




BASE MAINTENANCE RELEASE CERTIFICATE

BMR
0519

Aircraft Registration: 9M-PEC

AIRCRAFT DETAILS			
	Airframe	Engine	Propeller
Type/Model:	BELL 429	L: PW 207 01 R: PW 207 01	L: R:
Serial No:	57060	L: PCE-BL0133 R: PCE-BL0134	L: R: N/A
TSN:	1803 9	L: 1803 9 R: 1803 9	L: R:

BASE MAINTENANCE DETAILS	
WO No.: <u>GAM-WO-19-469</u>	Date Issued: <u>08/08/19</u>
Check Completed: <u>1) 12 MTH AF INSP.</u> <u>2) 12 MTH ENG INSP.</u> <u>3) 100 HRS / 12 MTH INSP.</u> <u>4) 200 HRS / 12 MTH INSP.</u> <u>5) 400 HRS / 12 MTH INSP.</u>	Date Completed: <u>02/10/19</u>
Location: <u>SAS HANGAR, SUBANG</u>	

CERTIFICATION	
I hereby certified that the work recorded above has been carried out in accordance with the requirements of the Malaysian Civil Aviation Regulations for the time being in force and in that respect the aircraft/equipment is considered fit for release to service	
Signature:	
Name:	<u>HAIRI SEEN MAT</u>
Approval No:	<u>020</u>
Date:	<u>02. 10. 2019</u>

Next Base Maintenance:	Due At:	
	Hours	Date
<u>3 YEAR INSP.</u>	<u>-</u>	<u>21/06/20</u>
(whichever is the sooner)		

WHITE: Log Book

YELLOW: AMO

PINK: CAMO



BASE MAINTENANCE RELEASE CERTIFICATE

BMR
0519

Aircraft Registration: 9M-PEC

AIRCRAFT DETAILS			
	Airframe	Engine	Propeller
Type/Model:	BELL 429	L: PW 207 D1 R: PW 207 D1	L: R:
Serial No:	57060	L: PCE-BL0133 R: PCE-BL0134	L: R:
TSN:	18037	L: 18037 R: 18037	L: R:

BASE MAINTENANCE DETAILS	
WO No.:	GAM-WO-19-469
Date Issued:	08/06/19
Check Completed:	1) 12 MTH AF INSP. 2) 12 MTH ENG INSP. 3) 100 HRS / 12 MTH INSP. 4) 200 HRS / 12 MTH INSP. 5) 400 HRS / 12 MTH INSP.
Date Completed:	02/10/19
Location:	SAS HANGAR, SUBANG

CERTIFICATION	
I hereby certified that the work recorded above has been carried out in accordance with the requirements of the Malaysian Civil Aviation Regulations for the time being in force and in that respect the aircraft/equipment is considered fit for release to service	
Signature:	
Name:	HAZEL... [Stamp]
Approval No:	
Date:	02/10/2019

Next Base Maintenance:	Due At:
	Hours Date
<u>3 YEAR INSP.</u>	- & <u>21/06/20</u>
	(whichever is the sooner)

WHITE: Log Book

YELLOW: AMO

PINK: CAMO

WORK ORDER

To: SYSTEMATIC AVIATION SERVICES SDN. BHD.

Address: SAS Hangar
Sultan Abdul Aziz Shah Airport
Subang
Malaysia

Attention: Mr. Zulfakar Alang Ahmad
Engineering Manager
zulfakar@sassb.com.my

Work Order Number: GAM-WO-19-469

Work Pack Reference: WP-PEC-19-469

Date Issued: 08/08/2019

A/C Registration / SN: 9M-PEC/57060

Sheet: 1 OF 1

Description:

Item	Description/Task/Inspection	Reference	Man Hours
1	AF 12M INSPECTION	DMC-429-A-05-40-00-08A-281A-A	<u>22.0</u> (PLEASE ADVISE)
2	AF 100FH // 12M INSPECTION	DMC-429-A-05-40-00-01A-281A-A	<u>2.0</u> (PLEASE ADVISE)
3	AF 200FH // 12M INSPECTION	DMC-429-A-05-40-00-02A-281A-A	<u>10.0</u> (PLEASE ADVISE)
4	AF 400FH // 12M INSPECTION	DMC-429-A-05-40-00-03A-281A-A	<u>16.0</u> (PLEASE ADVISE)
5	AF 600FH // 12M INSPECTION	DMC-429-A-05-40-00-04A-281A-A	<u>56.0</u> (PLEASE ADVISE)
6	AF 800FH // 12M INSPECTION	DMC-429-A-05-40-00-05A-281A-A	<u>40.0</u> (PLEASE ADVISE)
7	ENG 12M INSPECTION (ENG 1)	PW207D1 MM 05.20.00, TABLE 2	<u>9.0</u> (PLEASE ADVISE)
8	ENG 12M INSPECTION (ENG 2)	PW207D1 MM 05.20.00, TABLE 2	<u>9.0</u> (PLEASE ADVISE)
9	HEATER SYSTEM	HEATER SERVICE MANUAL 229H-201M-1, REV 1 (SR00692DE)	<u>1.0</u> (PLEASE ADVISE)
10	AIRCONDITIONING SYSTEM STC SR000693DE 1 Y // 200 FH	AIR CONDITIONER SERVICE MANUAL 429EC-200M-1 REV 4 (SR000693DE)	<u>2.0</u> (PLEASE ADVISE)
11	AIRCONDITIONING SYSTEM STC SR000693DE ANNUAL	AIR CONDITIONER SERVICE MANUAL 429EC-200M-1 REV 4 (SR000693DE)	<u>4.0</u> (PLEASE ADVISE)
12	AUTOMATIC DOOR OPENER STC SR00707DE ANNUAL INSPECTION	LAZ-TEC, LLC (ICA), REPORT NO. AA-09074, REV B (SR00707DE)	<u>4.0</u> (PLEASE ADVISE)
13	DAFR - FDR SYSTEM CHECK	BHT-429-CMM-V, CURTISS WRIGHT CONTROLS; PIM434-1, FEB 2011	<u>6.0</u> (PLEASE ADVISE)

Remark/Notes:

1. State this Work Order reference on your Work Package. Should there is any additional job/defect (unless specified in the work package) the maintenance organization must notify GAM Continuing Airworthiness Manager prior to proceed with rectification.
2. Work must be carried out in accordance with approved data and perform by qualified personnel/ approved LAE from the maintenance organization.
3. Parts used must be written in Parts Report Form and accompanied by ARC, Serviceable Label or equivalent document.
4. Test report, parameter reading or any supporting data must be attached with the worksheet if applicable.
5. The maintenance organization shall be responsible for any damages made on the aircraft/ components during maintenance.
6. Softcopy of completed Work Package shall be submitted or as mutual agreed and GAM Continuing Airworthiness Manager must be informed once the aircraft is Release to Service.
7. Completed Work Package (original) must be submitted to GAM Continuing Airworthiness Manager office within 3 days of date of completion.

I hereby declare that an approved and up to date maintenance data has been referred for the issuance of this work order.

Thank you.
Best Regards,



Zaty Nadhira Mohamed Zuhari
Deputy Continuing Airworthiness Manager
Email: zaty@galaxyaerospace.my

CLIENT/OWNER: PLUS HELICOPTER SERVICES SDN BHD	SERIAL NO.	HOURS	LDG/CYCLE	WORKPACK NO:	WP-PEC-19-469
AIRCRAFT TYPE: BELL 429	AIRCRAFT	57060	3956	WORK/INSP/DESC:	SCHEDULED INSP.
REGISTRATION: 9M-PEC	#1 ENGINE:	PCE-BL0133	N/A	AERONET JOB NO.:	2019-1519
BASE/FACILITY: WMSA	#2 ENGINE:	PCE-BL0134	N/A	LBE REF NO.:	N/A
DATE IN: 19/08/19			NG / N1	NF / N2	SHEET:
OUT: 02/10/19					1 OF 1

Reason for raising: SCHEDULED INSPECTIONS TO BE CARRIED OUT I.A.W.- 429-MPI MAINTENANCE PLANNING INFORMATION ISS NO. 001, DATE 2019-01-10, PW207D1 MAINTENANCE MANUAL ISS NO. 16, DATED JUL-08-2019.PLUS AMP REF NO. MP/PHS/BELL429 ISSUE 2 REV 0 DATED 01 MARCH 2018.	Raised by and date: AISHAH 08/08/2019	Other requirements/information: N/A
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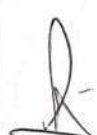


List of scheduled inspection and all work carried out under this workpack including individual reference. Master Signature Schedule

NO.	INSPECTION / WORK	WORKSHEET REF	NAME	TECH/INITIAL	SIGNATURE	APP/STAMP
1	AF 12M INSPECTION	WP-PEC-19-469-001	THAN YONG SHEN	TS		SAS LAE 037
2	AF 100FH // 12M INSPECTION	WP-PEC-19-469-002	SATHYA A/L R.DAVARAJA	SA		SAS LAE 019
3	AF 200FH // 12M INSPECTION	WP-PEC-19-469-003	NAN SYAMMIL	NS		SAS LAE 022
4	AF 400FH // 12M INSPECTION	WP-PEC-19-469-004	AZHAR AZIZ	AA		
5	AF 600FH // 12M INSPECTION	WP-PEC-19-469-005	HAIRUDEEN	HA		
6	AF 800FH // 12M INSPECTION	WP-PEC-19-469-006	ADNAN	AD		
7	ENG 12M INSPECTION (ENG 1)	WP-PEC-19-469-007	MUHD ILWAN	MI		
8	ENG 12M INSPECTION (ENG 2)	WP-PEC-19-469-008	ZAEIM	ZAE		
9	HEATER SYSTEM	WP-PEC-19-469-009				
10	AIRCONDITIONING SYSTEM STC SR000693DE 1Y // 200FH	WP-PEC-19-469-010				
11	AIRCONDITIONING SYSTEM STC SR000693DE ANNUAL	WP-PEC-19-469-011				
12	AUTOMATIC DOOR OPENER STC SR00707DE ANNUAL INSPECTION	WP-PEC-19-469-012				
13	DAFR - FDR SYSTEM CHECK	WP-PEC-19-469-013				

