

# ENGINE MINIPACK

Engine Model: **GE90-90B**

Engine Serial Number: **900** XXXXXXXXXX

ENGINE TIME SINCE NEW	43791:18 Hours
ENGINE CYCLES SINCE NEW	18008 Cycles
TIME SINCE LAST SHOP VISIT	9117:18 Hours
CYCLES SINCE LAST SHOP VISIT	2835 Cycles
LIFE LIMITED PARTS LIMITER	Case, LPT (LL: 17900 Cycles)
CYCLES REMAINING TO LIMITER	1,279

## Last Shop Visit

REPAIR FACILITY	GE Aircraft Engine Service LTD
RELEASE DATE	08 May 2014
RELEASE CERTIFICATION	GACA-S&ER Form 8130-3

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1. COUNTRY: <b>KINGDOM OF SAUDI ARABIA</b>		<b>GACA-S&amp;ER FORM 8130-3</b> <b>AIRWORTHINESS APPROVAL TAG</b>				2. SYSTEM TRACKING REF. NO.: <b>00204</b>		
4. ORGANIZATION: <b>GE AIRCRAFT ENGINE SERVICES LTD</b> <b>CAERPHILLY ROAD, NANTGARW, CARDIFF, CF15 7YJ</b>					5. WORK ORDER / CONTRACTING / INVOICE: <b>PO 3902860</b>			
6. ITEM	7. DESCRIPTION **	8. PART NUMBER	9. ELIGIBILITY*	10. QTY	11. SERIAL / BATCH NUMBER	12. STATUS/WORK		
<b>1</b>	<b>GENERAL ELECTRIC GE90 ENGINE</b>	<b>1650M11G16</b>	<b>N/A</b>	<b>ONE</b>	<b>900-<span style="background-color: black; color: black;">XXXXXXXXXX</span></b>	<b>REPAIRED</b>		
13. REMARKS: <p>(13.1) Engine worked I.A.W. GEAES/Saudi Airlines agreed Workscope reference SGQ/323 and I.A.W. GE90 Engine Manual GEK100700 - Rev 63, Mar 01/2014.</p> <p>(13.2) Hours :34674 since New, Cycles: 15173 since New.</p> <p>(13.3) For Life Limited Part information see Form No. GE/QA/0483 Issue 01. (13.4) For Airworthiness Directive status refer to Form No. GE/QA/0480 Issue 01.</p> <p>(13.5) For Modifications accomplished this visit refer to Form No. GE/QA/0479 Issue 01.</p> <p>(13.6) For items to be carried out by the Operator prior to engine start refer to Form No. GE/GE90/008 Issue 01.</p> <p>(13.7) For Concessions/Departures applicable at this shop visit refer to Form No. GE/QA/0644 Issue 1. (13.8) Engine not Tested at GE Aviation Wales.</p>								
14. <input type="checkbox"/> NEW <input type="checkbox"/> NEWLY OVERHAULED				<input type="checkbox"/> EXPORT <input type="checkbox"/> CONFORMITY				19. RETURN TO SERVICE IN ACCORDANCE WITH GACA/FAA FAR 43.9 <input checked="" type="checkbox"/>
Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with GACA/FAA approved design data and airworthiness regulations. In case of parts to be exported, that the special requirements of the importing have been met.				Certifies that the work specified above except as otherwise specified in block 13 was carried out in accordance with GACA/FAA airworthiness regulations and the part(s) is (are) considered ready for release to service.				
15. SIGNATURE:		16. GACA AUTHORIZATION No.:		20. AUTHORIZED SIGNATURE: <i>CJ Daunt</i> <b>SIG001</b>		21. GACA REPAIR STATION No.: <b>AMO-210F</b>		

# Current LLP Status Report

# Life Limited Parts Summary Report

26-Jan-26

Engine Type: GE90-90B Engine PN : 1650M11G16 SN: 900-  
 Current TSN: 43791:18 Current CSN: 18008  
 TSLSV: 9117:18 CSLSV: 2835

DESCRIPTION	P/ N	S/ N	Last SV DATA					Updating Data								Engine	
			Engine			UNIT		Engine			UNIT					GE90-90B	
			DATE	T.Hrs	T.Cycs	T.S.N	C.S.N	DATE	T.Hrs	T. Cycs	TSLSV	CSLSV	TSN	C.S.N	LL	R.C.	
DISK,STG1 FAN RTR	1844M40G02	GWN0R8PW	08-May-14	34,674	15,173	-	-	26-Jan-2026	43,791	18,008	9,117	2,835	9,117	2,835	20,000	17,165	
SHAFT,BOSTER STG2-4	350-002-774-0	BA728367	08-May-14	34,674	15,173	2,326	687	26-Jan-2026	43,791	18,008	9,117	2,835	11,443	3,522	20,000	16,478	
SHAFT,FORWARD FAN	1767M49G07	IHIH0095	08-May-14	34,674	15,173	34,121	15,160	26-Jan-2026	43,791	18,008	9,117	2,835	43,238	17,995	20,000	2,005	
DISK,HPC STG1	350-040-621-0	LA041734	08-May-14	34,674	15,173	33,579	14,544	26-Jan-2026	43,791	18,008	9,117	2,835	42,696	17,379	20,000	2,621	
SHAFT,HPC STG2-6	350-005-788-0	PA616061	08-May-14	34,674	15,173	6,020	2,313	26-Jan-2026	43,791	18,008	9,117	2,835	15,137	5,148	15,000	9,852	
DISK,HPC STG7	350-000-657-0	BA582263	08-May-14	34,674	15,173	33,579	14,544	26-Jan-2026	43,791	18,008	9,117	2,835	42,696	17,379	20,000	2,621	
SHAFT,HPC STAGES8-10	1844M90G02	GWN0MRW2	08-May-14	34,674	15,173	6,020	2,313	26-Jan-2026	43,791	18,008	9,117	2,835	15,137	5,148	16,700	11,552	
IMPELLER,HPC	350-019-953-0	BA495563	08-May-14	34,674	15,173	33,579	14,544	26-Jan-2026	43,791	18,008	9,117	2,835	42,696	17,379	20,000	2,621	
SEAL,HPC CDP	1847M93P01	GEE1GHCO	08-May-14	34,674	15,173	6,020	2,313	26-Jan-2026	43,791	18,008	9,117	2,835	15,137	5,148	20,000	14,852	
CASE, HPT	1847M55G04	FCP5EA62	08-May-14	34,674	15,173	6,020	2,313	26-Jan-2026	43,791	18,008	9,117	2,835	15,137	5,148	14,700	9,552	
SEAL, HPT AFT	1710M83P05	WIN648PB	08-May-14	34,674	15,173	6,020	2,313	26-Jan-2026	43,791	18,008	9,117	2,835	15,137	5,148	15,000	9,852	
DISK,HPT STAGE2	1711M47G11	GWN0595G	08-May-14	34,674	15,173	25,553	10,847	26-Jan-2026	43,791	18,008	9,117	2,835	34,670	13,682	15,000	1,318	
SEL,HPT INTERSTAGE	2453M60P01	NCE669LA	08-May-14	34,674	15,173	-	-	26-Jan-2026	43,791	18,008	9,117	2,835	9,117	2,835	15,000	12,165	
SEAL,HPT FORWARD	1847M94P03	NCE9793W	08-May-14	34,674	15,173	20,947	8,759	26-Jan-2026	43,791	18,008	9,117	2,835	30,064	11,594	15,000	3,406	
DISK,HPT STAGE 1	1847M95G04	GWN0T40D	08-May-14	34,674	15,173	-	-	26-Jan-2026	43,791	18,008	9,117	2,835	9,117	2,835	15,000	12,165	
SHAFT,LPT FAN MID	1767M84G02	IHIN0580	08-May-14	34,674	15,173	6,020	2,313	26-Jan-2026	43,791	18,008	9,117	2,835	15,137	5,148	11,100	5,952	
DISK,LPT STAGE1	1767M32P03	IHIC0193	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	
DISK,LPT STAGE2	1767M77P02	IHID0189	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	
DISK,LPT STAGE3	1767M78P02	IHIE0192	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	
DISK,LPT STAGE 4	1767M79P02	IHIF0170	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	
DISK,LPT STAGE 5	1767M36P02	IHIG0190	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	
DISK,LPT STAGE 6	1764M27P06	FIA033WE	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	
SHAFT,LPT CONE	1767M80G01	IHIP0178	08-May-14	34,674	15,173	33,038	14,024	26-Jan-2026	43,791	18,008	9,117	2,835	42,155	16,859	20,000	3,141	

# **Non-Incident Statement**



## SAUDI ARBIAN AIRLINES

### Incident/Accident Clearance Statement

To Whom It May Concern:

Aircraft HZ-A [REDACTED] MSN 28 [REDACTED] details of which are specified below, has been operated by SAUDI ARBIAN AIRLINES during the period from 31. Dec.1997 to 20.Feb.2017.

