AW139

Air vehicle maintenance planning information

Chapter 05

Scheduled/unscheduled maintenance

Issue 022: 2020-12-23

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Highlights

The listed changes are introduced in issue 022, dated 2020-12-23, of this chapter.

Data module code	Reason for change
39-A-05-12-00-00A-028E-P	Changed - Added CO62-03 and deleted CO71-02
39-A-05-13-00-00A-028E-P	Changed - Added DT71-04 and Note 17 to DT31-06
39-A-05-21-00-00A-028E-P	Changed - Changed tasks as shown with change marks - Added new tasks 52-04, 62-50A, 64-38, 25-25A, 25-32A, 25-44A and 25-45A - Deleted tasks 25-24A and 25-31

References

Table 1 References

Data module/Technical publication	Title
39-A-05-10-00-00A-028E-P	Time limits - General
39-A-05-21-00-00A-028E-P	Maintenance tasks overview - General
39-A-05-51-00-00A-028E-P	Conditional inspections - General

Description

1 Scheduled/unscheduled maintenance

1.1 General

This chapter describes the scheduled and unscheduled maintenance operations applicable to the AW139 helicopter. The procedures related to the maintenance tasks will be found in the pertinent chapters of the Maintenance Publication (39-A-AMP-00-P).

The inspections are presented in typographic form suitable for the local reproduction in such a way as to be used by personnel to perform helicopter inspections and to constitute, if desired, a data collection.

The inspections must be accomplished by qualified personnel to ascertain the airworthiness of the helicopter. Eventual discrepancies must be eliminated before flight.

1.2 Continued Airworthiness

The maintenance requirements identified in this chapter, together with those in the following list, constitute the instructions for Continued Airworthiness for the helicopter:

– Airworthiness Limitations as in Chapter 04 of this publication
– Helicopter pre-flight checks identified in Section 2 of the Rotorcraft Flight Manual
– PT6C-67C engine scheduled maintenance requirements
– Technical bulletins, where applicable to the specific helicopter serial number configuration.

1.3 Airworthiness checks

In case the Airworthiness Checks need to be accomplished, the following will apply:

– The Airworthiness Checks are an inspection that has to be performed by qualified maintenance personnel
– The Airworthiness Checks expire after 72 hours from the end of the inspection if the helicopter has not flown
– The Airworthiness Checks do not replace the Rotorcraft Flight Manual requirements list, which must be performed by a pilot.

The next paragraphs report the summary of requirements necessary to accomplish an Airworthiness Check, only in the cases in which it is required by the Authorities.

1.3.1 Rotorcraft flight manual

1.3.1.1 Section 2 - Normal procedures

Any task identified in the "External pre-flight checks" and "Cockpit/Engine pre-start checks" has to be included, with a daily periodicity.

1.3.1.2 Section 5 - Optional equipment supplements

Section 2 inside each Optional Equipment Supplement, with regard to "External pre-flight checks" and "Cockpit/Engine Pre-start checks" must be included, if the relevant optional equipment is installed. These tasks must be included with a daily periodicity.

1.4 Standards and procedures

The maintenance requirements have been essentially established based on an analysis (hereinafter referred to as CMAP analysis) performed by Manufacturer in accordance with the requirements identified in the Document 609-999-004 Policy and Procedure Handbook - Maintenance/ Inspection Requirements Development (Bell).

Additional inspection requirements have been derived based on a specific analysis (the Environmental Damage Analysis), which has been performed for all helicopter Structural Significant Items (SSIs), and from various data sources, such as Safety Assessments and Component Maintenance Manuals (CMMs).

1.5 Operational environment / utilization

Unless otherwise specified, the maintenance tasks and intervals identified in this document assume that the helicopter may be operated in an off-shore environment where contamination with salt, leading to the increased risk of corrosion, is likely to be experienced. Apart from this potential contaminant, it is assumed that the helicopter is operated in a clean air environment, free from any significant industrial pollutants.

Should the helicopter be operated in a dirty environment, with significant levels of industrial pollutants, additional inspections and maintenance tasks may become necessary.

The intervals of the tasks identified in this chapter are applicable to both a high and low utilization of the helicopter (i.e. they are not dependent upon any particular level of utilization). However, should an individual helicopter be withdrawn from service and placed into storage for an extended period of time, the tasks and intervals contained in this report may need to be modified in light of both the storage conditions which apply and the length of time for which the helicopter is expected to be out of use.

