



CLIENT/OWNER: ROYAL MALAYSIA POLICE AIRCRAFT TYPE: AW139 REGISTRATION: 9M-PMD BASE/FACILITY: WMSA DATE IN: 22/09/23 OUT: 25/09/23	SERIAL NO.	HOURS	LDG/CYCLE		WORKSHEET NO: UMC-PMD.-23-..070 WORK/INSP/DESC: UNSCHEDULE TASK WORKPACK REF: NOT APPLICABLE AJL REF NO.: 01385 SHEET: 1 OF 1
	AIRCRAFT	31809	1778:10	3094	
	#1 ENGINE:	PCE-KB2112	1778:10	- -	
	#2 ENGINE:	PCE-KB2092	1778:10	- -	
			NG / N1	NF / N2	

Reason for raising: PILOT REPORTED TRANSMISSION OVER TORQUE RECORDED ON C.A.S.	Raised by and date: AINUDIN 22/09/23	Other requirements/information: NIL
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Item	Description	Technician	* Eng. CRS	Date
1.	PERFORM ENGINE DATA COLLECTION UNIT (DCU) DATA DOWNLOAD I.A.W ENGINE MAINTENANCE MANUAL CHAPTER 77.40.01, ISSUE 31.0 DATED 08 MAY 2023. REMARKS: TASK CARRIED OUT AND FOUND SATISFACTORY. REFER APPENDIX 1 ATTACHED FOR DCU DATA DOWNLOAD .	 8292	 	25/9/23

2.	TO RAISE TECHNICAL QUERIES TO LEONARDO HELICOPTERS FOR FURTHER ACTIONS. REMARKS: TECHNICAL QUERIES RAISED ON 22/09/23. NO FURTHER ACTIONS NEEDED AS ADVISED BY LEONARDO HELICOPTERS. REFER CLOSING NOTE IN TECHNICAL QUERIES No. PSE/TQ/2023/125573 DATED 25/09/23 ATTACHED.	 8339	 	25/9/23
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Galaxy Aerospace (M) Sdn. Bhd.

I hereby certify the following task has been performed and found satisfactory:

1) All the tools and equipment used for maintenance has been removed from aircraft. 2) All the access panels removed for maintenance access has been reinstalled. 3) All the excess spares and materials have been notified to AMO Planner for return plan. 4) FOD check has been done.

Sign & Stamp: Date & Time: 25/9/23 @ 1800h

- *Certifies that the work specified above, except as otherwise specified, was carried out in accordance with CAA Malaysia Requirements and in respect to that work the aircraft / aircraft component is considered ready for release to service. **AMQ/2016/02**
- *Certifies that the work specified above, except as otherwise specified, was carried out in accordance with _____ and in respect to that work the aircraft / aircraft component is considered ready for release to service.