PART 145 - AMO RELEASE STATEMENT	NAME	FIRM	SIGN & APPROVAL	DATE
THIS IS TO CERTIFY THAT ALL WORK LISTED ABOVE HAS BEEN INSPECTED AND ACCOMPLISHED IN ACCORDANCE WITH CONTRACTED AMO EXPOSITION AND PROCEDURE LATEST REVISION.	SATHIYA A/L R.DAVARAJA	S.A.S		02/10/19

PART M - CAMO ACCEPTANCE STATEMENT	NAME	FIRM	SIGN & APPROVAL	DATE
THIS IS TO CERTIFY THAT THE ABOVE MENTIONED WORK PACKAGE HAS BEEN REVIEWED, CHECKED FOR COMPLETION AND UPDATED IN THE MAINTENANCE SOFTWARE. ALL RELEVANT AIRCRAFT/ENGINE/ MODIFICATION LOGBOOK HAS BEEN UPDATED.	ZATY NADHIRA BINTI MOHAMED ZUHARI Continuing Airworthiness Management Manager Galaxy Aerospace (M) Sdn Bhd (1040262-D)	GAM		3/10/19



CLIENT/OWNER: PLUS HELICOPTER SERVICES SDN BHD AIRCRAFT TYPE: BELL 429 REGISTRATION: 9M-PEC BASE/FACILITY: WMSA DATE IN: 19/08/19 OUT: 02/10/19	SERIAL NO.	57060	HOUR: 1803.54 1804.06 1803.54 1804.06 1803.54 1804.06	LDG/CYCLE	3956	WORKSHEET NO:	WP-PEC-19-469-013
	AIRCRAFT	57060				WORK/INSP/DESC:	DAFR - FDR SYSTEM
	#1 ENGINE:	PCE-BL0133		--	--	WORKPACK REF:	WP-PEC-19-469
	#2 ENGINE:	PCE-BL0134		--	--	LBE REF NO.:	
				NG / N1	NF / N2	SHEET:	1 OF 1
REASON FOR RAISING: 12 M DAFR-FDR SYSTEM TO BE CARRIED OUT I.A.W.- PLUS AMP REF NO. MP/PHS/BELL429 ISSUE 2 REV 0 DATED 01 MARCH 2018. DUE AT: 09/10/2019				RAISED BY AND DATE: AISHAH 08/08/2019		OTHER REQUIREMENTS/INFORMATION: N/A	
ITEM	DESCRIPTION				TECHNICIAN	* ENG. CRS	DATE
1	12M DAFR-FDR SYSTEM CHECK COPY AND REPLAY THE LAST 15 MINUTES OF FLIGHT RECORDING. CHECK ALL MANADATORY PARAMETERS ARE ACTIVE AND ARE OF ACCEPTABLE QUALITY. REF: BHT-429-CMM-V, CURTISS WRIGHT CONTROLS; PIM434-1, FEB 2011, PARA 6.6, TABLE 5 MAINTENANCE TASKS FOR DAFR TYPE D51615-202-XXX REMARKS: FOUND STATS . REFER ATTACHED REPORT .					 	30.08.19

*THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE MALAYSIAN CIVIL AVIATION REGULATION FOR THE TIME BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT / EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

*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.

*TICK WHERE APPLICABLE

PARTS LABELED & RETURNED	D.D. RAISED	DUPLICATE INSP.	GROUND RUN	FLIGHT TEST	TORQUE CHK.	ADDITIONAL WORKSHEET	MONITORED DEFECT	PLANNING FORECAST	DIARY UPDATE	STATUS UPDATE	D.D. STATUS	AIRCRAFT LOG BOOK	ENGINE LOG BOOK	PROPELLOR LOG BOOK	LOG CARD	OEM/COMP LOG CARD	MOD RECORD BOOK
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DATA ANALYSIS REPORT FOR
BELL 429 S/N: 57060 REGISTRATION: 9M-PEC
AUGUST 2019

INTRODUCTION

The purpose of this report is to determine the serviceability of the Penny & Giles (Curtiss-Wright) Data Acquisition Flight Recorder (DAFR) Type D51615-202-011, as installed on the Bell 429 aircraft Registration : 9M-PEC, to satisfy the periodic maintenance requirements as defined by Installation and Operating Manual PIM434-I (November 2018).

Note: - Penny & Giles Aerospace Limited do not hold the necessary approvals to determine the airworthiness of the aircraft, and as such, can only comment on the performance of the DAFR, Cockpit Control Unit (CCU) and Cockpit Area Microphone (CAM). It is the responsibility of the maintainer / aircraft operator to determine whether the installation of Penny & Giles equipment is airworthy, based on the comments and evidence provided herein.

DATA DOWNLOAD

All recorded FDR & CVR data was downloaded from DAFR Type D51615-202-011 s/n: A00474-007 by Systematic Aviation Services and sent to Penny & Giles Aerospace Ltd. in a raw format on the 23rd August 2019.

The FDR data was converted into a compatible file format (*.xff) using Professional Ground Station (PGS) Analysis replay software release 5.7.1 and a parameter database file specific to the Bell 429.

The CVR data was converted into a standard Microsoft® Windows .wav format using the Wave Converter utility within PGS.



Penny & Giles Aerospace Ltd.,

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FDR ANALYSIS

The FDR data was displayed in PGS Analysis with no obvious signs of errors or data drop-outs.

A check was made for the presence and quality of the following parameters in accordance with Table 97-1 in the Bell 429-MMS-05 document.

Relative Time

C DU – DU Discretes – Pilot’s Radio Key

R DU – Pilot’s Radio Key

C DU – RH Caution #10: Hyd 2 Press

R DU – RH Caution #10: Hyd 2 Press

R DU – AFCS ATT Mode

R DU – AFCS SCAS Mode

R DU – RH Caution #33 AP 2

C DU – AFCS Discrete 3 – FD2 (Right) Active (FCC2)

R DU – FD2 (Right) Active (FCC2)

C DU – Body Longitudinal Acceleration (G)

C DU – Collective Lever Position (%CLP)

C DU – Cyclic Fore/Aft Position (%)

C DU – Cyclic Left/Right Position (%)

C DU – Pedal Position (%)

C DU – Rotor RPM NR (%)

C DU – Selected NP Eng #1 (%)

C DU – Selected Q Eng #1 (%)

C DU – Selected AHRS Pitch 1 (Deg)

R DU – Pilot Selected AHRS Pitch 1 (Deg)

C DU – Selected AHRS Roll 1 (Deg)

R DU – Pilot Selected AHRS Roll 1 (Deg)

C DU – Selected AHRS HDG 1 (Deg)

R DU – Pilot Selected AHRS HDG 1 (Deg)

C DU – Selected ADC Pressure Altitude 1 (Ft)

R DU – Pilot Selected ADC Pressure Altitude 1 (Ft)

C DU – Selected ADC Vertical Speed 1 (ft/min)

R DU – Pilot Selected ADC Vertical Speed 1 (ft/min)

C DU – Selected ADC Airspeed 1 (Kts)

R DU – Pilot Selected ADC Airspeed 1 (Kts)

C DU – Selected ADC OAT 1 (°C)

R DU – Pilot Selected ADC OAT 1 (°C)

C DU – DU Discretes – Co-Pilot’s Radio Key

R DU – Co-Pilot’s Radio Key

C-DU – LH Caution #10: Hyd 1 Press

R DU – LH Caution #10: Hyd 1 Press

C DU – AFCS ATT Mode

C DU – AFCS SCAS Mode

C DU – LH Caution #33 AP 1

C DU – AFCS Discrete 3 – FD1 (Left) Active (FCC1)

R DU – FD1 (Left) Active (FCC2)

R DU – Normal Acceleration (G)

Body Lateral Accel (G)

R DU – Collective Lever Position (%CLP)

R DU – Cyclic Fore/Aft Position (%)

R DU – Cyclic Left/Right Position (%)

R DU – Pedal Position (%)

R DU – Rotor RPM NR (%)

R DU – Selected NP Eng #2 (%)

R DU – Selected Q Eng #2 (%)

C DU – Selected AHRS Pitch 2 (Deg)

R DU – Pilot Selected AHRS Pitch 2 (Deg)

C DU – Selected AHRS Roll 2 (Deg)

R DU – Pilot Selected Roll 2 (Deg)

C DU – Selected AHRS HDG 2 (Deg)

R DU – Pilot Selected AHRS HDG 2 (Deg)

C DU – Selected ADC Pressure Altitude 2 (Ft)

R DU – Pilot Selected ADC Pressure Altitude 2 (Ft)

C DU – Selected ADC Vertical Speed 2 (ft/min)

R DU – Pilot Selected ADC Vertical Speed 2 (ft/min)

C DU – Selected ADC Airspeed 2 (Kts)

R DU – Pilot Selected ADC Airspeed 2 (Kts)

C DU – Selected ADC OAT 2 (°C)

R DU – Pilot Selected ADC OAT 2 (°C)

Screenshots of these parameters are shown in *Annex A*.

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CURTISS - WRIGHT

CVR ANALYSIS

After conversion to *.wav format, the CVR files were displayed and replayed using PGS Analysis software. All channels display signs of heavy saturation with severe clipping of the waveforms however, the voice audio data recorded was clear with no signs of distortion. Background noise in each case was found to be clear and discernable.

A possible cause may be the gain or attenuation being set incorrectly for the headset microphones, such that the gain is too high for the audio to sit comfortably inside the bandwidth envelope for the relevant channel input.

Crew Channel 1 (Pilot)	Shown some signs of saturation (static) and clipping of the waveform, background engine/gearbox noise was audible and clear, the voice recording was good with no sign of distortion.
Crew Channel 2 (Co-Pilot)	Shown the same amount of saturation and clipping as CV-1, the recording of both background noise and voice audio was good.
Crew Channel 3 (Area mic)	Shown signs of heavy saturation and clipping however the recording of both background noise and audio was clear and intelligible.
Channel 4 (High Quality Combined)	Shows signs of heavy saturation and clipping, voice recordings were clear and intelligible.