1.6 Inspection program

WARNING

All parts removed because they have reached their limits or as a result of a post accident/ incident inspection during which they are deemed to be not airworthy, shall be permanently marked as scrap or physically destroyed to the extent that there is no chance of repair or installation on another helicopter or component.

Refer to the table of contents (05-TOC) of this chapter for the complete inspection program applicable to the AW139 helicopter.

The Maintenance Tasks Overview section (39-A-05-21-00-00A-028E-P) included in this chapter contains an overview of the maintenance program and is intended as a reference.

Permitted inspection/check interval tolerances

General

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Table 1 References

Data module/Technical publication	Title
No references	

Description

1 Permitted inspection/check interval tolerances

This sub-section gives the permitted inspection/check interval tolerances for the scheduled maintenance checks in the manual.

2 Tolerance rules

Unless specified differently, the tolerances for the scheduled inspections/checks are as follows:

– Hourly interval - Ten percent (10 %) or 50 hours maximum whichever is less
– Calendar interval - Ten percent (10 %) or 30 days maximum whichever is less
– Landings interval - Ten percent (10 %) or 100 landings maximum whichever is less.

When an inspection/check is postponed with respect to the prescribed schedule, always within the maximum allowable tolerance, subsequent intervals will be computed as per the original schedule and related tolerance. Examples:

– Task limit: 100 FH. Maximum tolerance: 10 FH. If the inspection is conducted at 105 FH, the subsequent one must be performed as per original schedule at 200 FH (+ 10 FH)
– Task limit: 24 months. Maximum tolerance: 30 days. If the inspection is conducted at 25 months, the subsequent one must be performed as per original schedule at 48 months (+ 30 days)
– Task limit: 2000 landings. Maximum tolerance: 100 landings. If the inspection is conducted at 2100 landings, the subsequent one must be performed as per original schedule at 2000 landings (+ 100 landings).

When an inspection/check is anticipated with respect to the prescribed schedule, subsequent intervals will be conducted, according to the schedule, starting from the actual time (hours or calendar date) the inspection/check was performed. Examples:

– Task limit: 100 FH. Maximum tolerance: 10 FH. If the inspection is conducted at 85 FH, the subsequent one must be performed 185 FH (+ 10 FH)
– Task limit: 24 months. Maximum tolerance: 30 days. If the inspection is conducted at 23 months, the subsequent one must be performed at 47 months (+ 30 days).
– Task limit: 2000 landings. Maximum tolerance: 100 landings. If the inspection is conducted at 1900 landings, the subsequent one must be performed as per original schedule at 3900 landings (+ 100 landings).

The above tolerance is established for maintenance scheduling convenience only and must be approved by the governing civil aviation authority. Concurrence and final approval of the inspection/check interval tolerance by the governing civil aviation authority is the responsibility of the owner/operator.

Table 2 List of components

NOT APPLICABLE DUE FITTED WITH CO62-01 - TBO 2400FH

Ref	Component	Part number	Overhaul interval
CO33-04	Deleted		
CO62-01	Main rotor damper	3G6220V01351	2400
CO62-02	Main rotor slip ring	4G6220V00151	1500 RH (Note 9)
CO62-03	Main rotor damper	3G6220V02051	3000
CO63-01	Main gearbox assembly	3G6320A00132	5000 (Note 17)
CO63-02	Deleted		
CO63-03	Deleted		
CO63-04	Drive shaft	3G6310V00151	6000
CO63-05	Lubricating pump	3G6320V04252	5000
CO63-06	Main gearbox oil cooling fan	3G6320V03853	1200
CO63-07	Main gearbox assembly	4G6320A00132	5000
CO63-08	Deleted		
CO63-09	Lubricating pump assembly	3G6320A18731	6000
CO63-10	Rotor brake actuator	3G6352V02452	33000 landings
CO63-11	Deleted		
CO63-12	Improved main gearbox assembly	3G6320A22031	6000
CO63-13	Main gearbox oil cooling fan	3G6320A11231	3600
CO64-01	Tail rotor slip ring capsule assembly	4G6420V00151	1200
CO64-02	Deleted		
CO65-01	Bearing support assembly	3T6510A00442	5000
CO65-02	Intermediate gearbox	3T6521A00146	7500
	Intermediate gearbox	3T6521A00231	7500
CO65-03	Tail gearbox	3T6522A00239	7500
CO65-04	Flexible coupling	3T6510V00152	7500
CO65-05	Flexible coupling	4G6510V00151	7500
CO65-06	Deleted		
CO67-01	Main rotor actuator	3G6730V00531	3000
CO67-02	Tail rotor actuator	3G6730V00731	3000
CO71-01	Left main panel (engine inlet particle separator system)	3G7160V02551	1800
	Right main panel (engine inlet particle separator system)	3G7160V02651	1800
CO71-02	Deleted *Shut off valve (2 off) PN 3G7160V01451 TBO 10000FH REMOVED and Transfer to DT 71-04* *ICE DETECTION SYSTEM*		