TICK WHERE APPLICABLE

ISSUED BY	ISSUED TO	ISSUED FOR	ISSUED AT	ISSUED ON	ISSUED BY	ISSUED TO	ISSUED FOR	ISSUED AT	ISSUED ON	ISSUED BY	ISSUED TO	ISSUED FOR	ISSUED AT	ISSUED ON	ISSUED BY	ISSUED TO	ISSUED FOR	ISSUED AT	ISSUED ON
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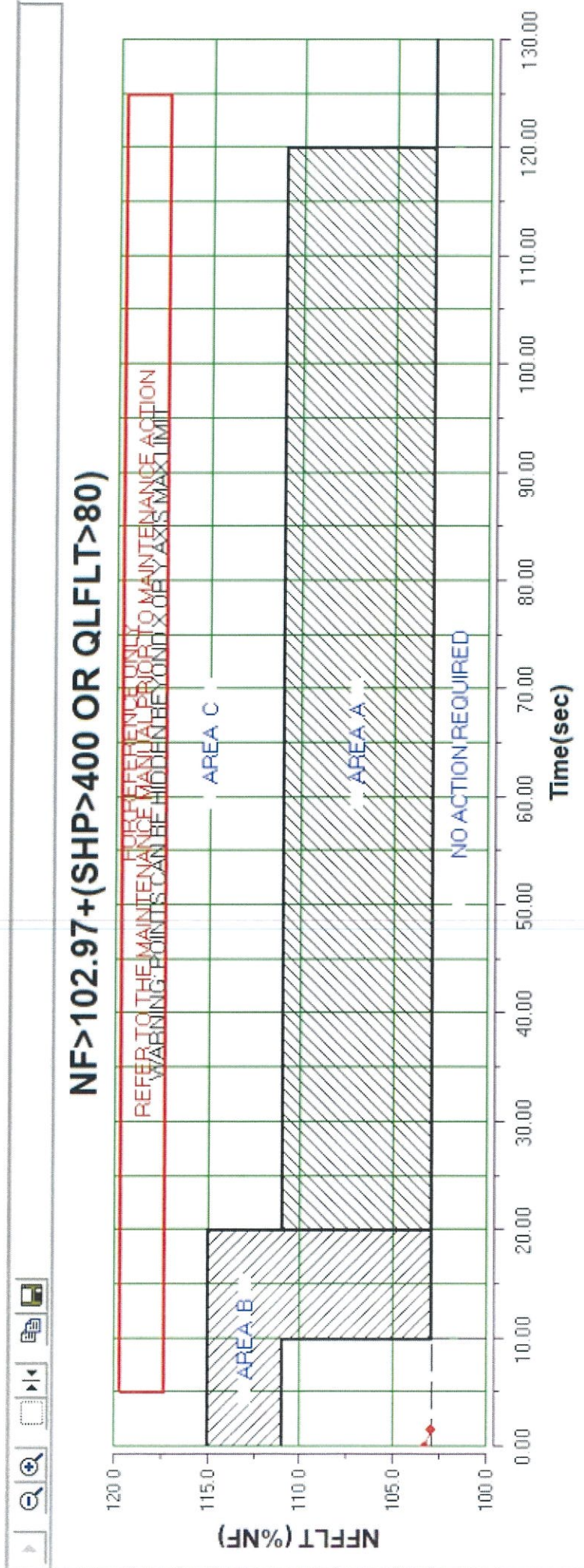
*Certifies that the work specified above, except as otherwise specified, was carried out in accordance with _____ and in respect to that work the aircraft / aircraft component is considered ready for release to service.

TICK ✓ WHERE APPLICABLE

REP'D	BY	DATE	REVISION	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE	ISSUE	DATE