Configuration details as of date of this statement.

Description	Type/Part No.	Serial No.	TSN	CSN
Aircraft	Boeing 777-200	28 [REDACTED]	51504:04	18638
Engine	1650M11G17	90 [REDACTED]	43791:18	18008
APU	3800550-1	P-2207	9333:52	3085
NLG	654W0012-12	MC0106P0101	49343:04	17466
MLG	654W0011-41	MC0208P0101	49343:04	17466
MLG	654W0011-40	MC0209P0101	50156:38	17799

I hereby certify that, to the best of my knowledge, during the period stated above:

- Neither the aircraft, nor any part installed have been:
  - damaged during, or identified as the root cause of, a reportable incident or accident as defined by Annex 13 to the Chicago Convention, or
  - subjected to severe stress or heat (such as in a major engine failure, accident, or fire) or has been submersed in salt water,


unless its airworthiness status was re-established by an approved maintenance organization in accordance with the applicable airworthiness regulations and instructions of the type certificate holder and/or supplemental type certificate holder and/or OEM of the part and supported by an authorized airworthiness release certificate.

- No part has been installed on the aircraft which was obtained from a military source or was previously fitted to a state aircraft as deemed by Article 3 of the Chicago Convention.

Authorized Airline Representative

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

  
Nawaf Al-Johani

# Operating History

To Whom It May Concern

**Non-Operation Statement**

This is to certify that Aircraft HZ- [REDACTED] details of which are specified below, has remained non-operational during the period from 20 Feb 2017 until Redelivery Date: 6 March 2025.

<b>Description</b>	<b>Type / Part No.</b>	<b>Serial No.</b>	<b>TSN (HRS)</b>	<b>CSN (CYC)</b>
<b>Aircraft</b>	Boeing 777-200	283 [REDACTED]	51504:04	18638
<b>Engine #1</b>	1650M11G16	900-169	38666:08	15315
<b>Engine #2</b>	1650M11G16	900 [REDACTED]	43791:18	18008
<b>APU</b>	3800550-1	P-2207	9333:52	3085
<b>NLG</b>	654W0012-12	MC0106P0101	49343:04	17466
<b>MLG (LH)</b>	654W0011-41	MC0208P0101	49343:04	17466
<b>MLG (RH)</b>	654W0011-40	MC0209P0101	50156:38	17799

**Certification Statement**

**This is to certify that, to the best of our knowledge** and based on the records available after operation ended on 20 Feb. 2017, the above aircraft (MSN 28 [REDACTED]) was stored at RUH Airport in a controlled and secure environment, and was not subject to any incident, accident, or operation during the storage period.

The aircraft has not been operated and has not accumulated any additional flight hours or cycles from 20 Feb. 2017 until the date of this statement.

No flights have been conducted during the parking period, and no engines or components have been removed, installed, or replaced during this time.

Reviewed by Signature:  \_\_\_\_\_

Name: Tengku Hawari

# **Power Plant Build Up Listing (QEC and Accessory Items)**

USA

GE Aircraft Engine Services Ltd.

Date :- 08.05.2014

## Controls and Accessories Status

ESN	Engine Model	Shop Order Number	Engine TSN	Engine CSN
900 [REDACTED]	GE90-94B	SGQ323	34674	15173

Item #	IIN	Item Name	Typical Mfg. PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
1		AIR COOLER, EAI CONTROLLER	808640-3	0007100021101 005	808640-3	9802038	1		808640-3	9802038	1	NOT TRKD	Inspected
2		AIR COOLER, ASCS CONTROLLER	808640-4	0007100021101 015	808640-4	9802055	1		808640-4	9802055	1	NOT TRKD	Inspected
3		HP/ FAV CONTROLLER	S210W110-1516	0007100021101 075	S210W110-1516	698	1		3399100-20	836	1	NOT TRKD	Inspected
4		QAD RING	S281W101-8	0007100021601 015	S281W101-8	0219	1		S281W101-8	0219	1	NOT TRKD	Inspected
5		IDG ASSY		0007100021601 035					SHIP SHORT				
6		IDG CHECK VALVE		0007100021601 065					SHIP SHORT				
7		IDG CHECK VALVE		0007100021601 075					SHIP SHORT				
8		GENERATOR (BACK-UP OR VSCF)		0007100021701 030					SHIP SHORT				
9		CHECK VALVE (VSCF)		0007100021701 075					SHIP SHORT				
10		HYDRAULIC PUMP	972952	0007100021901 001	972952	MX-587042	1		972952	MX-587042	1	NOT TRKD	Inspected
11		CHECK VALVE (HYD)	S271W811-5	0007100022001 005	S271W811-5		1		S271W811-5		1	NOT TRKD	Inspected
12		FIRE DETECTOR AFT (LOWER)	473581-1	0007100022101 080	473581-1	0256	1		473581-1	0256	1	NOT TRKD	Inspected
13		FIRE DETECTOR AFT (LEFT)	473583-3	0007100022101 110	473583-3	5033	1		473583-3	5033	1	NOT TRKD	Inspected
14		FIRE DETECTOR AFT RIGHT	473584-1	0007100022101 140	473584-1	0339	1		473584-1	0339	1	NOT TRKD	Inspected



USA

Date :- 08.05.2014

## Controls and Accessories Status

ESN	Engine Model	Shop Order Number	Engine TSN	Engine CSN
900	GE90-94B	SGQ323	34674	15173

Itm #	IIN	Item Name	Typical Mfg.PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
33		HARNESS W724 (DAC II)	320-387-202-0	0007322800005 715	320-387-202-0	YH485012-D	1		320-387-202-0	YH485012-D	1	NOT TRKD	Repaired
34		HARNESS W723		0007322800010 010									N/A
35		HARNESS W723 (DAC II)	320-387-102-0	0007322800010 015	320-387-102-0	YH480037-R	1		320-387-102-0	YH480406-B	1	NOT TRKD	new
36		HARNESS W726		0007322800010 110									N/A
37		HARNESS W726 (DAC II)	320-410-202-0	0007322800010 115	320-410-202-0	YH495052-A	1		320-410-202-0	YH495052-A	1	NOT TRKD	Repaired
38		HARNESS W729	320-397-905-0	0007322800010 340	320-397-905-0	YH085163-T	1		320-397-905-0	YH085163-T	1	NOT TRKD	Repaired
39		HARNESS W725		0007322800010 530									N/A
40		HARNESS W725 (DAC II)	320-410-102-0	0007322800010 535	320-410-102-0	YH490052-V	1		320-410-102-0	YH490062	1	NOT TRKD	Repaired
41		HARNESS W727	320-410-301-0	0007322800010 770	320-410-301-0	YH075116-B	1		320-410-301-0	YH075116-B	1	NOT TRKD	Repaired
42		HARNESS W728	320-410-401-0	0007322800010 840	320-410-401-0	YH080331-Y	1		320-410-401-0	YH080331-Y	1	NOT TRKD	Repaired
43	741	EXCITER-IGNITION (TOP)	10-631045-2	0007411100001 010	10-631045-2	UNNEK778	1		9238M66P08	UNNEK778	1	NOT TRKD	Inspected
44	741	EXCITER-IGNITION (BOTTOM)	9238M66P08	0007411100001 030	9238M66P08	EK356	1		9238M66P08	EK356	1	NOT TRKD	Inspected
45		LEAD-IGNITION (TOP)	9048235-2	0007421100001 010	9048235-2	UNN4B387	1		9048235-2	UNN4B387	1	NOT TRKD	Inspected
46		LEAD-IGNITION (BOTTOM)	9048235-2	0007421100001 050	9048235-2	UNN4B385	1		9048235-2	UNN4B385	1	NOT TRKD	Inspected