Table 2 List of components

Ref	Component	Part number	Discard time
DT31-03	ELT battery pack	452-0133	The battery must be replaced after use in an emergency, or inadvertent activation of unknown duration, or when the total of all known transmission exceeds 1 hour
DT31-04	MPFR underwater beacon battery kit	810-2008/K 810-2042 (Note 4)	Replacement time identified on underwater beacon label
DT31-05	Clock battery (Clock LC-8 part numer AT6701N2)	CR1200 size	1 year
DT31-06	QAR battery *Not Applicable*	D51640-0001 (Note 17)	10 years
DT32-01	Elastic cable (main landing gear slump pads)	3G3271V00351	3 years
DT32-02	Elastic cable (nose landing gear slump pad and main landing gear snow skids)	3G3271V00251	3 years
DT32-03	Elastic cable (nose landing gear snow skid)	3G3271V00151	3 years
DT33-01	Emergency exit lighting battery pack	3G3350A01811	3 years (Note 10)
DT33-02	Deleted		
DT33-03	SX5 search light gimbal	IN10-10-72	10 years
DT33-04	Deleted		
DT33-05	Deleted		
DT34-01	TCAS blindmate antenna system	OE5669-139	4 years
DT56-01	Seal rubber and filler cockpit emergency exit	999-1700-48-101G 999-1700-49-101G 999-1700-48-101W 999-1700-49-101W	4 years (Note 20)
DT56-02	Seal rubber and filler cabin emergency exit	A417AF001WB A417AG002WB A417AG002TB	4 years (Note 20)
DT62-01	Main rotor slip ring	4G6220V00151	3000 RH
DT62-02	Bolts and nuts attaching main rotor slip ring to the stator assembly	AN3-5 MS17825-3	Bolts and nuts must be replaced with M/R slip ring assembly disassembly
DT62-03	Bolts M/R fips slip ring assembly installation	NAS6605HL6	Bolts must be replaced at each M/R slip ring removal
DT63-01	Deleted		
DT63-02	Rotor brake disk	3G6351V00551	Task to be performed every two pads replacements or after the emergency braking activation
DT63-03	MGB gimbal support assembly	3K6320A01131	46000 FH
DT63-04	MGB input shaft and coupling	3G6310V00151	23500 landings (Para 4 - External Load Operation)
DT63-05	Fan impeller assembly (part of the MGB oil cooling fan P/N 3G6320A11231)	MQ6320A00131 (Note 17)	12000 FH
DT64-01	Deleted		

Table 2 List of components

Ref	Component	Part number	Discard time
DT64-02	Deleted		
DT64-03	Tail rotor duplex bearing	3G6430V00151	3000 FH
DT64-04	Tail rotor slip ring capsule bearing	N/A	1200FH (Note 17) (Note 19)
DT64-05	Tail rotor slip ring drive	4G6420A02751	150 FH
DT65-01	Deleted		
DT71-01	Bellows (engine breather air tube)	3G7130V00152	40000 FH
DT71-02	IBF upper filter assy	122300-101	After 15 cleaning cycles
DT71-03	IBF lower filter assy	122350-101	After 15 cleaning cycles
DT71-04	Shut off valve (2 off)	3G7160V01451 N/A	10000 FH ICE DETECTION SYSTEM deleted from CO71-02 and become DT 71-04
DT95-01	Forward left float bag (Aerosekur)	3G9560V00651	15 years (Note 3)
DT95-02	Forward right float bag (Aerosekur)	3G9560V00751	15 years (Note 3)
DT95-03	Aft left float bag (Aerosekur)	3G9560V00851	15 years (Note 3)
DT95-04	Aft right float bag (Aerosekur)	3G9560V00951	15 years (Note 3)
DT95-05	Pressure vessel (Note 5) (Aerosekur)	C17864-001	15 years (Note 3)
DT95-06	Deleted		
DT95-07	Pyrotechnic protractor (Aerosekur)	Note 6	As indicated on label
DT95-08	Pressure vessel (Note 8) (Aerosekur)	P-F20006	15 years (Note 3)
DT95-09	Forward left float assembly (Aérazur)	3G9560V02131	15 years (Note 3)
DT95-10	Forward right float assembly (Aérazur)	3G9560V02231	15 years (Note 3)
DT95-11	Aft left float assembly (Aérazur)	3G9560V02331	15 years (Note 3)
DT95-12	Aft right float assembly (Aérazur)	3G9560V02431	15 years (Note 3)
DT95-13	Forward left rigid cover (Aérazur)	3G9560V03751	15 years (Note 3)
DT95-14	Forward right rigid cover (Aérazur	3G9560V03851	15 years (Note 3)
DT95-15	Aft left rigid cover (Aérazur)	3G9560V03951	15 years (Note 3)
DT95-16	Aft right rigid cover (Aérazur)	3G9560V04051	15 years (Note 3)
DT95-17	Inflation system (cylinder) (Aérazur)	3G9560V02051	15 years (Note 3)
DT95-18	Deleted		
DT95-19	Flashlight battery (DART)	Type - AA	5 years (Note 24)
DT95-20	Battery pack (Personal Locator Beacon) (DART)	A01299	5 years (Note 24)
DT95-21	Float reservoir assy (DART)	3G9560V04951	15 years (Note 3)
DT95-22	Liferaft left reservoir assy (DART)	3G2560V01251	15 years (Note 3)
DT95-23	Liferaft right reservoir assy (DART)	3G2560V01951	15 years (Note 3)