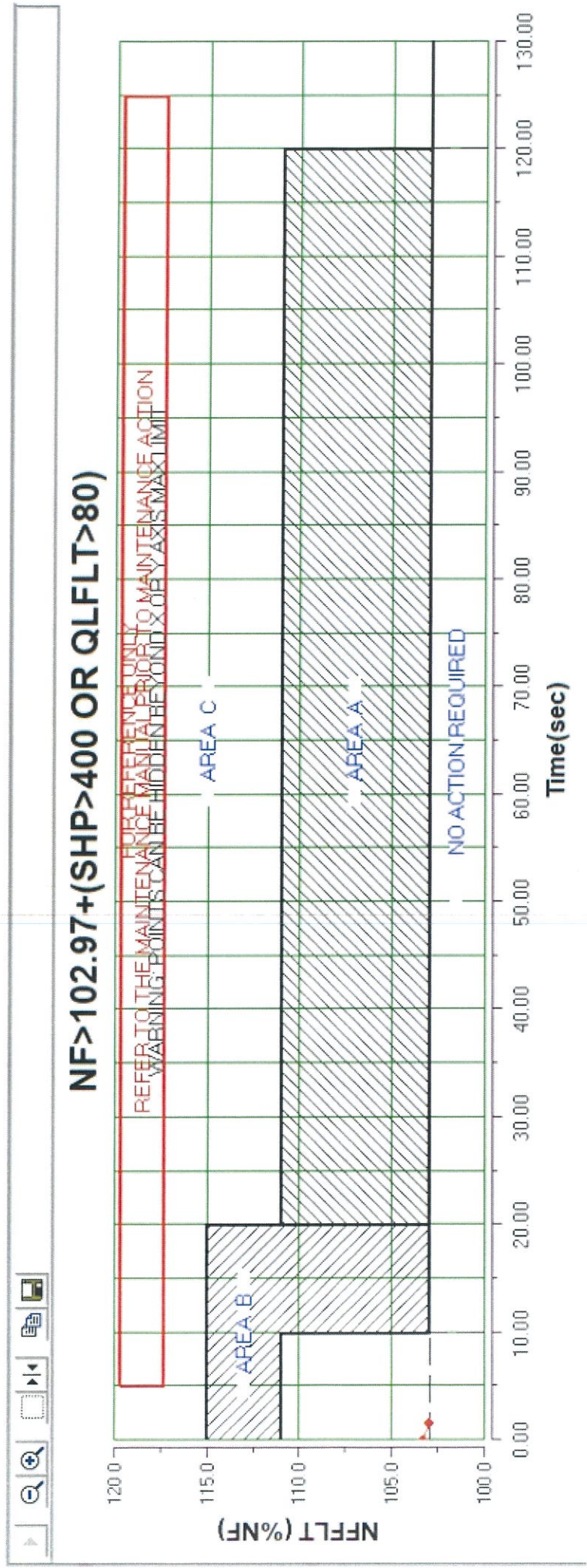
Appendix 1

ENGINE S/N: PCE-KB2112




25/9/23


Appendix 1
ENGINE S/N: PCE-KB2092

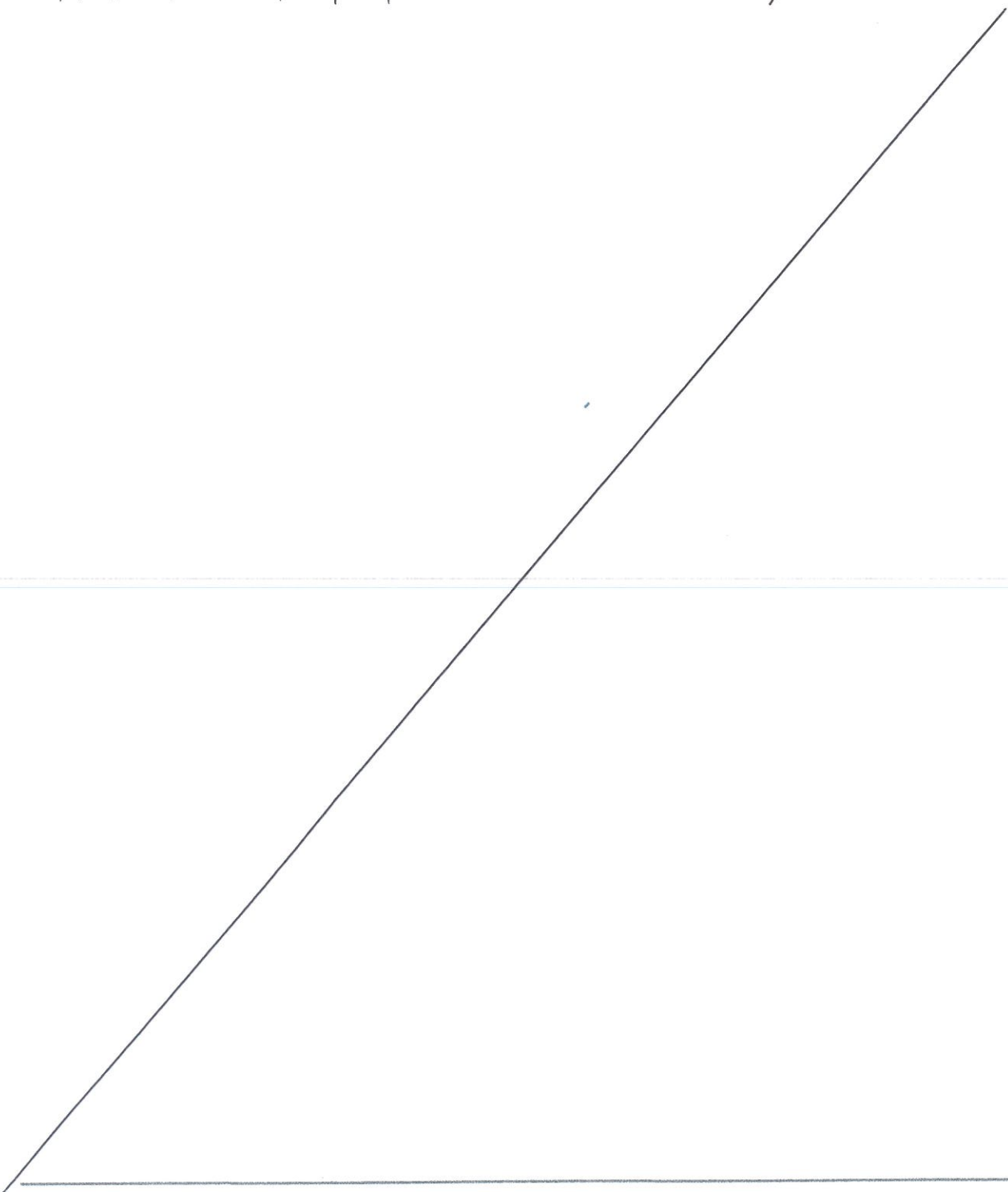


[Signature]
25/4/23



Aircraft Serial No:	31809	Work Pack No:	UMC-PM.D-23-070
Aircraft Type:	AW139	DESC:	UNSCHEDULED
Aircraft Reg:	9M-PM.D.	PAGE:	Of

Description	Part No	Serial Number	Worksheet Ref No. / Item No.	Calibration Due Date
DPHM KIT	PWC71445	2635	umc-pmd-23-070/1	N/L



Document Reference

Document ID	PSE/TQ/2023/125573	Contact	CHE NOR AMANI HUSNA CHE HASSAN
Your Code Reference		Subject	9M-PMD S/N 31809 - TRANSMISSION OVERTORQUE
Topic	TECHNICAL	Subtopic	
Issue		Team Legal Entity	Italy

Contact Details

Customer Description	GALAXY HELICOPTERS(M) SDN BHD	Customer ID	0006005700
Email	amani.galaxyaerospace@gmail.com		

Contacts List

First Name	Last Name	Email	User Type
TECHNICAL	SERVICES	tech.services@galaxyaerospace.my	Engineering Officer

Customer Service

Priority	AOG	Creation On (UTC)	22/09/2023
Resolve By (UTC)	23/09/2023	Leonardo Closure Date (UTC)	25/09/2023
Additional Note			

Helicopter Data

ATA Code	72	Description	ENGINE: TURBINE/TURBOROP RECIPROCATING
Helicopter S/N	NC0031809	Aircraft Tail Number	9M-PMD
Helicopter Line	AW139	Helicopter Model	AW139
Repair	False		



[Handwritten Signature]
25/9/23

Instruction Query	
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Part Number	Component S/N	Component F/H	On (Date)(UTC)
-			

Flight Hours	FH Last Update	Create date
1503.15	29/11/2022	29/11/2022

Ticket Description

Dear LH,

A report has been received from maintenance crew of an overtorque condition to the transmission of 9M-PMD S/N 31809 during OEI training on 22 September 2023. Maintenance crew have downloaded MPFR data on related information and found on the following time stamp HH MM SS 24 53 44. Time-Hour 8, Time-Minute 35, Time-Second 6 with peak value of 127.1 at TQ2, the XmsnCaution_XmsnOvtq showing an over torque condition. Based on IETP, AMP 39-A-00-70-00-05A-28AA-A Item 3.3, "if, with all engines operative, the TQ is 121 thru 125% for more than 10s or it is more than 125%, send the data to the Manufacturer. Then do the recommended inspections." In view of this, we seek your advise on the next course of action. Attached is the zip file for the FDR data on the overtorque condition.

Your help is highly appreciated.

Thank you.

History Log

Roberto Ferrario : 23/9/2023 10:07:17 (UTC) :

Thank you

evaluation is in progress.