USA

Date :- 08.05.2014

## Controls and Accessories Status

ESN	Engine Model	Shop Order Number	Engine TSN	Engine CSN
900 [REDACTED]	GE90-94B	SGQ323	34674	15173

Itm #	IIN	Item Name	Typical Mfg.PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
49	771	SENSOR-N1 SPEED	320-802-603-0	0007711100001 010	320-802-603-0	YJ000116-K	1		320-802-603-0	YJ000116-K	1	NOT TRKD	Inspected
50	772	SENSOR-N2 SPEED	320-802-401-0	0007711100005 010	320-802-401-0	YJ005166-Y	1		320-802-401-0	YJ005166-Y	1	NOT TRKD	Inspected
51	77M	PROBE-TC (T49)	863-1-11	0007721000001 010	863-1-11	B2228	1		863-1-11	B2228	1	NOT TRKD	Inspected
52		PROBE-TC (T49)							863-1-11	B2273	1	NOT TRKD	Inspected
53		CABLE-T49 EGT	7-20275-2	0007721100001 010	7-20275-2	PMAFG710	1		7-20275-2	PMAFG710	1	NOT TRKD	Inspected
54		CABLE-T49 AND T5 SENSOR	2044M22P01	0007721100005 010	2044M22P01	LBGFH800	1		7-21248-1	PMAFH936	1	NOT TRKD	new
55	77H	PROBE-T5 SENSOR		0007721500001 010	MAI								
56	71K	PYROMETER	699-108	0007721600001 010	699-108	LWDA0252	1		1692M85P06	LWDA0359	1	NOT TRKD	Inspected
57		ACCELEROMETER-TURBINE	350-714-302-0	0007731300001 010	350-714-302-0	YV050924	1		350-714-302-0	YV050924	1	NOT TRKD	Inspected
58		ACCELEROMETER-BACK UP		0007731300005 010					SHIP SHORT				
59		ACCELEROMETER	144-159-000-041	0007731300010 010	144-159-000-041	YV040747-D	1		144-159-000-041	YV040747-D	1	NOT TRKD	Inspected
60		SENSOR-TEMP OIL SUPPLY	132ABK	0007900000010 360	132ABK	EGN69964	1		132ABK	EGN69964	1	NOT TRKD	Inspected
61		SENSOR-TEMP (IDG IN)	132ABK	0007900000035 100	132ABK	EGN69687	1		132ABK	EGN69687	1	NOT TRKD	Inspected
62		TEMP SENSOR (IDG OUT)	132ABK	0007900000035 200	132ABK	EGN69960	1		132ABK	EGN69960	1	NOT TRKD	Inspected

USA

GE 90-94B Engine Services

Date :- 08.05.2014

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900 [REDACTED]	GE90-94B	SGQ323	34674	15173

Itm #	IIN	Item Name	Typical Mfg.PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
65	T68	SENSOR-OIL PRESSURE (PUMP)	APT-7B-1500-7BARD	0007932100001 010	APT-7B-1500-7BARD	BNK900218	1		APT-7B-1500-7BARD	BNK-19847	1	NOT TRKD	Inspected
66	T81	SENSOR-OIL PRESSURE (OIL-OIL COOLER)	APT-7B-1500-7BARD	0007932100001 040	APT-7B-1500-7BARD	PRE-13020	1		APT-7B-1500-7BARD	PRE-13020	1	NOT TRKD	Inspected
67		NOZZLE ASSY-PRIMARY		1007200000016 400	MAI								
68		CENTREBODY ASSY-AFT		1007200000016 450	MAI								
69		CENTREBODY ASSY FWD		1007200000016 500	MAI								
70		PRSOV CONTROLLER		1707100021101 250								SHIP SHORT	
71		OVERHEAT DETECTOR, FAN CASE		1707100022101 005								SHIP SHORT	
72		B HARNESS W0770		1707100022301 005								SHIP SHORT	
73		B HARNESS W0771		1707100022301 040								SHIP SHORT	
74		HARNESS W707		1707200060005 010								SHIP SHORT	
75		HARNESS W703		1707200060005 030								SHIP SHORT	
76		HARNESS W701		1707200060005 050								SHIP SHORT	
77		HARNESS W709		1707200060005 070								SHIP SHORT	
78		HARNESS W705		1707200060005 100								SHIP SHORT	

USA

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Itm #	IIN	Item Name	Typical Mfg.PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
81		HARNESS W704		1707200060005 160					SHIP SHORT				
82		HARNESS W708		1707200060005 180					SHIP SHORT				
83		HARNESS W711		1707200060005 200					SHIP SHORT				
84	791	TANK ASSY-OIL		1707200060015 800					SHIP SHORT				
85	ECU	ELECTRONIC CONTROL UNIT		1707321600005 010					SHIP SHORT				
86		SENSOR DMS		1707921300005 010					SHIP SHORT				
87	06C	BOX-DMS		1707921400001 010					SHIP SHORT				
88		SENSOR OIL LEVEL		1707931400001 010					SHIP SHORT				
89		VALVE-MANUAL RELEASE		8007200000004 010					SHIP SHORT				
90	74J	VALVE-LPT ACC	5910503-102	AC	5910503-102	PFBALB79	1		5910503-102	PFBALB79	1	34674	Visual Inspection O
91	701	AIR STARTER	3505830-9	AS	3505830-9	YG005173-4C	1		3505830-9	YG005173-4C	1	9622	Visual Inspection O
92		STATIC ANTI-LEAK VALVE	350-714-802-0	AV	350-714-802-0	YT040159-J	1		350-714-802-0	YT040159-J	1	12580	Visual Inspection
93	74A	VALVE-CCC	5910504-104	CC	5910504-104	PFBAKW98	1		5910504-104	PFBAKW98	1	906020	Visual Inspection O
94	748	CONTROL ALTERNATOR STATOR	9049385-5	CS	9049385-5	UNNSA504	1		9049385-5	UNNSA504	1	0	Complete Overhaul

USA

Date :- 08.05.2014

## Controls and Accessories Status

ESN	Engine Model	Shop Order Number	Engine TSN	Engine CSN
900 [REDACTED]	GE90-94B	SGQ323	34674	15173

Itm #	IIN	Item Name	Typical Mfg. PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
97		EAI CONTROLLER	810503-6	EI	810503-6	0549	1		810503-6	0549	1	906020	Repair
98	733	FUEL FILTER (ASSEMBLY)	1691M44P03	FF	1691M44P03	APF57862	1		1691M44P03	APF57862	1	27090	Visual Inspection
99	735	FUEL NOZZLE	GE90FN	FN	GE90FN	NK900218	1		GE90FN	NK900218	1	27264	TEST AND REPAIR
100	731	FUEL PUMP	828500-3	FP	828500-3	ATC90173	1		828500-3	ATC90173	1	0	Complete Overhaul
101	05D	TRANSMITTER-FUEL FLOW	8TJ124ERF1	FT	8TJ124ERF1	GDB2931L	1		8TJ167ERG1	GDB2701M	1.0	906758	Repaired
102	737	HMU (73-21-60-1)	8061-687	HM	8061-687	WYG97337	1		8061-687	WYG94736	1	12122	Visual Inspection
103	744	HPT ACC VALVE	5910500-106	HV	5910500-106	PFBAMC59	1		5910500-106	PFBAMC59	1	27596	Visual Inspection O
104	T75	IDG / VSCP AIR / OIL COOLER	UA541462-8	IC	UA541462-8	UDDD0141	1		UA541462-8	UDDD0141	1	35205	Repair
105	05B	IDG FUEL / OIL COOLER	UA541464-4	IF	UA541464-4	UDDP0290	1		UA541464-4	UDDP0290	1	12580	RIG/BENCH CHECK
106	05A	LUBE / SERVO / FUEL / OIL COOLER	UA541461-12	LS	UA541461-12	UDDC0323	1		UA541461-12	UDDC0323	1	12580	RIG/BENCH CHECK
107	792	LUBE UNIT	350-328-009-0	LU	350-328-009-0	DA123382-F	1		350-328-009-0	DA123382-F	1	0	Complete Overhaul
108		HP SHUT OFF VALVE	3215302-5	SO	3215302-5	1145	1		3215302-5	1145	1	906020	Repair
109		VALVE - STARTER AIR	3290976-4	SV	3290976-4	YG000119-J	1		3290976-4	YG000127-5	1	906536	Visual Inspection O
110	754	VARIABLE BY-PASS VALVE ACTUATOR LH	1694M81P05	VB1	1694M81P05	PHU00263	1		1694M81P05	PHU00263	1	35205	Visual Inspection O

USA

GE AIRCRAFT ENGINE SERVICES LLC.

