DISCREPANCY REPORT AIRCRAFT TYPE: REG. NO: DR. NO: BTS SOURCE REFERENCE: DATE RAISED: CHECK TYPE: WORK ORDER (JCN): LB2015BOB (TSN/TSO) NO.2 ENG 2948-C DISCREPANCY NF HRS 2948 00 NO.1 ENG 2948.00 BT1096P-143 DTD 25 MARCH 2015- TAIL D/N: 109-8412-02-01 SND 3. DATE: 2/4/15. RAISED BY: AGIKAH GAMED SIGN & STAMP: DISPOSITION BT 109EP-143 DTD 25 WARCH 2015, TAIL ROTOR DRIVE SHAFF P/N 109-8412-02-59 AND 03. TO BE COMPLY. SIGN: WK DATE: 2/4/15 STAMP: MHP: MHA: CUST. APP. MATERIAL COST: SIGNATURE: CORRECTIVE ACTION MECH LAE/AH & DATE BT 109512 143 DTD 25 MARCH 2015 TAL ROTOR DRIVE SHAFT P/N 189-8412-02-1 AND -3 INSPECTION ARRIED OUT, WILLIED AND NIL CRACK FOUND, SATISFACTORY 465 ASB COMPONENT/ PART CHANGE PART NO. DESCRIPTION S/NO. ON S/NO. OFF QTY. BATCH NO.

DUPLICATE / RII / CRITICAL TASK

900 2/4/15 ASB 2/4/15 First Insp. Sign / Stamp / Date

Second Insp. Sign / Stamp / Date

The work recorded above has been carried out in accordance with the requirements of the for the time being in force and in that respect, the aircraft / equipment is considered fit for release to service.



Appendix 7.1 to SAMO-04-027 Issue 1 Rev 0

								Issue 1 Rev (
1. Doc. Control No. 1513-1/206	DUPLICATE INSPECTION CERTIFICATE (Inspection of Vital Points and/or Controls)					DE 2-15-1		
DUPLICATE INSPECTABLE All licensed engineer MOE 2-15-1 on the authority, before a Control Duplicate Inspectional locking devices made movement and correspond to the control of the contro	rs or Company A ircraft and engine ertificate of Relea is ensure that the de safe iaw the	e control systence see to Service system affect approved pro	ms and for an a ed by n cedures	vital points ircraft or en naintenance s and that	as spengine is the have the co	cified by the rissued. been assembl	ion is pelevant	erformed iaw airworthiness adjusted and
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5. DESCRIPTION	(SYSTEM):	35				348		
Duplicate Inspection MOE 3-4 (as revised			/ARNII author		nnel wi	th valid/curre	ent certi	fication law
		ASSO	CIATE	D WITH				
6. SHOP	INSTRUCTION	<u>NS</u>	7.	MAIN	ITENA	NCE ACTIO	N FOR	M
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for correct assemb	y, locking and t	full, free and	correc	t directions	al mov	ement.		
Duplicate Inspection A6-2, Paragraph 10		ein carried ou	ut as p	er MOE 2-	15-1 8	BCAR Sect	ion 'A',	Chapter
1	ST INSPECTOR					2ND INSPEC	TOR	
9. <u>NAME:</u>		9d. AH/LAN STAMP/NO		10. NAM	FM.	(N)		AH/LAME AMP/NO.
9a. SIGNATURE:				10a. SIG	NATU	RE: (

10b. DATE:

10c. TIME:

1130.

9b. DATE: >

9c. TIME: & 1100

15



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BOLLETTINO TECNICO

The technical content of this document is approved under the authority of DOA nr EASA.21J.005.

_N 109EP-143

DATE March 25th, 2015

REV.

Compliance with this bulletin is:

MANDATORY

SUBJECT: TAIL ROTOR DRIVE SHAFT P/N 109-8412-02-1 and -3.

REASON: Provide the necessary instructions to inspect the tail rotor drive shaft assy P/N 109-8412-02-1 and -3 for cracks.

HELICOPTERS AFFECTED:

All the AgustaWestland A109E helicopters.

COMPLIANCE:

Within and not later than 50 flight hours or 3 months after the date of issuance of this Bollettino Tecnico.

DESCRIPTION:

During a scheduled servicing on an A109S three cracks have been found on the tail rotor drive shaft assy P/N 109-8412-02-1.

Cracks are not related to fatigue failure of the shaft subject to the design loads.

As a precautionary measure AgustaWestland has issued this Bollettino Tecnico to prescribe a "one time" tail rotor drive shaft inspection for cracks within the time allowed in the "COMPLIANCE" paragraph.

REQUIRED MANPOWER:

An estimated 9 manpower hours are required for compliance with this Bollettino.

WARRANTY:

Owners/Operators who comply with the instructions of this Bulletin, no later than the applicable date in the "Compliance section" will be eligible to receive REQUIRED MATERIALS on free of charge basis.

NOTE: Customers who fail to comply with the instructions in this bulletin before the compliance date are not eligible for the aforementioned special policy.

An appropriate entry should be made in the aircraft log book upon accomplishment. If ownership of aircraft has changed, please, forward to new owner.

B.T. 109EP-143

Please Issue relevant M.M.I.R. form ((M)aintenance (M)alfunction (I)nformation (R)eport) to your Warranty Administration Dpt.