Screenshots of the Waveforms for each of the CVR recordings are shown in **Annex B**.

CONCLUSION

The information contained in the FDR/CVR data downloaded from Data Acquisition Flight Recorder (DAFR) type D51615-202-011 Iss 1 s/n: A00474-007 as installed on Bell 429 s/n: 57060 registration: **9M-PEC** can be considered valid.

The DAFR is determined to be serviceable, as all elements of the data have been recorded; the CVR/audio data requires investigation and possible attenuation/gain levels reset.



Alan Titterington
Product Support Engineer

23rd August 2019

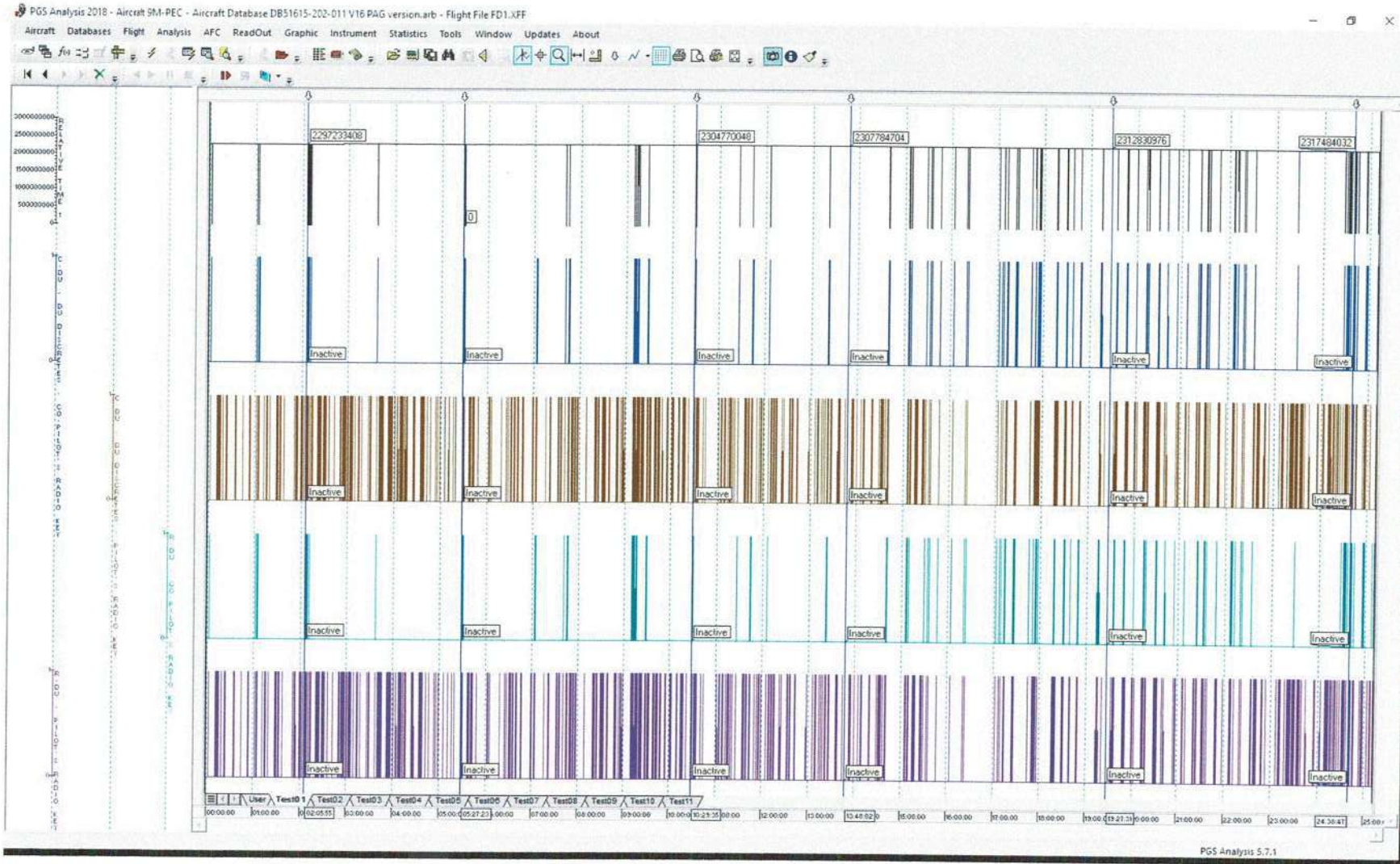
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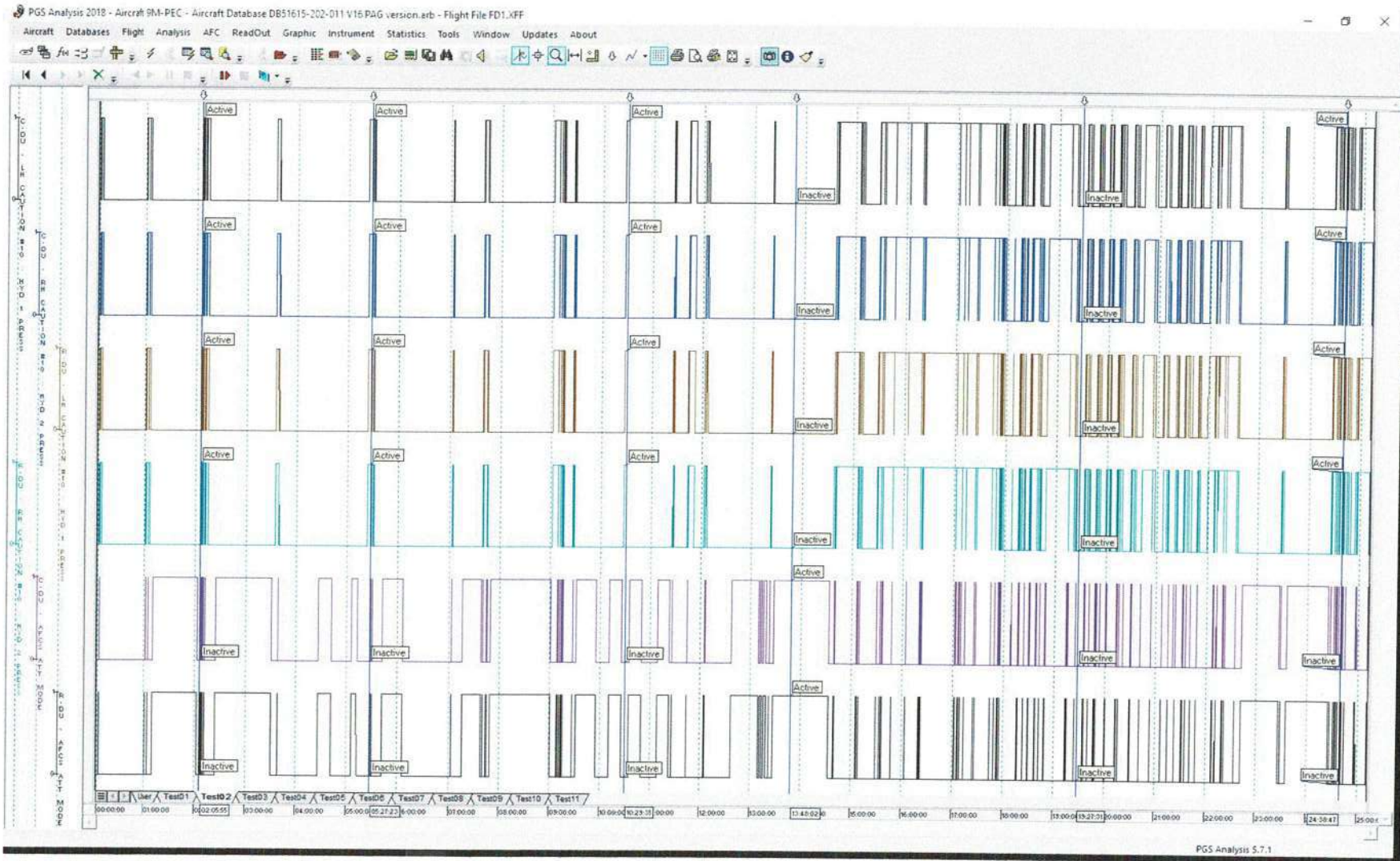