Date :- 08.05.2014

## Controls and Accessories Status

ESN	Engine Model	Shop Order Number	Engine TSN	Engine CSN
900 [REDACTED]	GE90-94B	SGQ323	34674	15173

Itm #	IIN	Item Name	Typical Mfg.PN	IPC/PPBM Item	Received			TSO	Shipped			TSO	Work Accom.
					PN	SN	QTY		PN	SN	QTY		
113	752	VARIABLE STATOR ACTUATOR L/H	350-713-102-0	VS1	350-713-102-0	YM000524-E	1	6020	351-702-201-0	YM000420-4	1	0	Complete Overhaul
114	752	VARIABLE STATOR ACTUATOR R/H	350-713-102-0	VS2	350-713-102-0	YM000481-0	1		350-713-103-0	YM000524-E	1	0	Complete Overhaul

Authorized Signature:

*C J Davies*

Print Name:

C J DAVIES

Release Date:

8.5.2014

# **Airworthiness Directive Compliance Status**

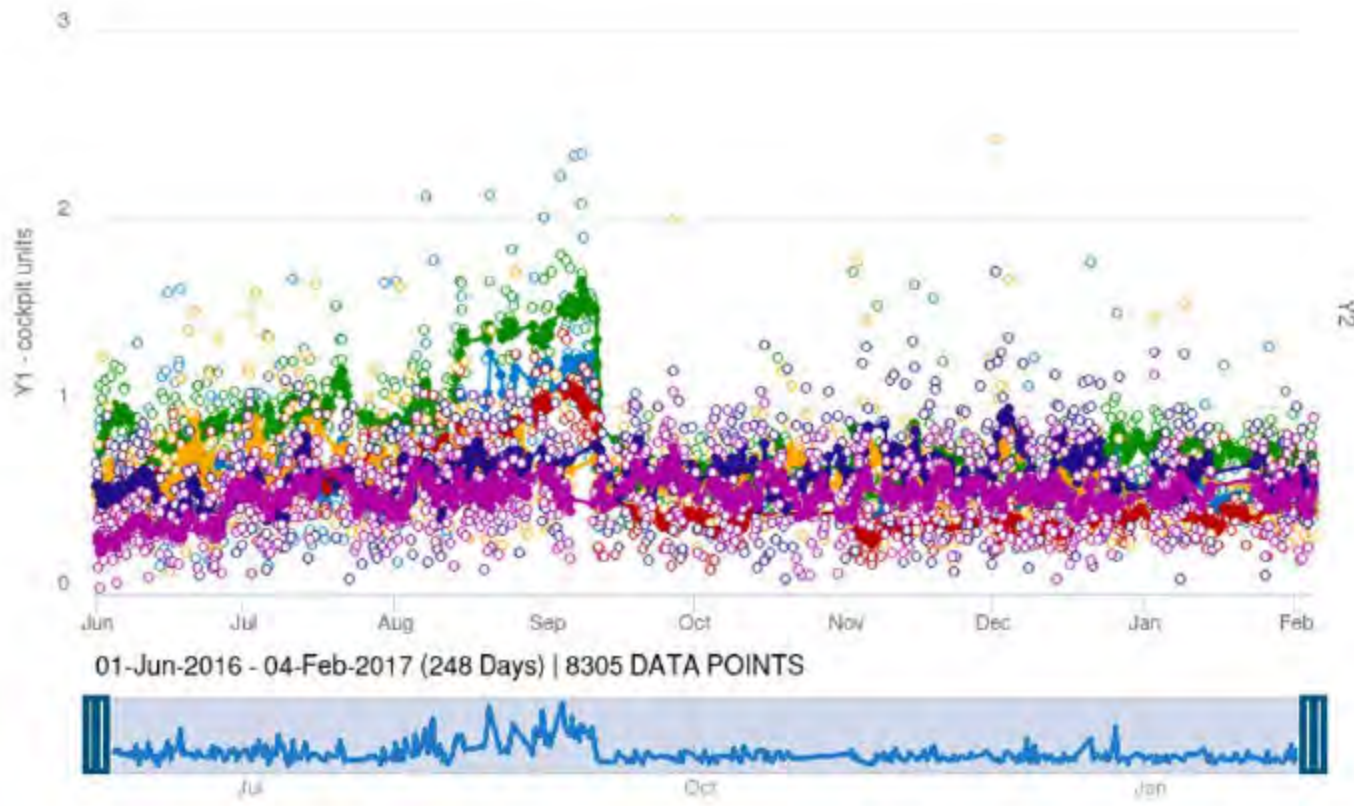
CAFFE	ISSUE NUMBER	REV. NO.	ISSUE DATE	RELEASED BY	DESCRIPTION	APPLICABILITY	STATUS
GE	<a href="#">2023-26-07</a>	0	27-Feb-24	GE90 SB 72-1223	The FAA is adopting a new airworthiness directive (AD) for certain General Electric Company (GE) Model GE90-90B, GE90-94B, GE90-110B1, and GE90-115B engines. This AD was prompted by a manufacturer investigation that revealed certain high-pressure turbine (HPT) stage 1 disks, HPT stage 2 disks, forward HPT rotor seals, interstage HPT seals, and stages 7-9 compressor rotor spools were manufactured from powder metal material suspected to contain iron inclusion. This AD requires replacement of affected HPT stage 1 disks, HPT stage 2 disks, forward HPT rotor seals, interstage HPT seals, and stages 7-9 compressor rotor spools.	O/T	NOT APPLICABLE
GE	<a href="#">2023-05-17</a>	0	10-May-23	GE90 SB 72-1166	perform an initial borescope inspection (BSI) of the forward platforms of the HPT stage 2 blades, or perform a 360 degree BSI of the leading edges of the HPT stage 2 nozzles (optional procedure) in accordance with the Accomplishment Instructions, paragraph 3.A.(3)(a) of GE GE90 SB 72-1166, Revision 3, dated February 14, 2019 (the SB).	REPETITIVE	NOT APPLICABLE
GE	<a href="#">2022-23-09</a>	0	17-Jan-23	IAW AD	This AD applies to General Electric Company GE90-90B, GE90-94B, GE90-110B1, and GE90-115B model turbofan engines with an installed high-pressure turbine (HPT) stage 1 disk, HPT stage 2 disk, or stages 7-9 compressor rotor spool with a part number (P/N) and serial number (S/N) identified in Table 1		OPEN
GE	<a href="#">2022-18-06</a>	0	26-Oct-22	GE90SB 72-1211	For affected GE90-76B, GE90-85B, GE90-90B, and GE90-94B model turbofan engines, before the interstage HPT rotor seal, P/N 2629M47P01 and S/N NCU5430D, accumulates 7,400 cycles since new, remove the affected interstage HPT rotor seal from service and replace with a part eligible for installation.	N/A	NOT APPLICABLE
GE	<a href="#">2021-26-06</a>	0	15-Feb-22	GE90 SB 72-1201	The FAA is adopting a new airworthiness directive (AD) for certain General Electric Company (GE) GE90 model turbofan engines. This AD was prompted by two separate in-flight shutdowns (IFSDs) resulting from failure of the transfer gearbox (TGB) radial bevel gear (TGB radial gearshaft). This AD requires visual inspection of the TGB radial gearshaft and, depending on the results of the inspection, replacement of the TGB radial gearshaft. The FAA is issuing this AD to address the unsafe condition on these products.		NOT APPLICABLE
GE	<a href="#">2018-17-12</a>	0	24-Sep-18	GE GE90 SB 73-0146	B777-TO PREVENT FAILURE OF THE HIGH PRESSURE COMPRESSOR (HPC). FADEC software need update by new version.		OPEN
GE	<a href="#">2017-08-06</a>	0	22-May-17	GE SB GE90-100 S/B 79-0034	B777-ENGINE-PREVENT FAILURE OF A MAIN FUEL OIL HEAT EXCHANGER	O/T	NOT APPLICABLE
GE	<a href="#">2017-08-05</a>	0	19-May-17	AD 2016-13-05	B777-200-ENGINE-PREVENT FAILURE OF THE HPC STAGE 8-10 SPOOL; perform an on-wing ultrasonic inspection (USI) / Perform an initial (ECI) at the next shop visit after	REPETITIVE	NOT APPLICABLE
GE	<a href="#">2016-19-09</a>	0	4-Nov-16	GE SB 72-1142	B777-ENGINE-PREVENT FAILURE OF THE HPC STAGE 8-10 SPOOL	O/T	OPEN
GE	<a href="#">2015-27-01</a>	0	27-Jan-16		B777-ENGINE-PREVENT FAILURE OF THE HPC STAGE 8-10 SPOOL.		NOT APPLICABLE
GE	<a href="#">2013-17-07</a>	0	18-Oct-13		B777- ENGINE - PREVENT FAILURE OF STAGE 1 HPT STATOR SHROUDS.	O/T	NOT APPLICABLE
GE	<a href="#">2013-15-20</a>	0	21-Aug-13		General Electric Company (GE) GE90-76B, GE90-77B, GE90-85B, GE90-90B, GE90-94B, GE90-110B1, GE90-113B and GE90-115B turbofan engines with a transfer gearbox assembly (TGB) radial gearshaft, part number (P/N) 1995M24P02, serial number (S/N) listed in Figure 1		NOT APPLICABLE
GE	<a href="#">2011-15-06</a>	0	18-Aug-11		This AD requires initial and repetitive fluorescent penetrant inspections (FPIs) and eddy current inspections (ECIs) of the high-pressure compressor rotor (HPCR) 8-10 stage spool, part numbers (P/Ns) 1844M90G01 and 1844M90G02, for cracks between the 9-10 stages at each piece-part exposure.	REPETITIVE	OPEN
GE	<a href="#">2002-04-11</a>	0	8-Apr-02		INSPECTION OF SELECTED CRITICAL LIFE-LIMITED PARTS AT EACH PIECE-PART EXPOSURE.	REPETITIVE	NOT APPLICABLE
GE	<a href="#">2002-01-27</a>	0	14-Feb-02	ASB No. GE90 72-A0357	SECURIT CONSIDERATION IN THE DESIGN OF THE FLIGHTDECK ON TRANSPORT CATEGORY AIRPLANES		NOT APPLICABLE
GE	<a href="#">2002-01-12</a>	0	26-Feb-02		Prevent failure of the HPT interstage seal that could result in an uncontained engine failure and damage to the airplane.		NOT APPLICABLE
GE	<a href="#">2001-21-03</a>	0	26-Nov-01	SB GE90 75-0031, R3 ASB GE90 73-A0060 NPRM-99-NE-62-AD	REMOVAL/INSTALLATION OF SERVICE HIGH PRESSURE TURBINE INTERSTAGESEALS.	O/T	CLOSED
GE	<a href="#">2000-03-02</a>	0	4-Apr-00		B777-268 - REDUCTION OF CYCLIC LIFE LIMITS FOR CERTAIN FAN MID SHAFTS		NOT APPLICABLE
GE	<a href="#">97-12-04</a>	0	27-Jun-97		To prevent inflight engine power loss or shutdown due to liberated CDP manifold material.		NOT APPLICABLE
GE	<a href="#">97-12-05</a>	0	27-Jun-97	GE SB No. 72-386	To prevent a Variable Speed Constant Frequency (VSCF) gearshaft flange ball bearing failure		NOT APPLICABLE

