter all discrepancies found and the corrective action taken on repair station or operator non-routine forms. On this inspection form, write **YES** or **NO** in the box under **Work Required** column for each section / item. If work was required and **YES** was written in the **Work Required** box, also indicate the Non-Routine number that the work was performed under.
6. At the completion of each inspection form, a qualified & authorized mechanic shall check the entire form for proper completion and then enter his signature, company ID number (or certificate number if work is not being performed by repair station), date and repair station certificate number (if applicable) in the space provided at the end of the form.
7. Enter the Man Hours for each completed line item in the MHRS column.
8. Items designated Clearance To Close (CTC) in the Inspectors column can be signed using the company ID number (or certificate number if work is not being performed by repair station) by any qualified mechanic.

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**1. AIRCRAFT GENERAL – PRE CHECK AND OPENING**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
	NOTE: NO ITEMS IN THIS CHECK				
AIRCRAFT GENERAL – PRE-CHECK AND OPENING COMPLETED					

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**2. FUSELAGE (INCL. UPPER DECK) & LANDING GEAR**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 18-01	AVCS Actuators: Do a DI of actuator attaching bolts for correct torque.  Ref. 39-A-18-31-00-00A-31AA-K  Applicable _____ Not Applicable _____		RII		
2. 18-07	Circular Force AVCS: Do a DI of actuator attaching bolts for correct torque.  Ref. 39-A-18-33-00-00A-31AA-K / 39-B-18-33-00-00A-31AA-K 39-C-18-33-00-00A-31AA-K / 39-D-18-33-00-00A-31AA-K  Applicable _____ Not Applicable _____		RII		
3. 29-03	Number 1 main hydraulic system - Components and lines: Do a GVI for damage, condition and security. Includes check of HP filter differential pop-out indicators.  Ref. AMP 39-A-29-11-00-00A-310A-A.				
4. 29-06	Number 2 main hydraulic system - Components and lines: Do a GVI for damage, condition and security. Includes check of HP filter differential pop-out indicators.  Ref. AMP 39-A-29-12-00-00A-310A-A.				
5. 29-07 29-10	Tail rotor shutoff valve: Do an OC to detect dormant failures.  Ref. AMP 39-A-29-12-04-00A-320A-A.  NOTE: Complete this task after replacement of PCM #2 pressure & return filter elements has been completed.		RII		
6. 29-09 29-11	PCM 1 flight control shutoff valve: Do an OC to detect dormant failures.  Ref. AMP 39-A-29-10-02-00A-320A-A.  NOTE: Complete this task after replacement of PCM #1 pressure & return filter elements has been completed.		RII		
7. 29-12 29-13	PCM 2 flight control shutoff valve: Do an OC to detect dormant failures.  Ref. AMP 39-A-29-10-02-00A-320A-A.  NOTE: Complete this task after replacement of PCM #2 pressure & return filter elements has been completed.		RII		

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**2. FUSELAGE (INCL. UPPER DECK) & LANDING GEAR**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
8. 29-14 29-15	Emergency landing gear shutoff valve: Do an OC to detect dormant failures.  Ref. AMP 39-A-29-10-02-00A-320A-A  NOTE: Complete this task after replacement of PCM #1 pressure & return filter elements has been completed.		RII		
9. 53-04	Nose landing gear actuator fitting and back-up structure: Do a GVI to detect damage.  Ref. 39-A-53-10-00-00B-310A-A.  NOTE: Back-up structure only, NOT machined parts.				
10. 67-06	Main rotor actuator control valve bypass function: Do an OC for freedom of movement of bypass sleeve (actuator has a pin operated test facility).  Ref. 39-A-67-30-00-00A-320A-A		RII		
11. 67-08	Tail rotor actuator control valve bypass function: Do an OC for freedom of movement of bypass sleeve (actuator has a pin operated test facility).  Ref. 39-A-67-30-00-00A-320A-A		RII		
12. MTD 2016-002AW139	Hyd. System 1 pressure filter: Replace PCM #1 pressure filter.  Ref. 39-A-29-11-01-02A-921A-A.		RII		
13. MTD 2016-002AW139	Hyd. System 1 return filter: Replace PCM #1 return filter.  Ref. 39-A-29-11-01-03A-921A-A		RII		
14. MTD 2016-002AW139	Hyd. System 2 pressure filter: Replace PCM #2 pressure filter.  Ref. 39-A-29-12-01-02A-921A-A.		RII		
15. MTD 2016-002AW139	Hyd. System 2 return filter: Replace PCM #2 return filter.  Ref. 39-A-29-12-01-03A-921A-A		RII		
<b>FUSELAGE (INCL. UPPER DECK) &amp; LANDING GEAR COMPLETED</b>					