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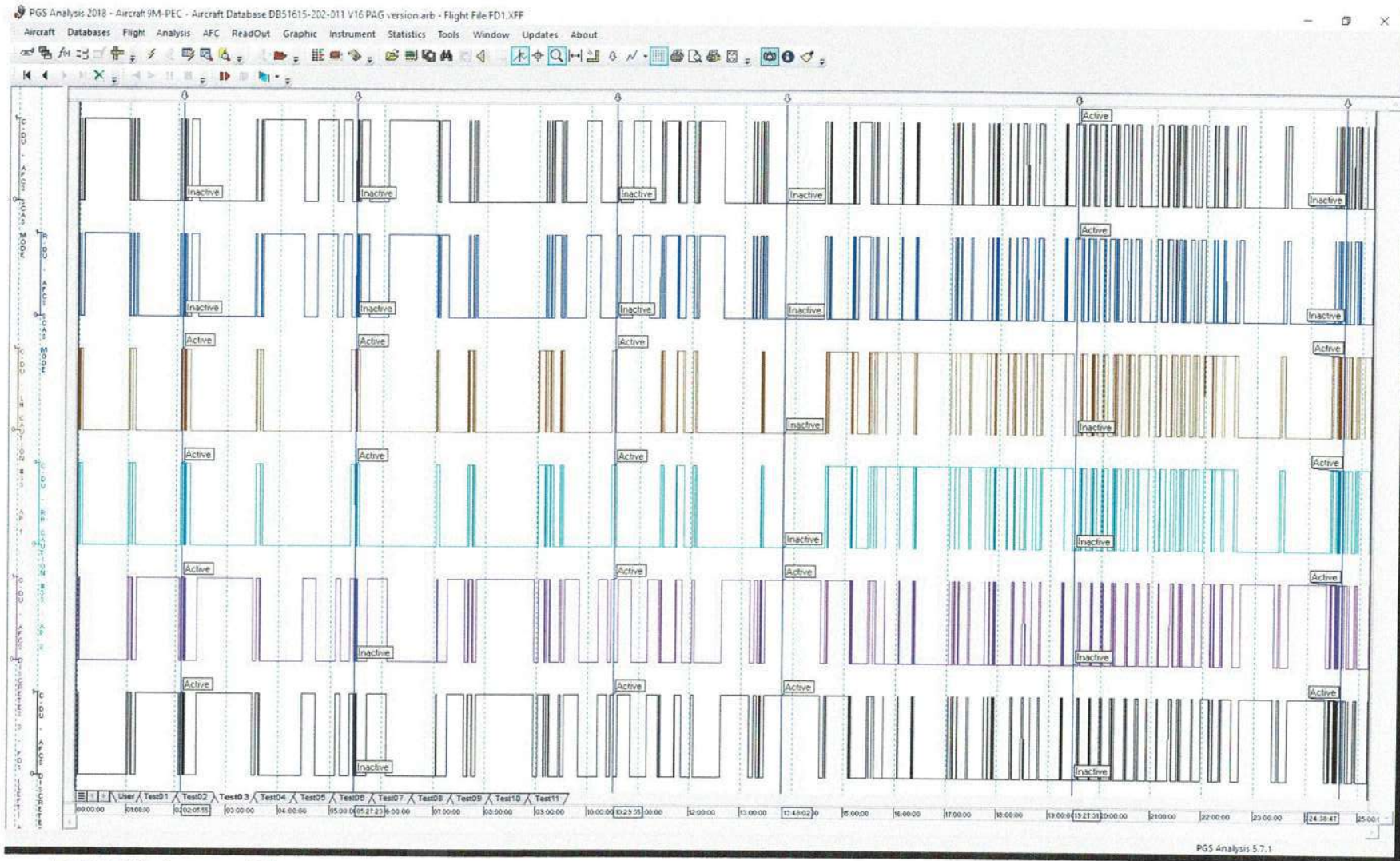
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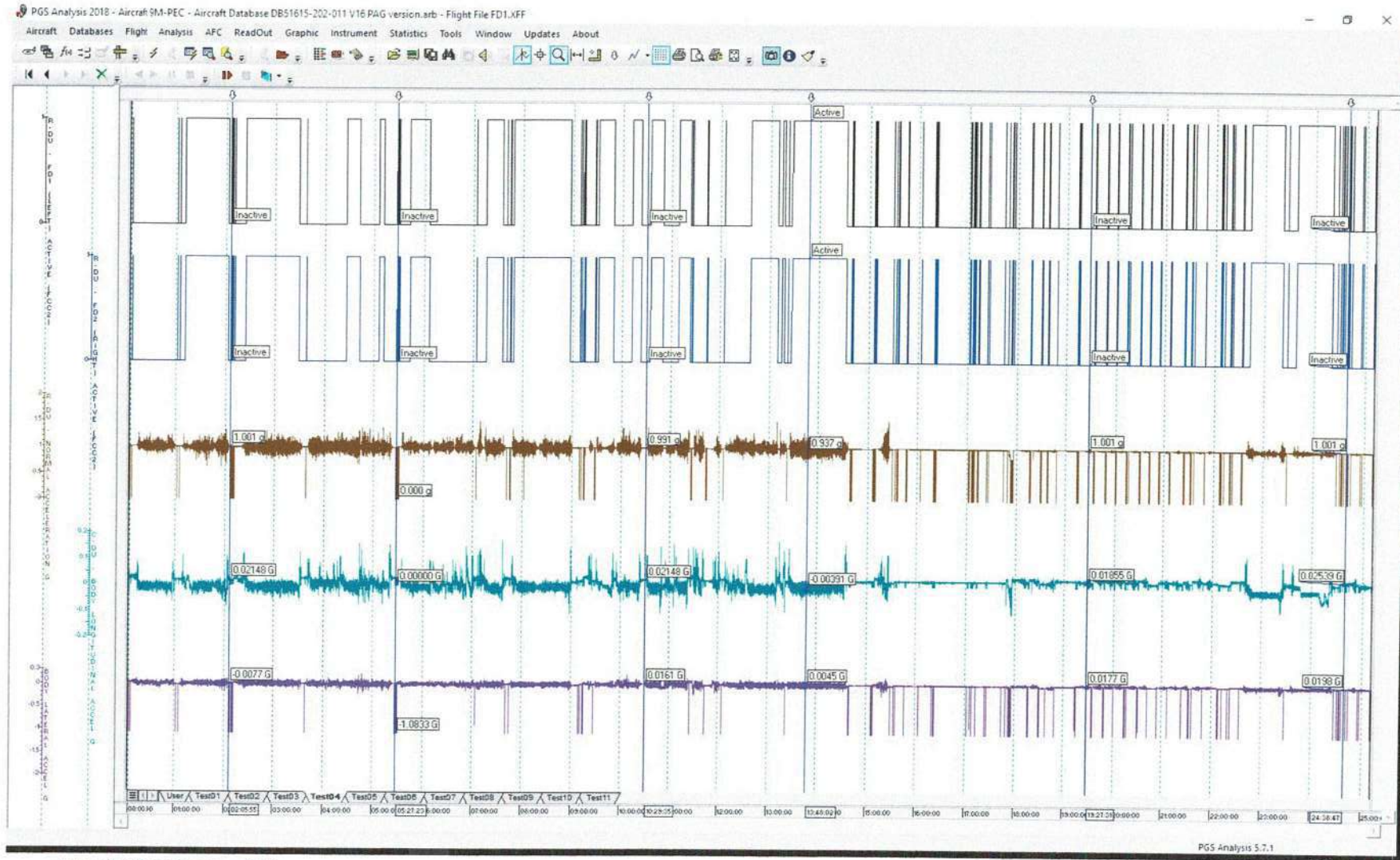
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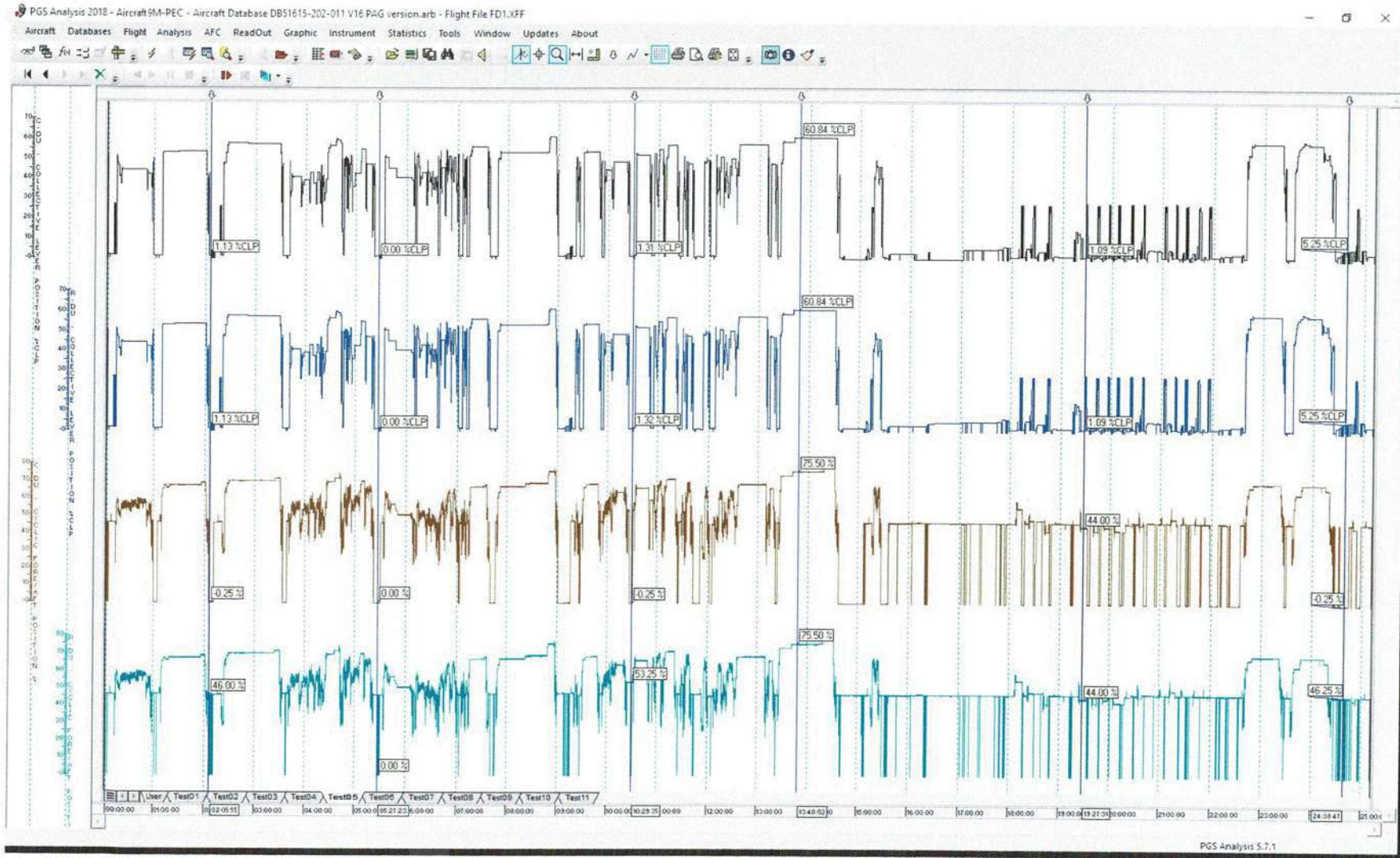
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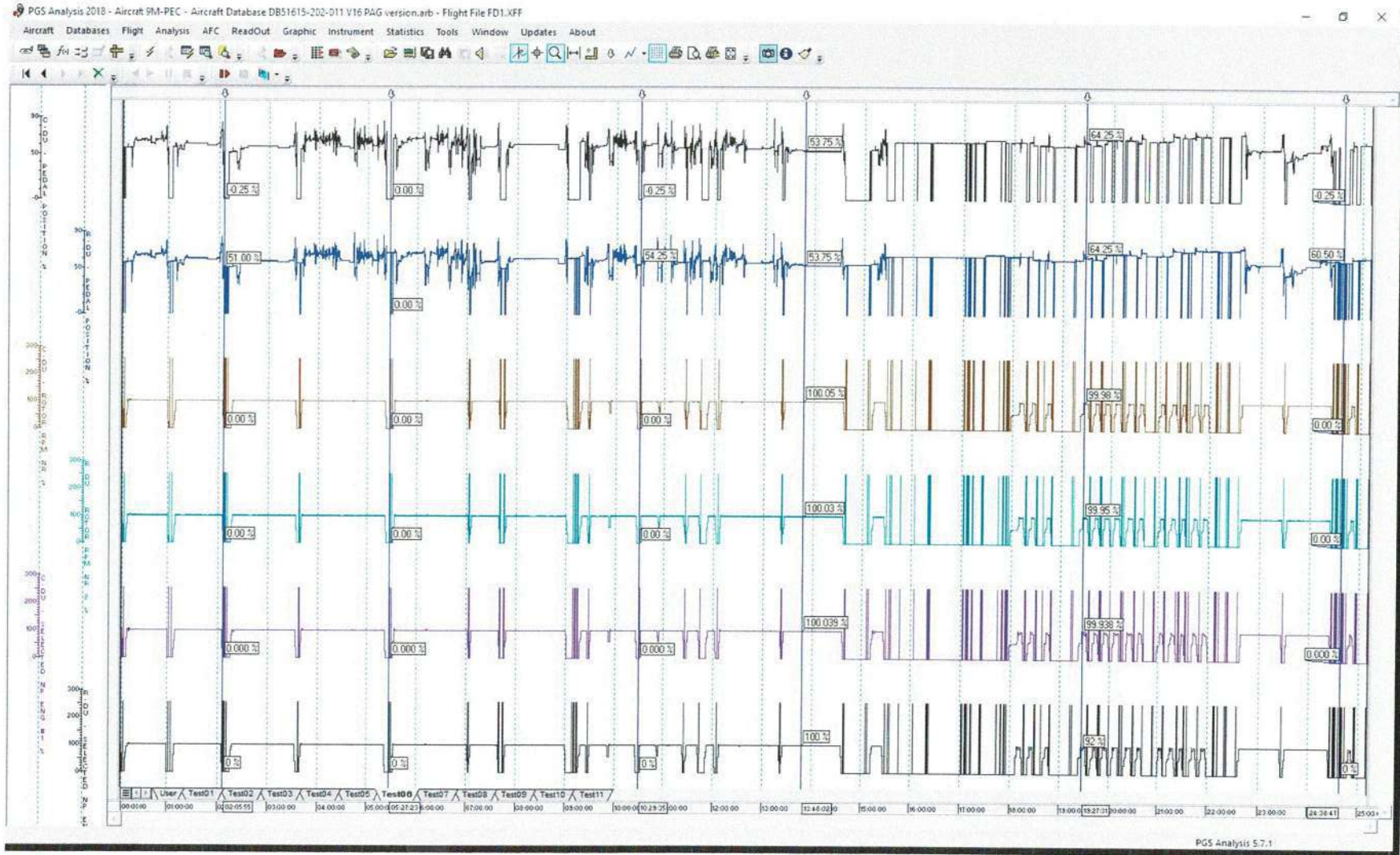
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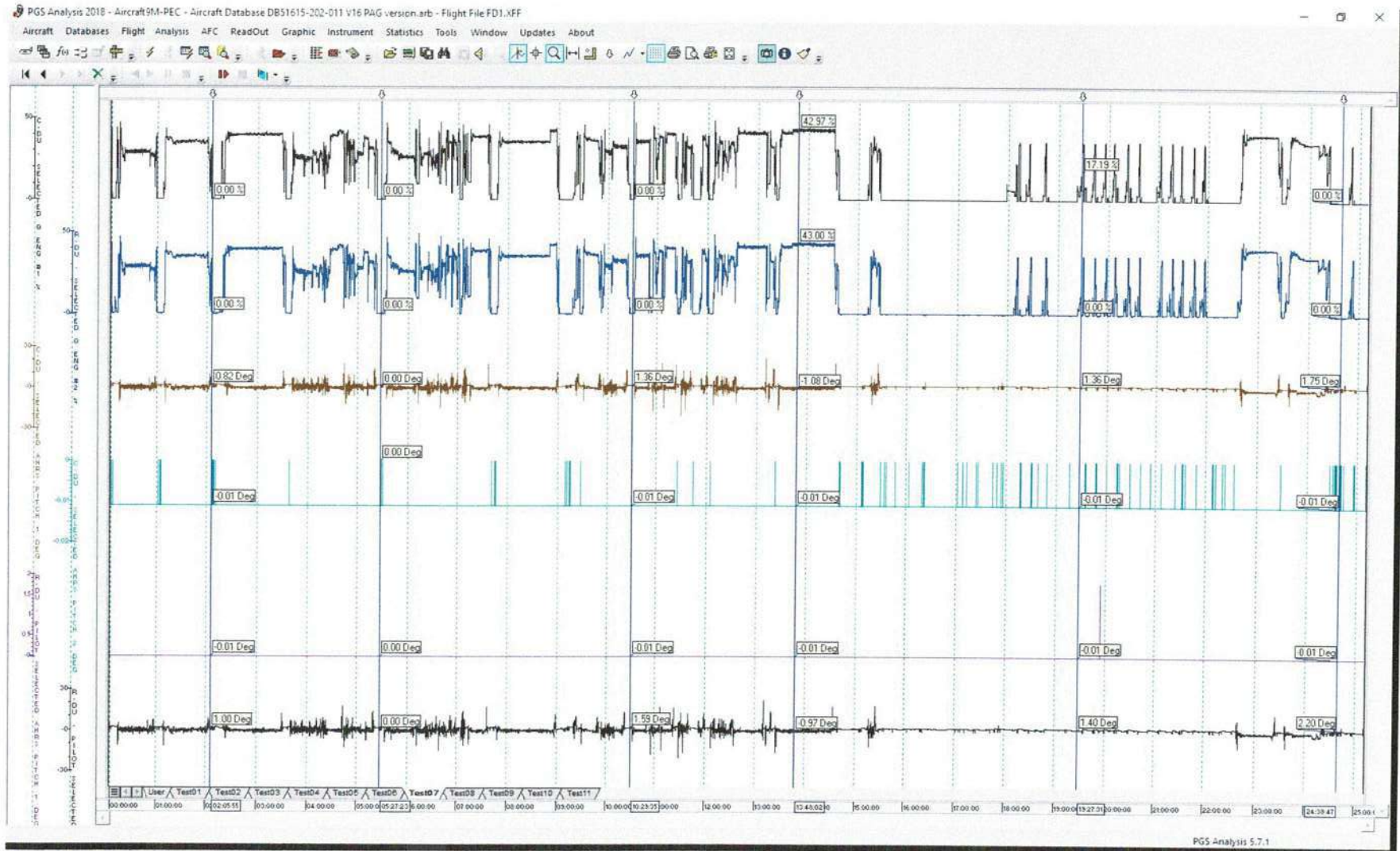