# Engine Performance Data

Time Range

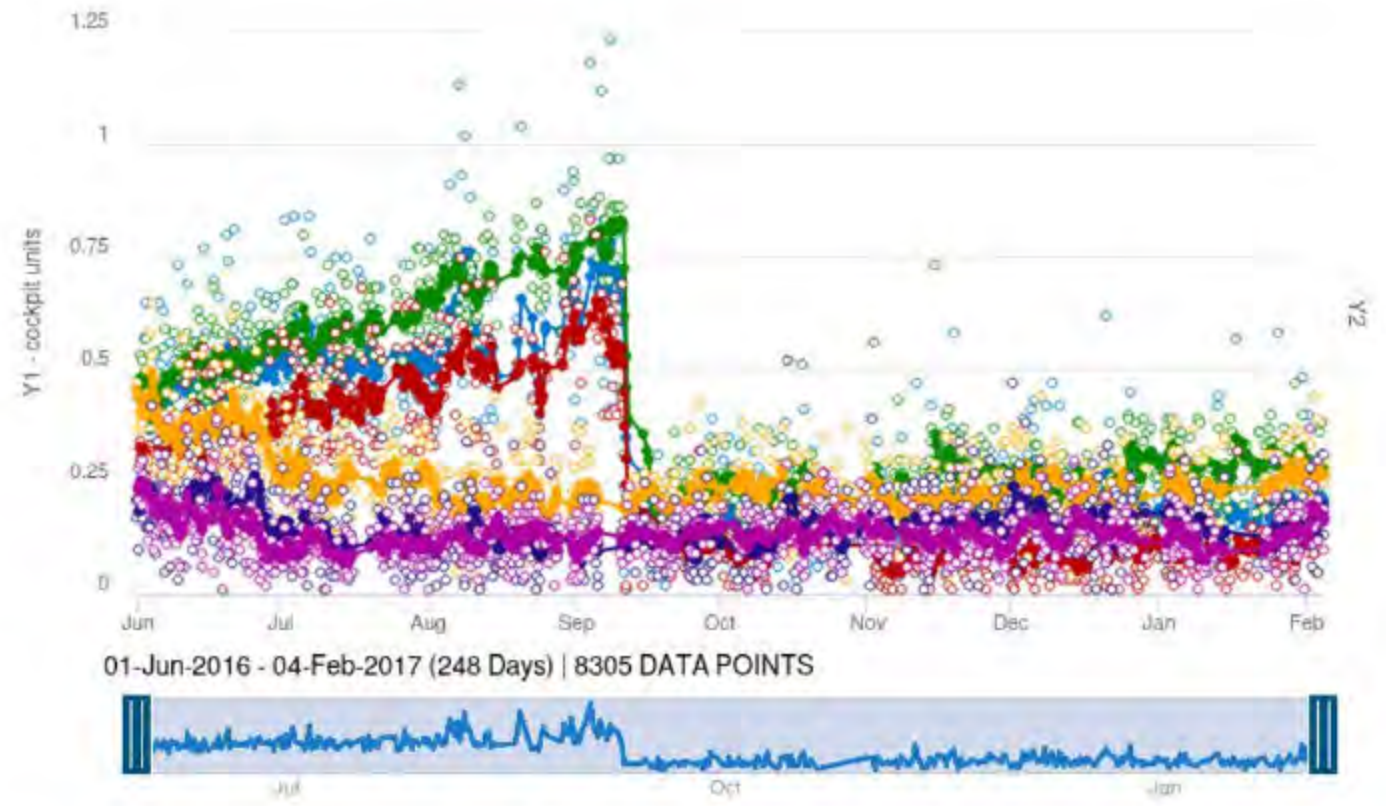
custom - 2016-06-01 - 2017-02-04

Plot 1



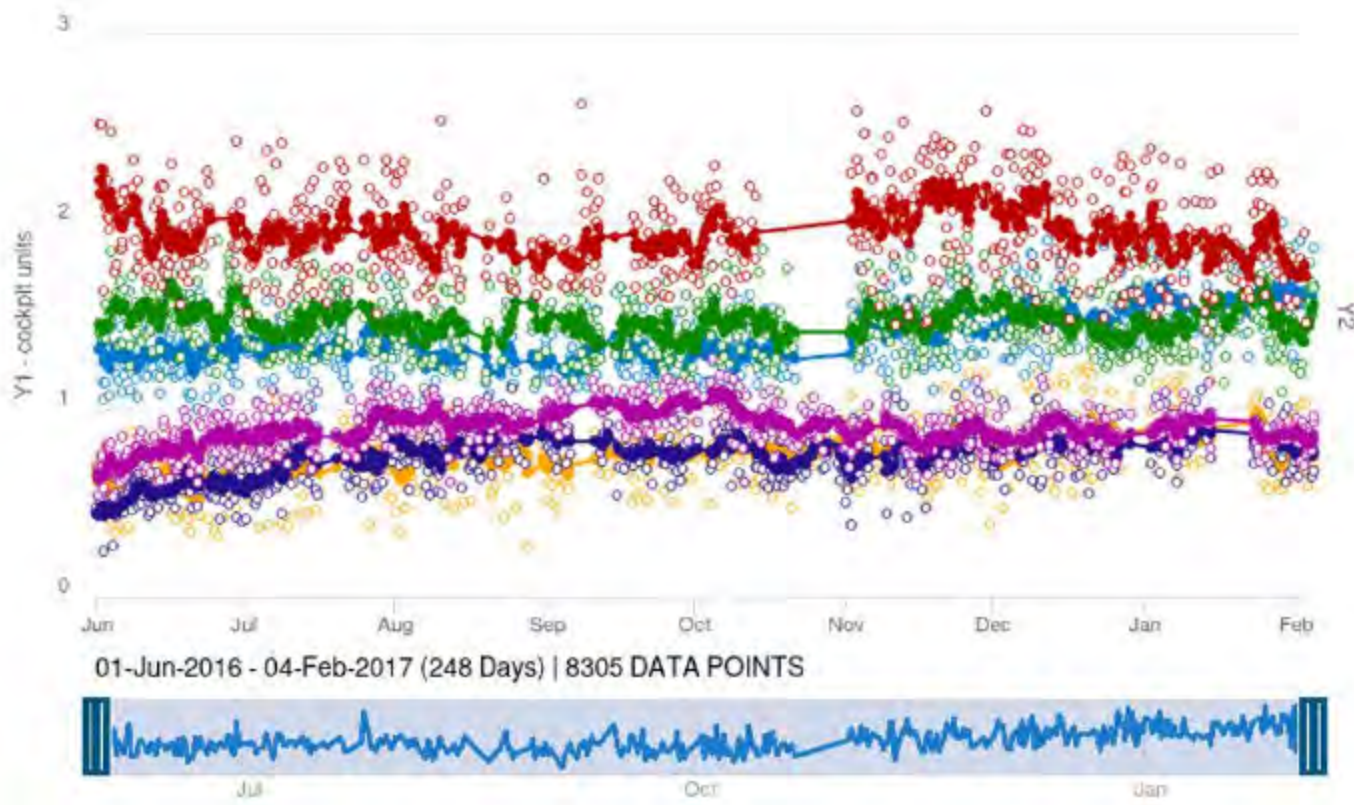
- Y1 - Fan Vibration Forward | TAKEOFF | Raw
- ① 900169 ② 900218
- Y1 - Fan Vibration Forward | TAKEOFF | Smoothed
- ① 900169 ② 900218
- Y1 - Fan Vibration Forward | CLIMB | Raw
- ① 900169 ② 900218
- Y1 - Fan Vibration Forward | CLIMB | Smoothed
- ① 900169 ② 900218
- Y1 - Fan Vibration Forward | CRUISE | Raw
- ① 900169 ② 900218