Notes

1 This component is a part of the crash position indicator beacon. Refer to this next higher assy for scheduled replacement of battery.

2 Deleted

3 The discard time is from the date of manufacture.

Table 2 List of requirements for general visual checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
			WORK AREA 01 HELICOPTER NOSE				
01-01	Brake reservoir	Do a GVI for contents and correct oil level	50	BWKL/50	BWKL/50	N/A	SMC
01-02	Main and auxiliary batteries	Do a GVI 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 of bundles and condition, safety and security of connectors	1 year	1 year	1 year	N/A	SMC
			300h/1y now become 1Y inspection - Aeronet Task Template ID# 19 removed from 300H/1Y to 1Y Insp				
01-03	Air Data Modules (ADM)	Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors	1 year	1 year	1 year	N/A	SMC
			300h/1y now become 1Y inspection - Aeronet Task Template ID# 20 removed from 300H/1Y to 1Y Insp				
01-04	Modular Radio Cabinets (MRC)	Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors (task applies to all connectors of both the MRCs)	1 year	1 year	1 year	N/A	SMC
			300h/1y now become 1Y inspection - Aeronet Task Template ID# 21 removed from 300H/1Y to 1Y Insp				
01-05	K1 and K2 relays (300 A)	Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors	1 year	1 year	1 year	N/A	SMC
			300h/1y now become 1Y inspection - Aeronet Task Template ID# 22 removed from 300H/1Y to 1Y Insp				

Table 3 List of requirements for scheduled / unscheduled maintenance checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
31-08	ELT	Servicing by replacement of ELT battery	The battery must be replaced after use in an emergency, or inadvertent activation of unknown duration, or when the total of all known transmission exceeds 1 hour	The battery must be replaced after use in an emergency, or inadvertent activation of unknown duration, or when the total of all known transmission exceeds 1 hour	The battery must be replaced after use in an emergency, or inadvertent activation of unknown duration, or when the total of all known transmission exceeds 1 hour	39-A-25-61-05-00A-921B-K	UMC
31-09	Deleted						
31-10	MPFR	Do an OC to verify that the underwater locator beacon operates correctly	6 months [23]	6 months [23]	6 months [23]	39-A-31-31-07-00A-340A-A	UMC
31-11	MPFR	Do the mechanical inspection and verification test	6 years [43]	6 years [43]	6 years [43]	[31]	SMC
32-01	MLG shock absorber (Liebherr landing gear installation)	Do a FC for quantitative check of shock absorber pressure	600/1 year [3] *Aeronet updated 02/02/2021*	600/1 year [3]	Pr 200	39-A-32-10-00-00A-028A-A	SMC
32-02	MLG assembly and retraction actuators (Liebherr landing gear installation)	Do a GVI for condition, security and damage including electrical connector, microswitches and wiring	600/1 year [3]	600/1 year [3]	Pr 200	39-A-32-10-00-00A-310A-A 39-A-32-31-00-00A-310A-A	SMC
32-03	Main landing gear (Liebherr landing gear installation)	Lubrication of trailing arm pivoting point	1 year	1 year	1 year	39-A-12-20-06-00A-242A-A	SMC
32-04	MLG trunnion bracing bolts (Liebherr landing gear installation)	Do a DI for evidence of loosening of bracing tube/support (through check of sealant integrity)	1 year	1 year	1 year	39-A-32-10-00-00A-31AA-A	SMC
32-05	NLG shock absorber (Liebherr landing gear installation)	Do a FC for quantitative check of shock absorber pressure	600/1 year [3] *Aeronet updated 2/2/21*	600/1 year [3]	Pr 200	39-A-32-20-00-00A-028A-A	SMC