We'll come back to you as soon as possible.

Regards

Roberto Ferrario

CHE HASSAN CHE NOR AMANI HUSNA : 23/9/2023 06:23:03 (UTC) :

Dear Mr Roberto,

Below are the information as per requested:

a) FDR data in an excel format

[Refer Attachment](#)

b) MGB data

P/N = 3G6320A00134

S/N = AW858

F/H = 1777.22

LANDINGS = 3093

c) H/C FH and landings

F/H = 1777.22

LANDINGS = 3093

d) HC EPIC SW Phase installed

Phase 7.12

e) HC Status

AOG

Please let me know if you need more information from our side.

Thank you

Roberto Ferrario : 23/9/2023 04:45:04 (UTC) :

Dear Sir,

In order to evaluate your request, we need the following details:

- In order to try to speedup the process, please provide the FDR data in an excel format with at least the NR1, NR2, IAS, TQ1, TQ2, NF1, NF2, WOW switch and XMSN OVTQ CAS msg


25/9/23


information;

- MGB data, such as P/N, S/N, FH and landings;
- H/C FH and landings.
- HC EPIC SW Phase installed

Please also confirm HC status (AOG, in service, maintenance, RTS/next scheduled flight)

Thank you

Best regards
Roberto Ferrario

Closing Note

Dear all,

the FDR analysis has been concluded confirming the reported event which lasted 6 seconds with a maximum recorded peak of 126% Eng.1 and 127% Eng.2. Based on this data, we confirm no actions are needed for this case.

Remaining at your disposal,
Kind regards
Francesco Sgobba

Ticket Attachments

Attachment's Name	Uploading Date
FDR DATA EXCEL.xlsx	23/09/2023
9M-PMD FDR FILE.zip	22/09/2023
Ticket_PSE_TQ_2023_125573.pdf	25/09/2023

 25/9/23




FLT. NO.	FUEL UPLIFT				FUEL TOTAL				OIL UPLIFT		AIRWORTHINESS CHECK				PILOT PRE-FLIGHT / TURN AROUND			
	LH	RH	LH	RH	DEPART	RH	DEPART	RH	ARRIVAL	ENG 1	ENG 2	OTHERS	SIGN**	TIME	TIME	SIGN	AUTH	TIME
1.	575	575	1150	710	13/7/23	1150	1150	710	1605	NIL	NIL	NIL	Judith	1430	1430	J	SEI	1500
	FROM	TO																
	WMSA	WMSA	1600	1605	1655	1700												
	CO-PILOT																	
	VIRAY																	
	LDG																	
	> 6400KG																	
	33 < WS < 45 KTS																	
	45 < WS < 60 KTS																	
	START	STOP	START	STOP														
	START	STOP	START	STOP														
	START	STOP	START	STOP														
	END																	
	HOIST SIN:																	
	LIFT																	
	HOUR																	
	3																	
	3																	

NO.	RECORD OF DEFECT(S). ENTER 'NIL' IF NO DEFECT FOUND	PILOT / ENGINEER SIGN	TIME	NO.	RECTIFICATION(S) TAKEN	MR SIGN**	DATE
M1	1 W CCP DUE 8/22/9/23	Judith	1400	M1	CARRIED OUT FOUND SATISFACTORY REF 9M - PMD - 16912	Judith	22/9/23 1430
M1	TRANSMISSION TRANSMISSION - OVERTORQUE RECORDED ON CAS	J	1700				
M2	HOIST INSP TO CARRY OUT	Judith	1730	M2	CARRIED OUT FOUND SATISFACTORY REF 9M - PMD - 17100	Judith	22/9/23 2000
M3	BY OPERATOR TRX 95-17 REPAIR SYSTEM PN 349500V051 SN 9245 TO BE CLAY	J	25/9/23 1800	M3	CARRIED OUT FOUND SATISFACTORY REF 9M - PMD - 17118	J	25/9/23 1745
				1	TO RAISED, NO ACTION NEEDED REF PSE/18/2023/125573 AND UMC-PMD-23-070.	J	25/9/23 1820
							25/9/22 1845