- Y1 - Fan Vibration Forward | CRUISE | Smoothed
- ① 900169 ② 900218

Plot 2



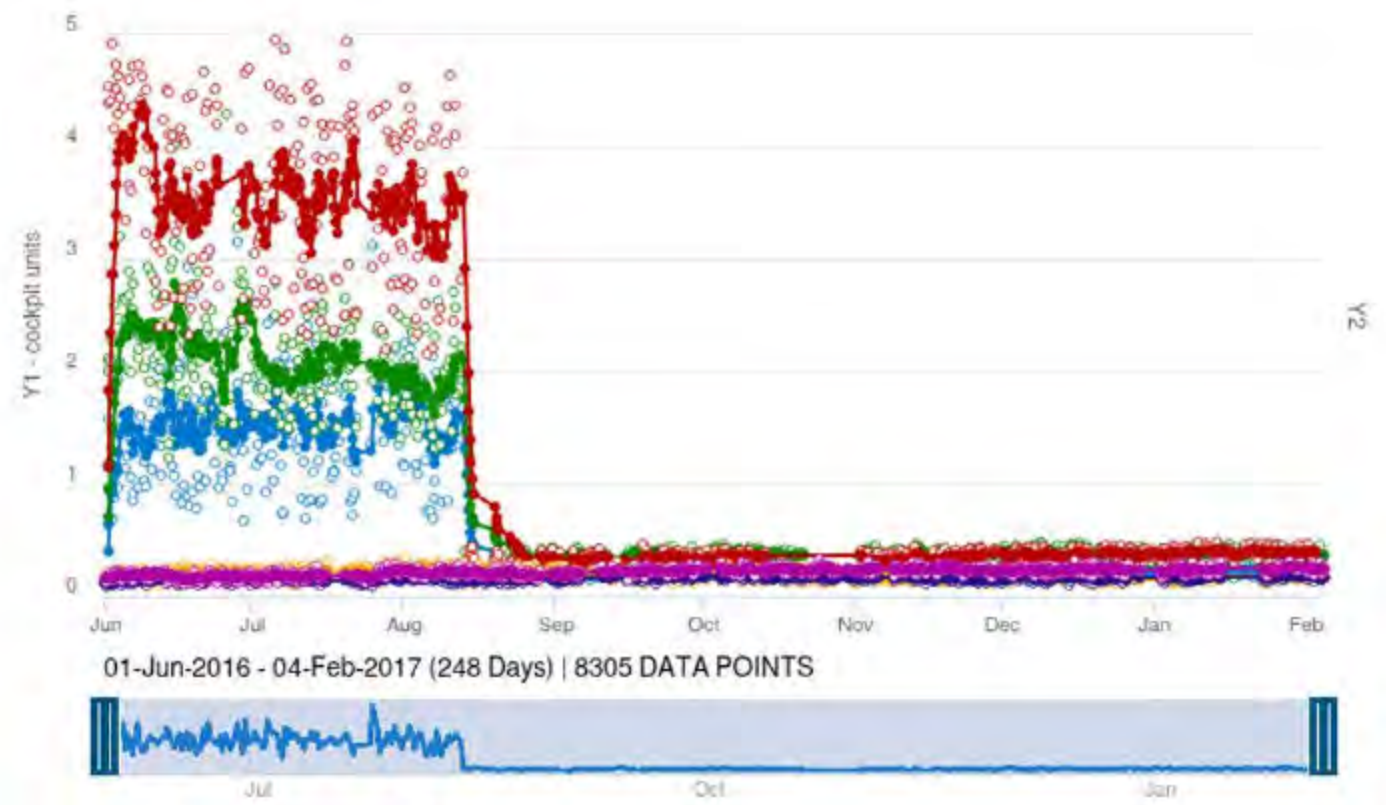
- Y1 - Fan Vibration Rear | TAKEOFF | Raw
- ① 900169 ② 900218
- Y1 - Fan Vibration Rear | TAKEOFF | Smoothed
- ① 900169 ② 900218
- Y1 - Fan Vibration Rear | CLIMB | Raw
- ① 900169 ② 900218
- Y1 - Fan Vibration Rear | CLIMB | Smoothed
- ① 900169 ② 900218
- Y1 - Fan Vibration Rear | CRUISE | Raw
- ① 900169 ② 900218
- Y1 - Fan Vibration Rear | CRUISE | Smoothed
- ① 900169 ② 900218