Table 3 List of requirements for scheduled / unscheduled maintenance checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
34-05	TCAS antenna	Do a DI to detect any evidence of dirt, black powder, foreign material and dents of the connectors	1 year [26]	1 year [26]	1 year [26]	39-A-34-44-05-00A-31AA-K	SMC
45-01	Deleted						
46-01	PDF/MFD reversionary switches	Do an OC to detect dormant failure of reversionary switch function	1200	1200	1200	39-B-31-61-00-00A-320C-A	SMC
52-01	Nose landing gear doors installation	Do a DI to detect free play, wear or other mechanical malfunctions	600/1 year [3]	600/1 year [3]	Pr 300	39-A-52-81-00-00A-31AA-K	SMC
52-02	Deleted						
52-03	Cockpit door emergency release mechanisms	Examine the mechanism for condition and corrosion. Do an operational check of emergency release mechanisms for correct operation	1 year	1 year	1 year	39-A-52-17-00-00A-320A-K	SMC
52-04	Cabin Passenger doors locking system	Do a FC	1200	1200	1200	39-A-52-12-01-01A-340A-A	SMC
		NEW TASK INSERTED IN 1200FH INSPECTION 02/02/2021 TEMPLATE ID 23356					
53-01	NLG right bracket	Do a DI for corrosion and condition	2 years	2 years	2 years	39-A-53-10-00-00A-31AC-A	SMC
53-02	NLG left bracket	Do a DI for corrosion and condition	2 years	2 years	2 years	39-A-53-10-00-00A-31AC-A	SMC
53-03	NLG retract actuator bracket	Do a DI for corrosion and condition (boroscope may be required)	4 years	4 years	4 years	39-A-53-10-00-00A-31AN-A	SMC

Table 3 List of requirements for scheduled / unscheduled maintenance checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
62-46	Main rotor slip ring assembly installation	Do a GVI of the attaching bolts with the main rotor hub for condition and security	Opportune with any beanie removal	Opportune with any beanie removal	Opportune with any beanie removal	39-B-62-21-04-00A-310A-A	UMC
62-47	Deleted						
62-48	Main rotor tension link	Do a DI for presence of cracks of the droop stop support	50	BWKL/50	BWKL/50	39-A-62-22-00-00A-31AK-A	SMC
62-49	Main rotor assembly	Do a DI of the anti-rotation block for wear, including the damper special washer. (Dimentional check and compliance with allowable limits is required)	100	BWKL/50 [16]	BWKL/50 [16]	39-A-62-22-07-00A-31AB-A	SMC
62-50	Main rotor damper spherical bearings	Do a DI for alignment of slippage marks and for sealant integrity on the staking and ceramic coating damage of eye end assy and body end assy spherical bearings	100 [58]	BWKL/50 [16] [58]	BWKL/50 [16] [58]	39-A-62-22-02-01A-31AA-A	SMC
62-50 A	Main rotor damper	Do a DI for alignment of slippage mark between the damper body and the damper body end locking ring	100 [66]	BWKL/50 [16] [66]	BWKL/50 [16] [66]	39-A-62-22-02-02A-31AA-A	SMC
			INSERTED IN 100FH INSPECTION 02/02/2020 - NEW TASK *NOTE 66: TASKS APPLICABLE ONLY TO MAIN ROTOR DAMPER P/N 3G6220V02051*				
62-51	Main rotor damper spherical bearings	Do a FC to check that bearing friction is within allowable limits	100 [58]	BWKL/50 [16] [58]	BWKL/50 [16] [58]	39-A-62-22-02-01A-340A-A	SMC
62-52	Deleted						