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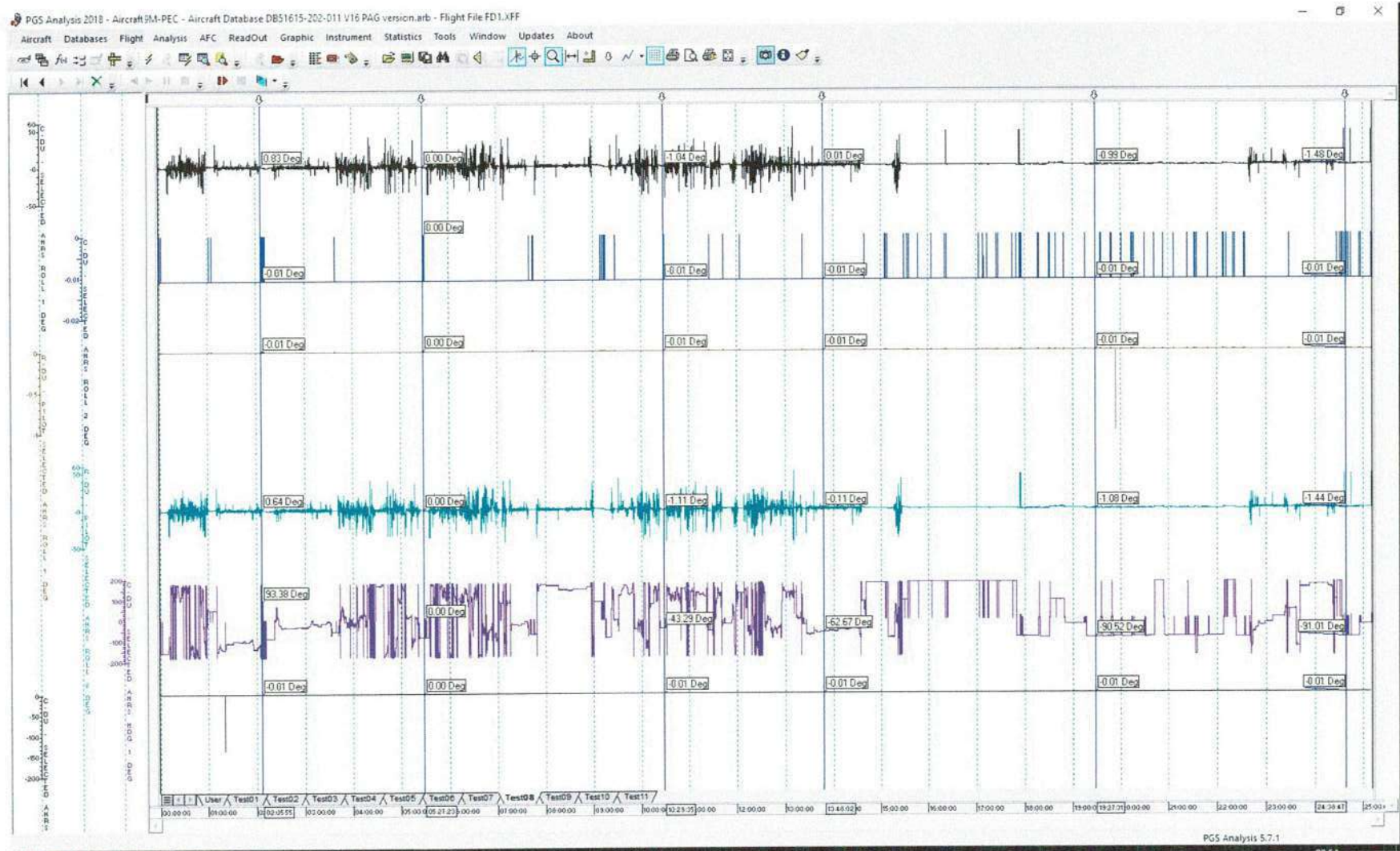
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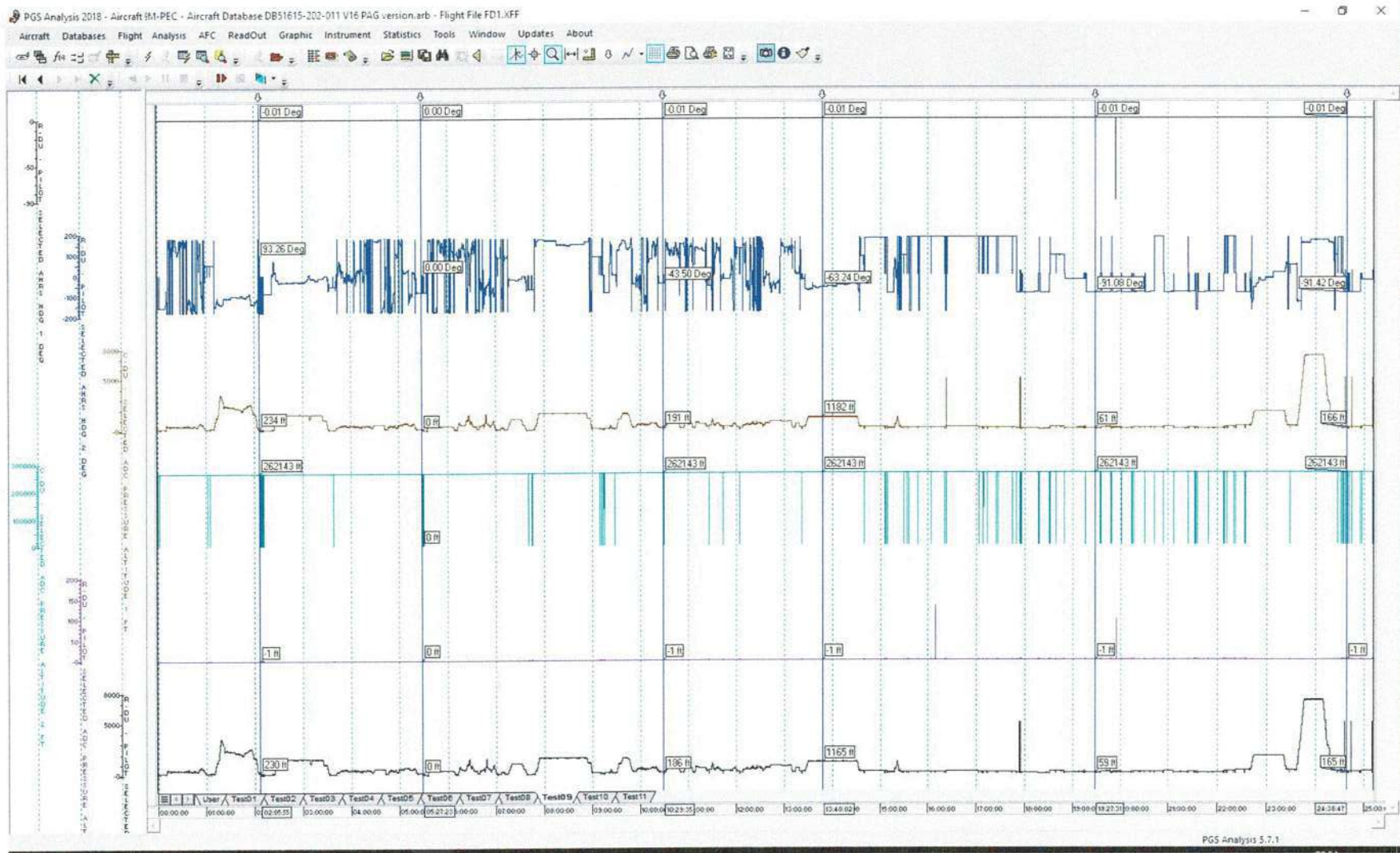
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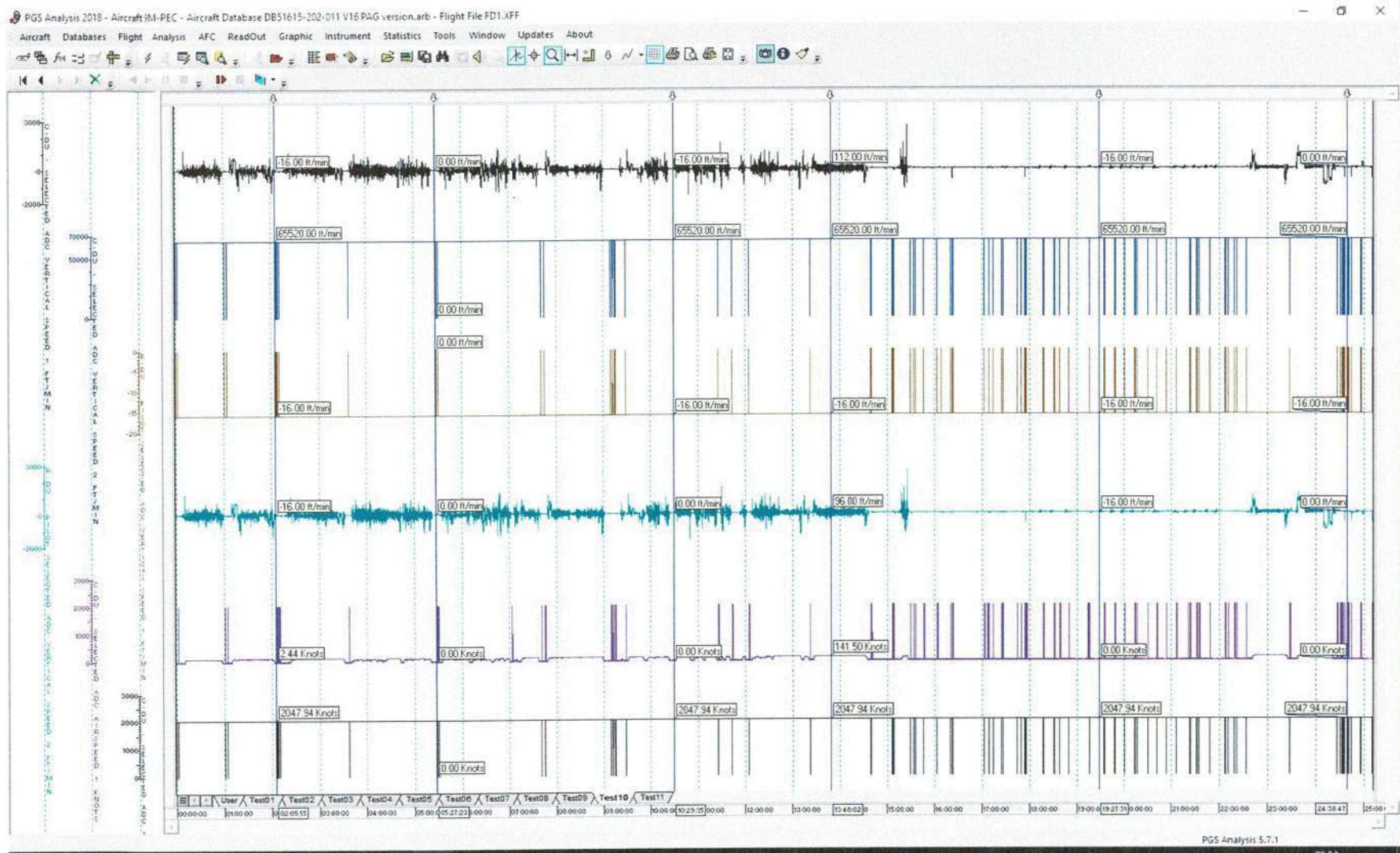
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15 Enterprise Way, Aviation Park West, Bournemouth Int'l Airport, Christchurch, Dorset, BH23 6HH, United Kingdom
Tel: +44-1202-034012 | www.curtiswrightds.com/avionics