REQUIRED MATERIALS:

The following materials may be required to apply this Bollettino if the prescribed inspection gives negative results:

P/N	DENOMINATION	Q.TY
109-8412-02-1	TR drive shaft assy	A.R.
109-8412-02-3	TR drive shaft assy	A.R

The following consumable material is required to apply this Bollettino:

SPECIFICATION	<u>DENOMINATION</u>	Q.IY
TT-N-95	Aliphatic Naphtha	A.R.
Ty 2	(Code.531055030)	
MIL-C-16173D	Corrosion inhibitor	A.R.
Grade 2 CL 2	(Code 9999999900000194)	

SPECIAL TOOLS:

Magnifying glass 5X

WEIGHT AND BALANCE CHANGES:

N.A.

REFERENCES:

A 109 E Maintenance Manual

PUBLICATIONS AFFECTED:

N.A.

COMPLIANCE INSTRUCTIONS:

- 1. Prepare the helicopter on ground for a safe maintenance and disconnect any power supply, in accordance with the instructions given in the A 109 E Maintenance Manual.
- 2. Gain access to the tail rotor drive shaft opening all the necessary doors and panels in accordance with the instructions given in the A 109 E Maintenance Manual.
- 3. Remove both tail rotor drive shaft assemblies P/N 109-8412-02-1 and -3 in accordance with the instructions given in the A 109 E Maintenance Manual.
- 4. Perform the inspection of the tail rotor drive shafts for cracks as follows:
 - 4.1. Clean the components of the tail rotor drive shaft installation with the clean Cloth and the Aliphatic naphtha.

4.2. Dry with filtered compressed air.

CAUTION

Apply the Corrosion inhibitor to the tail rotor drive shaft components if you do not do the inspection immediately after their removal and cleaning.

- 4.3. Examine the external surface of the Tail rotor shaft P/N 109-8412-02-1 and -3 for cracks with the help of the Magnifying glass 5X and a source of light.
- 5. If no cracks are found reinstall the TR drive shaft in accordance with the instructions given in the A 109 E Maintenance Manual and go to step 7.
- 6. If cracks are found replace the TR drive shaft assy P/N 109-8412-02-1 and/or -3 (depending of inspection results) with a new one in accordance with the instructions given in the A 109 E Maintenance Manual.
- 7. Reinstall all the panels and close all the doors removed or opened in the step 2.
- 8. Return the helicopter to a ready to flight condition.
- 9. Send the attached compliance form to the following email box: Aw109.mbx@agustawestland.com.

 As an alternative, gain access to My Communications section on Leonardo Web Portal on AW website and compile the "Technical Bulletin Application Communication.

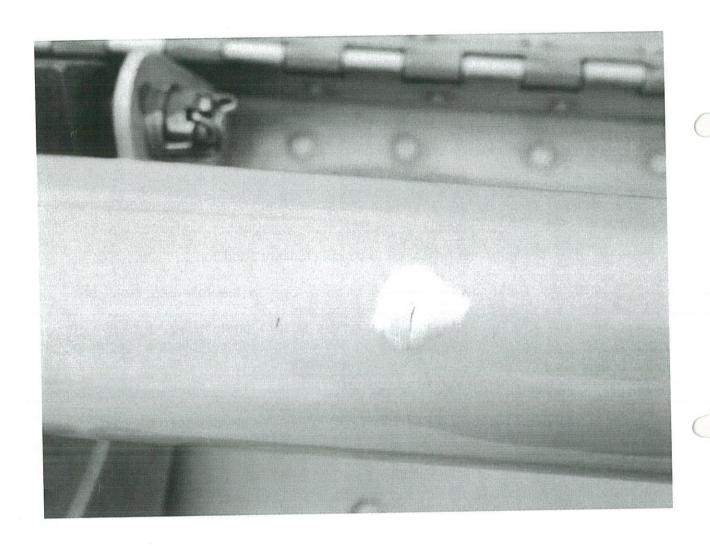


FIGURE 1 (Crack Example)



Data: Prego spedire a questo indirizzo: MODULO APPLICAZIONE BOLLETTINO TECNICO Date: Please send to the following address: TECHNICAL BULLETIN COMPLIANCE FORM AGUSTAWESTLAND S.p.A. Numero: **CUSTOMER SUPPORT & SERVICES - ITALY** PRODUCT SUPPORT ENGINEERING DPT. Via del Gregge, 100 21015 Lonate Pozzolo (VA) - ITALY Revisione: Revision: Tel.: +39 0331 664905 Fax: +39 0331 664684 Telefono: Telephone: Denominazione Cliente ed Indirizzo: Customer Name and Address: Fax: Data Applicazione B.T.: B.T. Compliance Date: Ore D.U.R. Ore Totali Matricola Modello Elicottero S/N Tail Number T.S.O. Helicopter Model Note: Remarks:

Informazioni:

Al fine di gestire le varianti alla configurazione base, in relazione all'emissione del Bollettino Tecnico, preghiamo di voler compilare il presente modulo in tutte le sue parti e spedirlo all'indirizzo sopra indicato. Si ringrazia per la gentile collaborazione data.

We request your cooperation in filling this form, in order to keep out statistical data relevant to aircraft configuration up-to-date. The form should be filled in all its parts and sent to the above address. We thank you beforehand for the information given.