Table 3 List of requirements for scheduled / unscheduled maintenance checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
64-37	Tail rotor slip ring harnessed brush block and connector	Do a DI for condition, damage, sign of overheating and brushes wear. (slip ring harnessed brush block and connector removal is required)	400	400	400	39-B-64-21-05-01A-31AA-A	SMC
64-38	Tail rotor installation	Do a GVI of tail rotor installation components	50	50	50	39-A-64-21-00-00A-310A-A	SMC
			New Task inserted in 50FH Inspection Task ID 23358				
65-01	Deleted						
65-02	Deleted						
65-03	Deleted						
65-04	Deleted						
65-05	Deleted						
65-06	Mounting bearing support bracket [27] [28]	Do a DI for corrosion and condition	4 years	4 years	4 years	39-A-65-11-11-00A-31AA-B 39-B-65-11-11-00A-31AA-B	SMC
65-07	Bearing support bracket, including lower spherical bearings and associated joint bolts [27][28]	Do a DI for corrosion and condition (bearing support bracket removal required)	4 years	4 years	4 years	39-A-65-11-11-00A-31AA-B 39-B-65-11-11-00A-31AA-B	SMC
65-08	Forward splined shaft [27][28]	Do a DI for corrosion and condition (removal required)	4 years	4 years	4 years	39-A-65-11-11-00A-31AA-B 39-B-65-11-11-00A-31AA-B	SMC
65-09	Aft splined shaft [27] [28]	Do a DI for corrosion and condition (removal required)	4 years	4 years	4 years	39-A-65-11-11-00A-31AA-B 39-B-65-11-11-00A-31AA-B	SMC
65-10	Deleted						

Table 3 List of requirements for scheduled / unscheduled maintenance checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
91-12	Electrical clipping bonded inside tail boom in flight control area	Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task)	2 years	2 years	2 years	39-A-91-10-00-00A-320C-A	SMC
91-13	Avionic connectors in the nose radome	Do a GVI to detect corrosion or mechanical damage of bundles and connectors of MAU 1, MAU 2 and AHRS, for condition, safety and security	1 year	1 year	1 year	39-A-91-10-00-00E-310A-A	SMC
93-01	FLIR Wescam MX15	Do a GVI to check that the desiccant humidity indicator is not showing a lavender (pink) color	Prior and after each flight	Prior and after each flight	Prior and after each flight	39-A-93-53-01-00A-310A-K	UMC
93-02	OPLS laser sensors	Do a GVI for opacification of the lens, clean then dry with a lint free cloth. including the supports for correct installation and security of attachment	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	39-A-93-62-00-00A-310A-K	UMC
93-03	OPLS laser sensors	Do a GVI of the plastic surfaces for discolorations and environmental damage	6 months	6 months	6 months	39-A-93-62-00-00B-310A-K	UMC
93-04	OPLS laser sensors supports	Do a GVI for cracks, correct installation and security of attachment	300	Ph 2	Pr 200/500	39-A-93-62-00-00C-310A-K	SMC

Template ID 550 under 450H/18M Inspection move to 1Y Inspection
Aeronet updated 02/02/2021

Table 3 List of requirements for scheduled / unscheduled maintenance checks

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
62	Tasks applicable only to MGB oil cooling fan P/N 3G6320V03853.						
63	Tasks applicable only to MGB oil cooling fan P/N 3G6320A11231.						
64	If average ITT Power Assurance Margin of last three power checks is < 10°C or average NG Power Assurance Margin of last three power checks is < 0.5%, the task must be performed daily.						
65	Refer to Rotorcraft Flight Manual (RFM) for task procedure. Both CAT A and CAT B procedures may be used to perform this task.						
66	Tasks applicable only to main rotor damper P/N 3G6220V02051						

Aeronet updated inside task 100FH Insp 62-50A

Table 4 List of requirements - Rescue hoist system (Breeze)

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
25-03	Rescue hoist system circuit breakers (CB87 and CB88)	Do an OC to detect dormant open circuit failures (fault finding task)	300	Ph 1	Pr 100/400	39-A-25-91-00-00A-320B-K	SMC
25-04	Rescue hoist system cable cut switch guard and push-button contacts	Do an OC to detect dormant open circuit failures (fault finding task)	300	Ph 4	Pr 100/400	39-A-25-91-00-00A-320B-K	SMC
25-05	Rescue hoist system armed relays (K58 and K59) and trigger relays (K60 and K61)	Do an OC to detect dormant open circuit failures (fault finding task)	300	Ph 1	Pr 100/400	39-A-25-91-00-00A-320B-K	SMC
25-06	Rescue hoist oil level sight and adjacent areas	Do a GVI to check for correct oil level (rescue hoist cowling removal required)	600/1 year [1]	600/1 year [1]	600/1 year [1]	39-A-25-91-01-00B-310A-K	UMC
25-06A	Rescue hoist	Do a GVI to check for any oil leakage. Remove rescue hoist cowling if required	Prior to the first use of the day	Prior to the first use of the day	Prior to the first use of the day	39-A-25-91-01-00A-364A-K	UMC