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**3. TAILBOOM & TAIL ROTOR DRIVE**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. Intermediate gearbox removal (for access)	Remove intermediate gearbox.  Ref. 39-A-65-21-01-00A-520A-A.				
2. 65-25	Intermediate gearbox: Lubrication by grease application of the input spline mating surfaces.  Ref. 39-A-65-21-01-01A-242A-A or 39-B-65-21-01-01A-242A-A (as applicable).		RII		
3. Intermediate gearbox – output sliding adapter – lubrication	Remove intermediate gearbox output sliding adapter, lubricate and reinstall.  Ref. 39-A-65-21-01-02A-920A-A.		RII		
4. Intermediate gearbox reinstallation	After completion of steps above reinstall intermediate gearbox.  Ref. 39-A-65-21-01-00A-720A-A.		RII		
TAILBOOM & TAIL ROTOR DRIVE COMPLETED					

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**4. MAIN ROTOR & GEARBOX**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 18-02	<b>S/N 31562 Only</b> Mast vibration absorber installation components: Do a DI for condition, fretting and wear of contact zone with mast internal diameter (mast vibration absorber removal required). Task includes a DI of adjacent mast internal diameter area.  Ref. 39-A-18-63-00-00A-31AA-K				
	MVA Removal				
	MVA Inspection		RII		
	MVA Reinstallation		RII		
2. 18-03	<b>S/N 31562 Only</b> Mast vibration absorber assembly: Do a GVI corrosion, integrity and wear (mast vibration absorber removal and disassembly required).  Ref. 39-A-18-63-00-00A-310A-K		RII		
3. 21-10	<b>BELT P/N 1768-107 ONLY</b> Compressor drive belt: Do a DI to check belt tension and condition (belt frequency tension meter required). Do a DI to check for cracks and condition.  Ref. 39-A-21-90-22-00A-31AA-K  Applicable _____ Not Applicable _____		RII		
4. 63-20 (MTD AW139-12-024)	MGB oil cooling fan: Do a GVI to check freedom of rotation of the fan impeller (bearing roughness). Clean the MGB Oil Cooler & Fan, and check the nuts slip mark.  Ref. 39-A-63-20-03-00A-310A-A or TMI 139-465 (whichever is more recent)		RII		
5. 63-41	Rotor brake caliper: Do the manual OC for freedom of rotation (rotor brake actuator disconnection required). If difficult of movement is felt clean and lubricate by greasing the caliper shaft.  Ref. 39-A-63-51-05-00A-320A-A (or applicable TMI).				

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**4. MAIN ROTOR & GEARBOX**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
6. MTD AW139-11-027	Sliding adapter (main gearbox) lubrication: Remove main gearbox sliding adapter, lubricate, and reinstall.  Ref. 39-A-63-20-05-39A-920A-A.  NOTE: removal of number 1 drive shaft required.				
MAIN ROTOR & GEARBOX COMPLETED					

**5. ENGINE & POWERPLANT**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
	NOTE: NO ITEMS IN THIS CHECK				
ENGINE & POWERPLANT COMPLETED					

**6. AVIONIC & ELECTRICAL**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. CM24-01	Electrical Power: OC of essential bus feed circuit breakers (CB3, CB4, CB47 and CB48).  Ref. 39-A-24-61-00-00A-320A-A				
AVIONIC & ELECTRICAL COMPLETED					

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**7. AIRCRAFT GENERAL – CLOSEOUT**

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. General	Install all furnishings, insulations and linings from the interior of the cockpit and the cabin. To do this refer to the applicable data modules of Chapter 25 of the Maintenance Publication (39-A-AMP-00-X).				
2. Engine cowlings	Install the engine cowlings. Refer to the applicable data module of Chapter 71 of the Maintenance Publication (39-A-AMP-00-X).				
3. Access panels	Install all access panels. Refer to data module 39-A-06-41-00A-010A-A of the Maintenance Publication (39-A-AMP-00-X) for the data module codes of the applicable install procedures.  Re-install cabin floor panels opened in step 1.b of this checklist.  Refer to 300 Hr Inspection Checklist for panel listing and clearance-to-close.				
4. Access doors	Close the access doors. Refer to data module 39-A-06-41-00A-010A-A of the Maintenance Publication (39-A-AMP-00-X).				
<b>AIRCRAFT GENERAL – CLOSEOUT COMPLETED</b>					

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**8. WORK COMPLETION**

TASK	MECH	INSP	WORK REQD Yes / No
Ensure the 50 Hour and 300 Hour Aircraft Inspection Checklists have been completed in conjunction with this checklist.			
Complete final walkaround on aircraft to ensure all panels have been reinstalled.			
Verify completion of all associated Routine / Non-Routine work forms.			
Record the total man-hours for all checklist items: _____			

I certify that the 600 Hour (VIP) Check has been performed on aircraft:

(tail number) \_\_\_\_\_, aircraft total time \_\_\_\_\_, in accordance with the Saudi Arabian Oil Company Leonardo AW139 Aircraft Inspection Program Revision \_\_\_\_ and Operator Maintenance Manual Revision \_\_\_\_ and the aircraft has been determined to be in airworthy condition with respect to the work performed.

Date

Mechanic's Signature

Company ID No. or  
Cert. No.

Repair Station Cert. No.  
(if applicable)