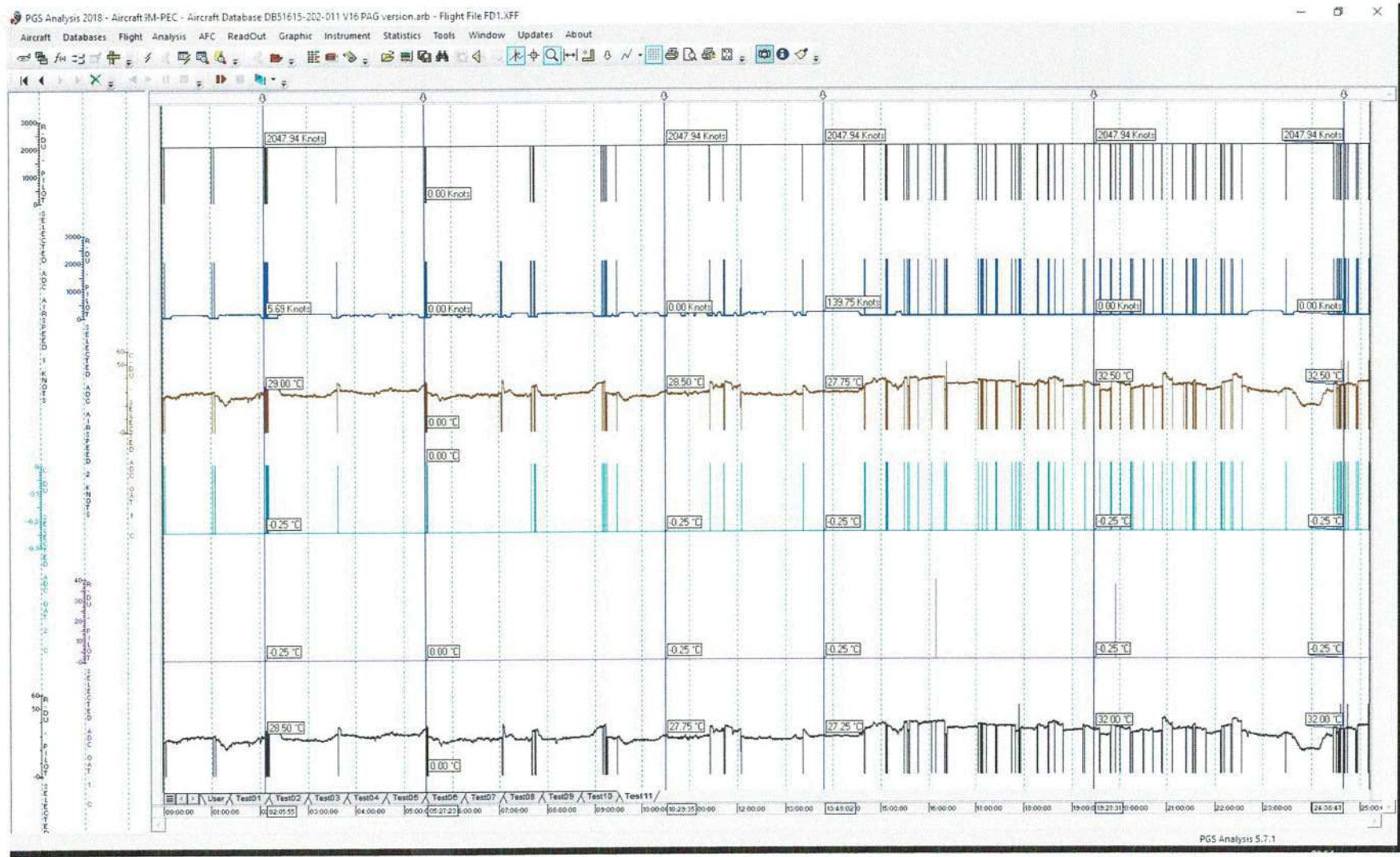
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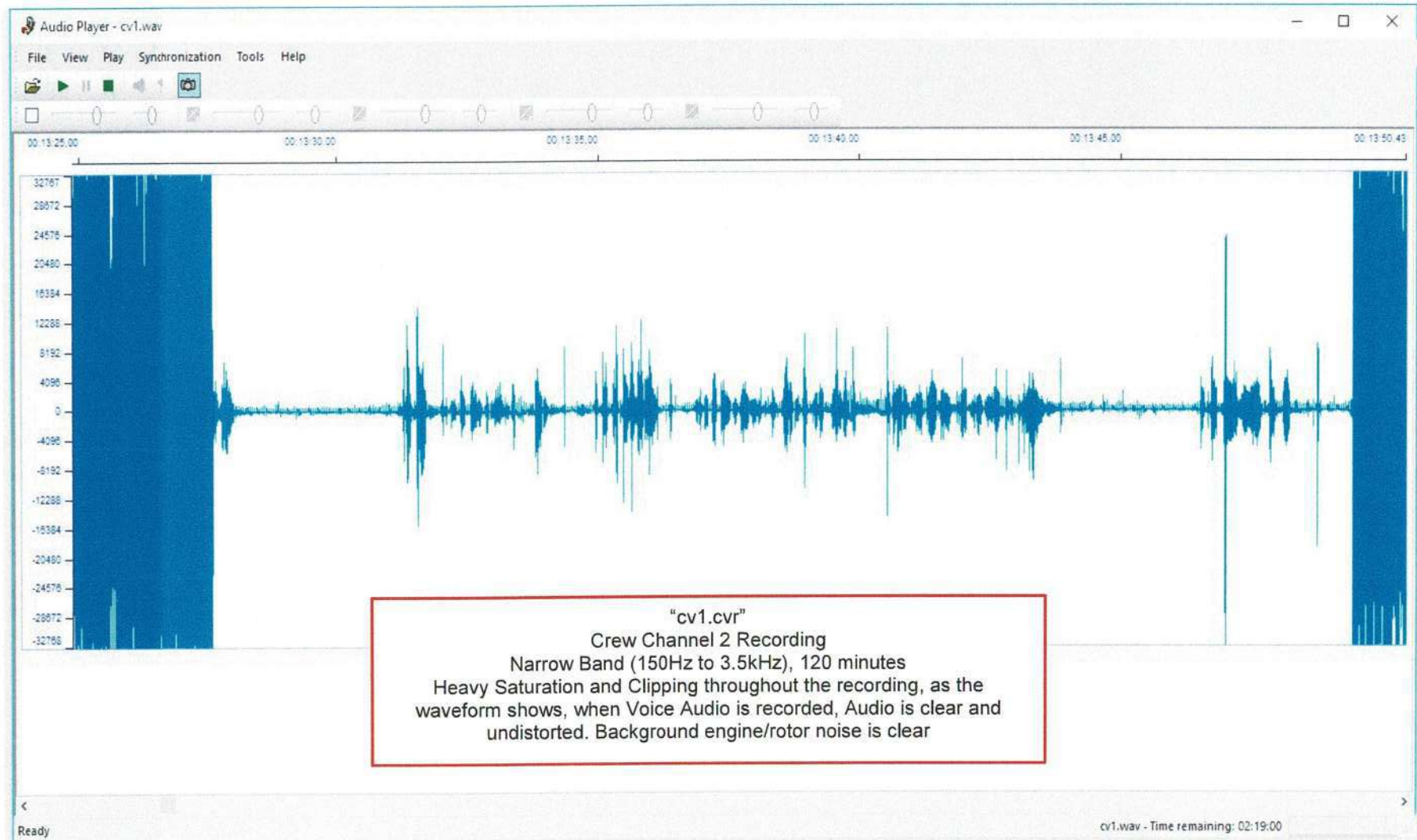
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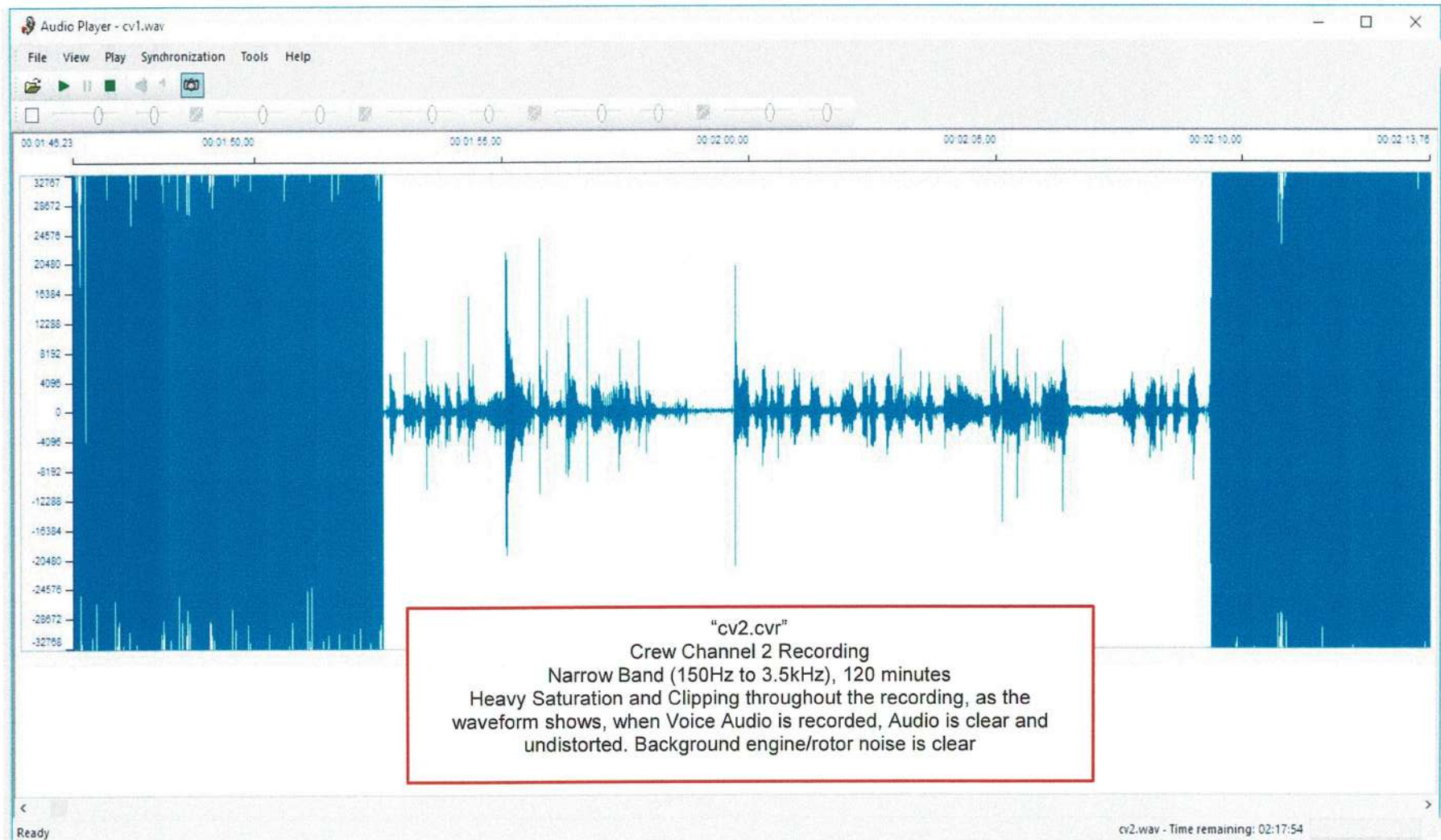
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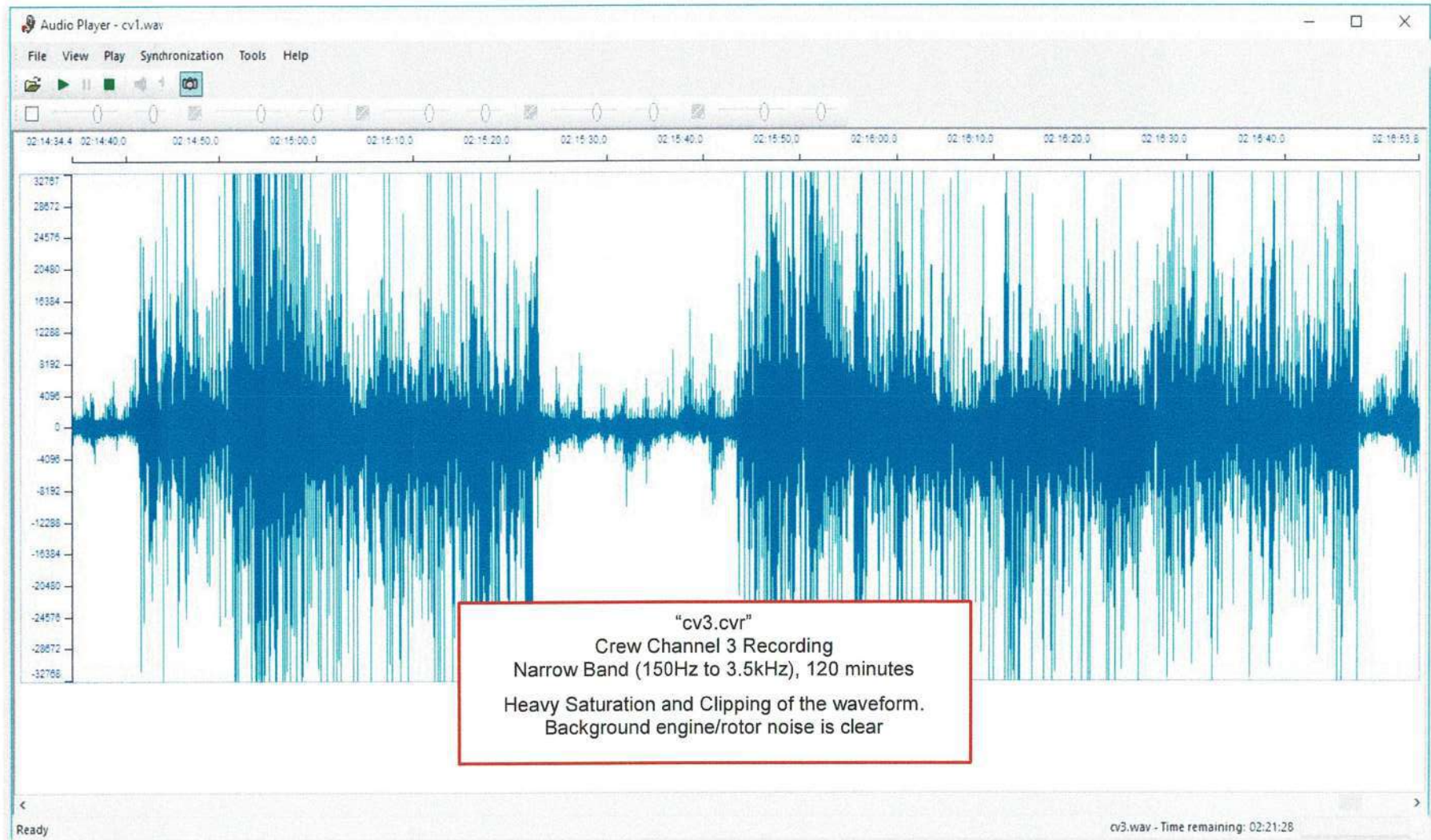
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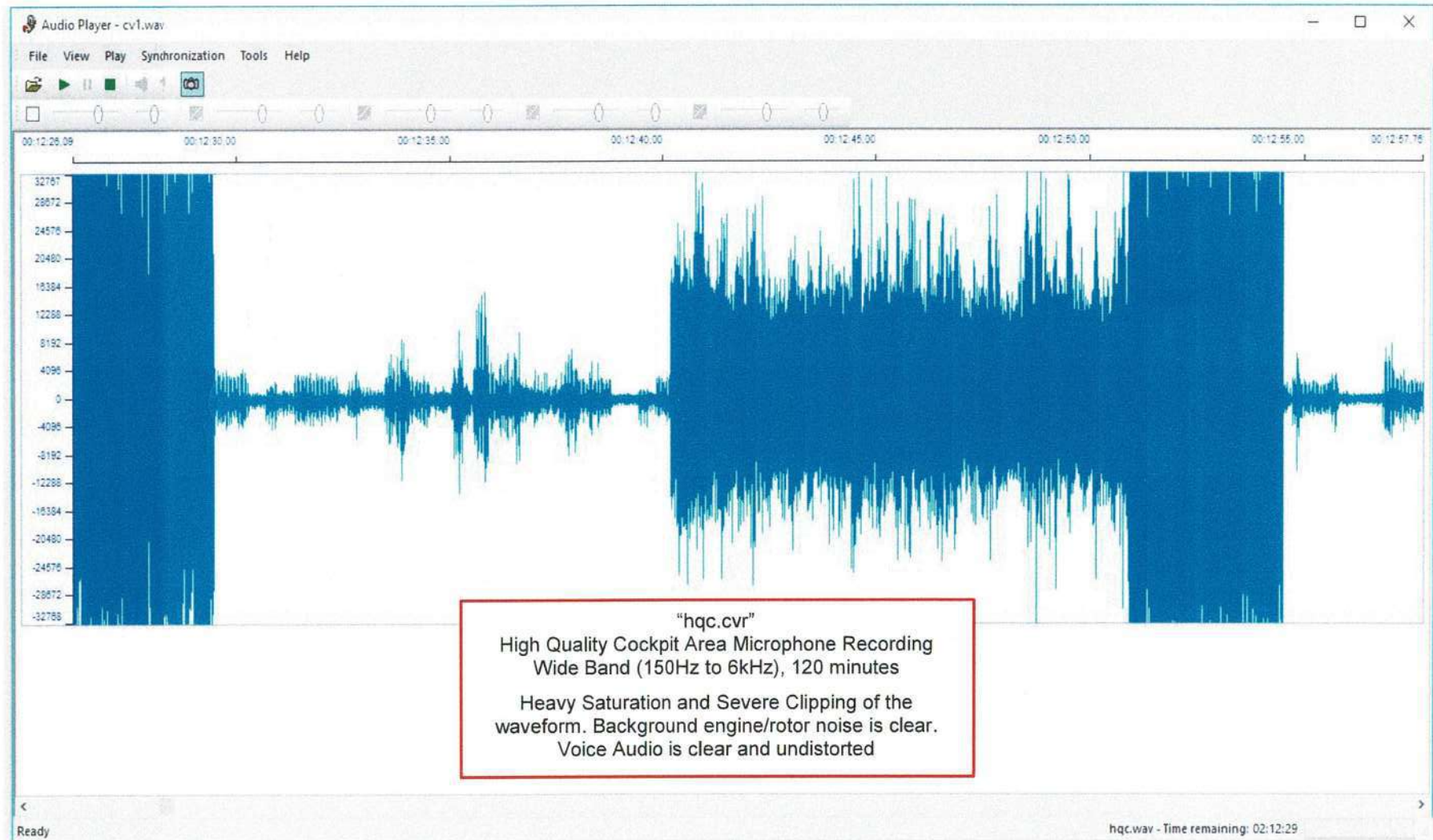
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CLIENT/OWNER: PLUS HELICOPTER SERVICES SDN BHD	SERIAL NO.	HOURS	LDG/CYCLE	WORKSHEET NO:	WP-PEC-19-469-013
AIRCRAFT TYPE: BELL 429	AIRCRAFT: 57060	1804-34 1804-00 1804-54 1804-06 1804-54 1804-06	3956	WORK/INSP/DESC:	DAFR - FDR SYSTEM
REGISTRATION: 9M-PEC	#1 ENGINE: PCE-BL0133			WORKPACK REF:	WP-PEC-19-469
BASE/FACILITY: WMSA	#2 ENGINE: PCE-BL0134			LBE REF NO.:	
DATE IN: 19/05/19 OUT: 02/10/19			NG / N1	NF / N2	SHEET: 1 OF 1