Table 5 List of requirements - Double rescue hoist system (Goodrich)

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
25-24A	Deleted	*(CB87 and CB88) task 300FH Insp Hoist Template ID 582 - removed from 300H Inspection Aeronet*					
25-25	Diodes D3 and D11 (hoist control panel) (Note 2)	Do an OC to detect dormant open circuit failures (fault finding task)	50	BWKL/50	BWKL/50	39-A-25-94-02-00A-320A-K	SMC
			NOTE 2: INSERTED IN TASK 25-25 50FH INSP - TEMPLATE ID 583 AMENDED				
25-25A	Diodes D3 and D11 (hoist control panel) (Note 3)	Do an OC to detect dormant open circuit failures (fault finding task)	400	400	400	39-A-25-94-02-00A-320A-K	SMC
			New Task Template ID 23359 inserted under 400FH Inspection				
25-26	Rescue hoist oil level sight and adjacent areas	Do a GVI to check for correct oil level and leaks	Prior to the first use of the day	Prior to the first use of the day	Prior to the first use of the day	39-A-25-94-01-00B-310A-K	UMC
25-27	Rescue hoist cable cutter electrical connections	Do a GVI to detect corrosion or mechanical damage of bundles. Connectors for condition, safety and security	300	Ph 1	Pr 100/400	39-A-25-94-01-00C-310A-K	SMC
25-28	Rescue hoist cable cutter	Do a GVI for condition and damage	1 year	1 year	1 year	39-A-25-94-01-00D-310A-K	SMC
25-28A	Hoist operator harness and tether	Do a GVI for condition and damage	120 days	120 days	120 days	39-A-25-94-01-00D-310A-K	SMC
25-29	Rescue hoist boom attaching bolts	Do a DI for condition (boom removal required). Task includes a GVI of rescue hoist attachment point on fuselage forward section	2 years	2 years	2 years	39-A-25-94-10-00A-31AA-K	SMC
25-30	Rescue hoist boom	Do a GVI for condition, security and damage. Task includes a GVI of adjacent fuselage area	Prior to the first use of the day	Prior to the first use of the day	Prior to the first use of the day	39-A-25-94-10-00A-310A-K	UMC

Table 5 List of requirements - Double rescue hoist system (Goodrich)

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
25-38	Rescue hoist	OC of the hook assembly bearing for freedom of rotation	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	39-A-25-94-00-00A-320B-K	UMC
25-39	Rescue hoist	GVI of the hook bumper assembly for damage and condition	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	39-A-25-94-01-00A-310A-K	UMC
25-40	Rescue hoist	Following use in a salt water environment, wash the cable and hook assembly with fresh water and dry using a clean, heavy duty lint-free cloth	After the last use of the day	After the last use of the day	After the last use of the day	39-A-25-94-01-00A-251A-K	UMC
25-44	Rescue hoist system cable cut switch guard and push-button contacts (Note 2)	Do an OC to detect dormant open circuit failures (fault finding task)	500	500	500	39-A-25-94-00-00A-320B-K	UMC
25-44A	Rescue hoist system cable cut switch guard and push-button contacts (Note 3)	Do an OC to detect dormant open circuit failures (fault finding task)	1600	1600	1600	39-A-25-94-00-00A-320B-K	SMC
25-46	Rescue hoist cable	Do a GVI of the maximum length of cable used during the day operation for damage and condition	After the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used	After the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used	After the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used	39-A-25-94-01-00A-310A-K	UMC
25-47	Rescue hoist	Do a DI of the hook spring pin	3 months	3 months	3 months	39-A-25-94-01-00A-31AB-K	UMC

Template ID: 592 under 500FH Inspection updated with Note 2 inserted NOTE 2: HELICOPTERS AW139 THAT HAVE THE RESCUE HOIST PART NUMBER 3G2591V01531.