Plot 3

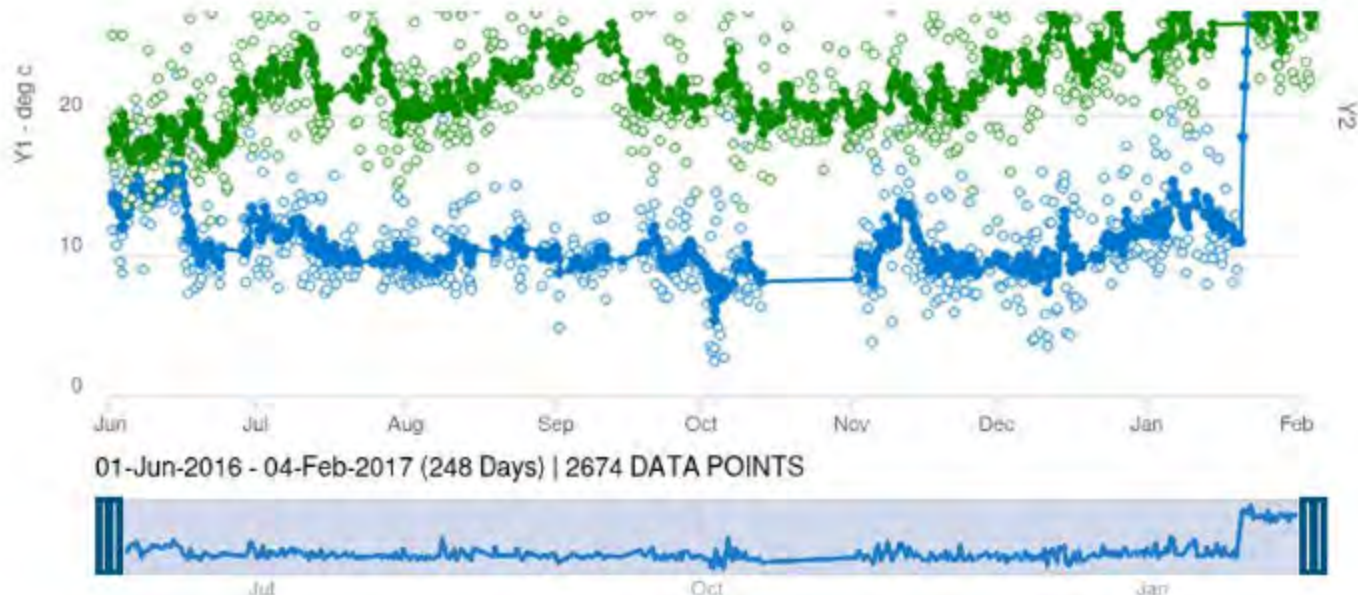


- Y1 - Core Vibration Rear | TAKEOFF | Raw
- ① 900169 ② 900218
- Y1 - Core Vibration Rear | TAKEOFF | Smoothed
- ① 900169 ② 900218

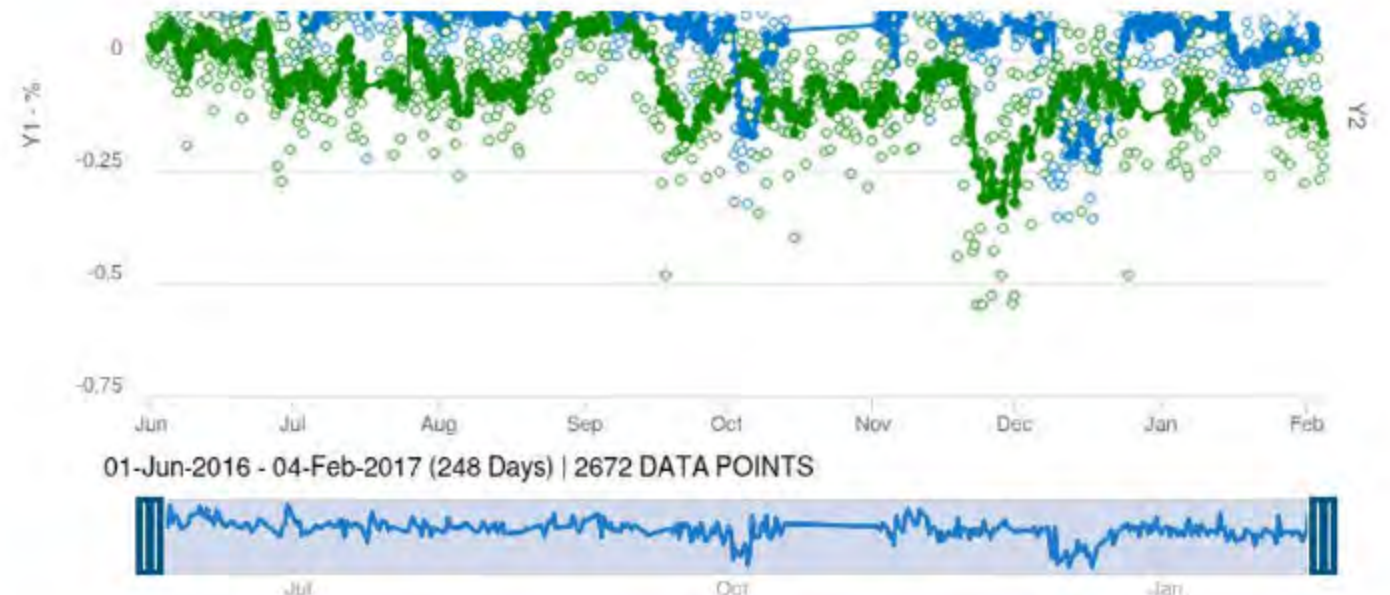
Plot 4



- Y1 - Core Vibration Forward | TAKEOFF | Raw
- ① 900169 ② 900218
- Y1 - Core Vibration Forward | TAKEOFF | Smoothed
- ① 900169 ② 900218