Reason for raising: DAFR-FDR SYSTEM CHECK TO BE CARRIED OUT I.A.W:- 429-MAINTENANCE MANUAL ISSUE 001-10 JAN 2019 PLUS AMP REF NO. GAM/CAMO/AMP/429 ISSUE 1 REV. 0 DATED 22 APRIL 2019 DUE AT: 09/10/2019	Raised by and date: AISHAH 21/06/2019	Other requirements/information: N/A
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Item	Part No	Description	Serial Number		Qty	Position	Reason	Lifed Item Information TSN/TSO/DUE/TIMEX	Release Reference
			Off	On					
N/A									

NAME	FIRM	SIGN & APPROVAL	DATE
AZHAR AZIZ	SAS		20.08.19

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

*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.

TICK ✓ WHERE APPLICABLE

PARTS LABELED & RETURNED	D.D. RANGED	DUPLICATE INSP	GROUND RUN	FLIGHTTEST	TORQUE CHK	ADDITIONAL WORKSHEET	MONITORED DEFECT	PLANNING FORECAST	DIARY UPDATE	STATUS UPDATE	D.D. STATUS	AIRCRAFT LOG BOOK	ENGINE LOG BOOK	PROPELLER LOG BOOK	LOG CARD	DEM/COMP LOG CARD	MOD RECORD BOOK
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