1. New Inspection interval 1600FH Inspection generated in Aeronet for this new Task 25-45A (template ID2 3361)
2. AMP revision need to revise

Table 6 List of requirements - Single rescue hoist system (Goodrich)

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
25-31	Deleted	*(CB87 and CB88) task 300FH Insp Hoist Template ID 600 - removed from 300H Inspection Aeronet*					
25-32	Diode D3 (hoist control panel) (Note 2)	Do an OC to detect dormant open circuit failures (fault finding task)	50 *Task updated in Aeronet - 02/02/21*	BWKL/50	BWKL/50	39-A-25-96-03-00A-320A-K	SMC
25-32A	Diode D3 (hoist control panel) (Note 3)	Do an OC to detect dormant open circuit failures (fault finding task)	400 *New Task Template ID 23360 inserted under 400FH Inspection*	400 *Aeonet Updated 02/02/21*	400	39-A-25-96-03-00A-320A-K	SMC
25-33	Rescue hoist oil level sight and adjacent areas	Do a GVI to check for correct oil level and leaks	Prior to the first use of the day	Prior to the first use of the day	Prior to the first use of the day	39-A-25-96-01-00B-310A-K	UMC
25-34	Rescue hoist cable cutter electrical connections	Do a GVI to detect corrosion or mechanical damage of bundles. Connectors for condition, safety and security	300	Ph 1	Pr 200/500	39-A-25-96-01-00C-310A-K	SMC
25-35	Rescue hoist cable cutter	Do a GVI for condition and damage	1 year	1 year	1 year	39-A-25-96-01-00D-310A-K	SMC
25-35A	Hoist operator harness and tether	Do a GVI for condition and damage	120 days	120 days	120 days	39-A-25-96-01-00D-310A-K	SMC
25-36	Rescue hoist boom attaching bolts	Do a DI for condition (boom removal required). Task includes a GVI of rescue hoist attachment point on fuselage forward section	2 years	2 years	2 years	39-A-25-96-10-00A-31AA-K	SMC
25-37	Rescue hoist boom	Do a GVI for condition, security and damage. Task includes a GVI of adjacent fuselage area	Prior to the first use of the day	Prior to the first use of the day	Prior to the first use of the day	39-A-25-96-10-00A-310A-K	UMC

Table 6 List of requirements - Single rescue hoist system (Goodrich)

No	Item	Task	Condition / limit Standard	Condition / limit Phased	Condition / limit Progressive	Reference (DMC)	Section
25-41	Rescue hoist	OC of the hook assembly bearing for freedom of rotation	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	39-A-25-96-00-00A-320B-K	UMC
25-42	Rescue hoist	GVI of the hook bumper assembly for damage and condition	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	After the last flight of the day or before the first flight of the day	39-A-25-96-01-00A-310A-K	UMC
25-43	Rescue hoist	Following use in a salt water environment, wash the cable and hook assembly with fresh water and dry using a clean, heavy duty lint-free cloth	After the last use of the day	After the last use of the day	After the last use of the day	39-A-25-96-01-00A-251A-K	UMC
25-45	Rescue hoist system cable cut switch guard and push-button contacts (Note 2)	Do an OC to detect dormant open circuit failures (fault finding task)	500 *Template ID 611 amended under 500H Insp - NOTE 2: HELICOPTERS AW139 THAT HAVE THE RESCUE HOIST PART NUMBER 3G2591V01531.*	500	500	39-A-25-96-00-00A-320B-K	UMC
25-45A	Rescue hoist system cable cut switch guard and push-button contacts (Note 3)	Do an OC to detect dormant open circuit failures (fault finding task)	1600 *1. New Inspection interval 1600FH Inspection generated in Aeronet for this new Task 25-45A (template ID2 3362)* *2. AMP revision need to revise*	1600	1600	39-A-25-96-00-00A-320B-K	SMC
25-49	Rescue hoist cable	Do a GVI of the maximum length of cable used during the day operation for damage and condition	After the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used	After the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used	After the last flight of the day or before the first flight of the day if the rescue hoist is used or it is envisaged to be used	39-A-25-96-01-00A-310A-K	UMC
25-50	Rescue hoist	Do a DI of the hook spring pin	3 months	3 months	3 months	39-A-25-96-01-00A-31AA-K	UMC

Table 2 Conditional inspections requirements

No	Event	Reference (DMC)	Initials
1-22	Loss of tail rotor blade heating (TR FAIL)	39-A-00-70-00-22A-28AA-A	
1-23	Dust devil atmospheric event	39-A-00-70-00-23A-28AA-A	
Note	*covered under AMP section F2*		
	1 Repeat the GVI of the two MGB input modules to detect leakages from the rotating seals every 10 FH until next 50 FH.		

End of Data Module