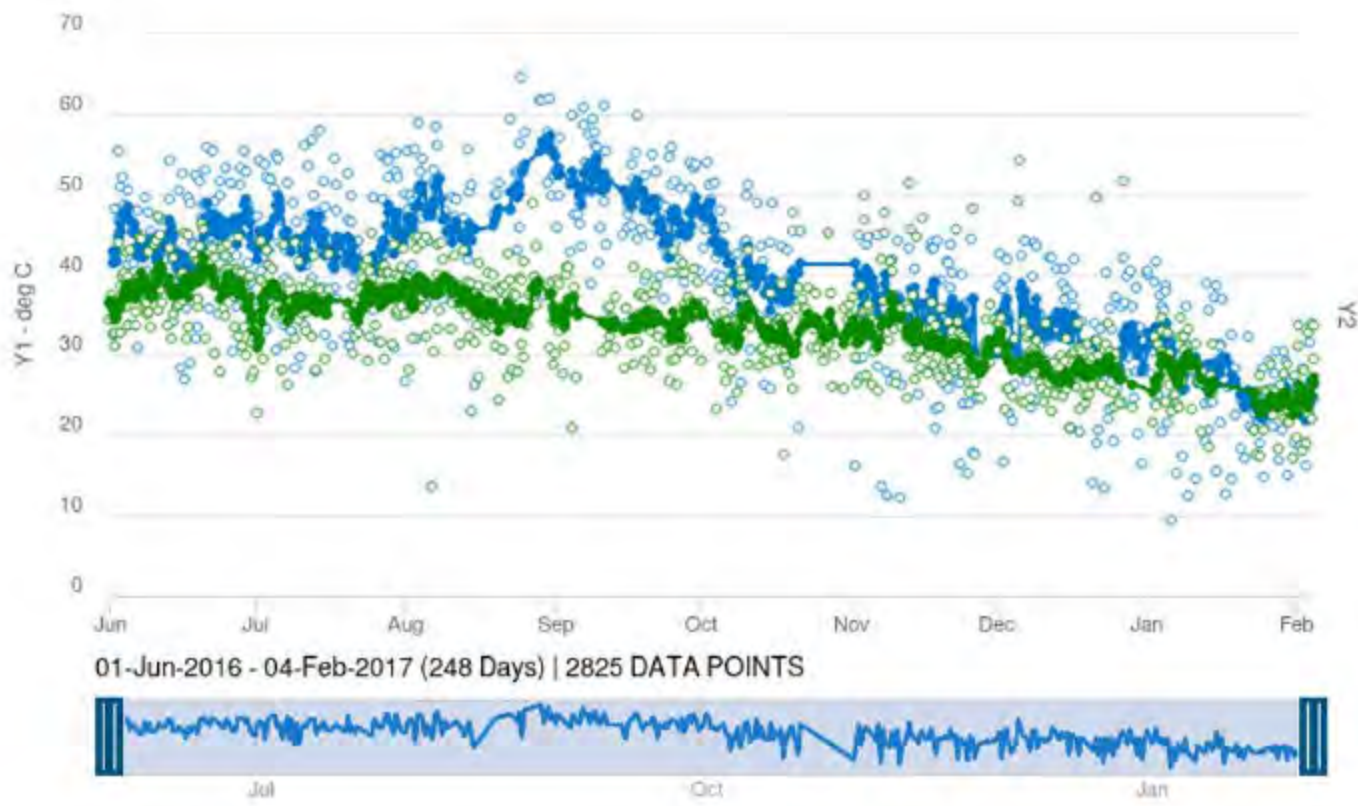


Y1 - Delta EGT | CRUISE | Raw  
 ① 900169 ② 900218  
 Y1 - Delta EGT | CRUISE | Smoothed  
 ① 900169 ② 900218



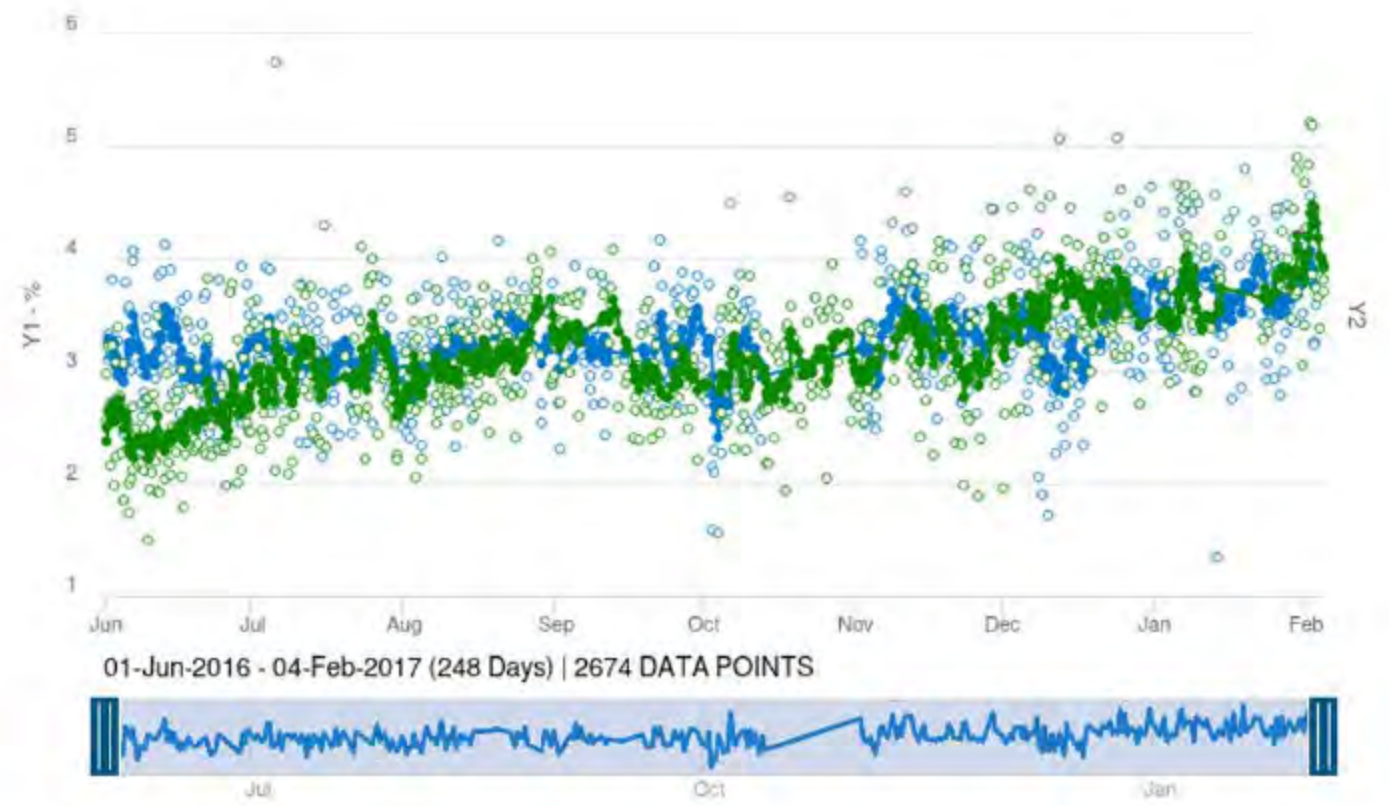
Y1 - Delta Core Speed in Cruise | CRUISE | Raw  
 ① 900169 ② 900218  
 Y1 - Delta Core Speed in Cruise | CRUISE | Smoothed  
 ① 900169 ② 900218

Plot 7



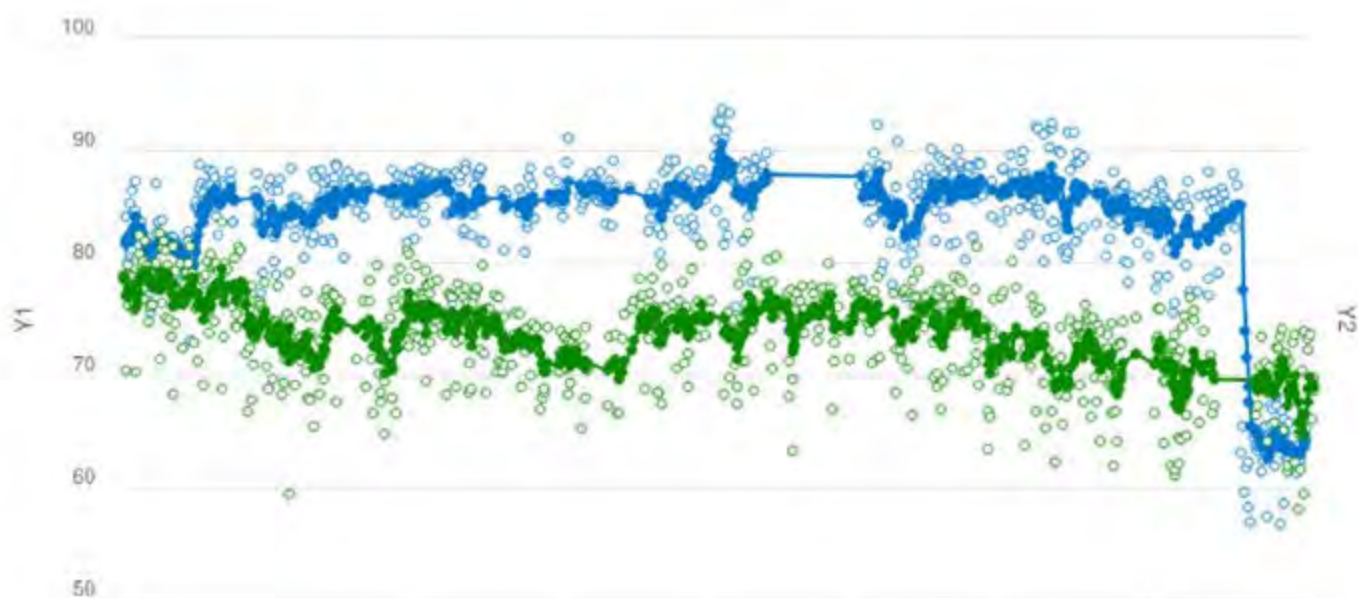
Y1 - EGT Hot Day Margin | TAKEOFF | Raw  
 ① 900169 ② 900218  
 Y1 - EGT Hot Day Margin | TAKEOFF | Smoothed  
 ① 900169 ② 900218

Plot 8

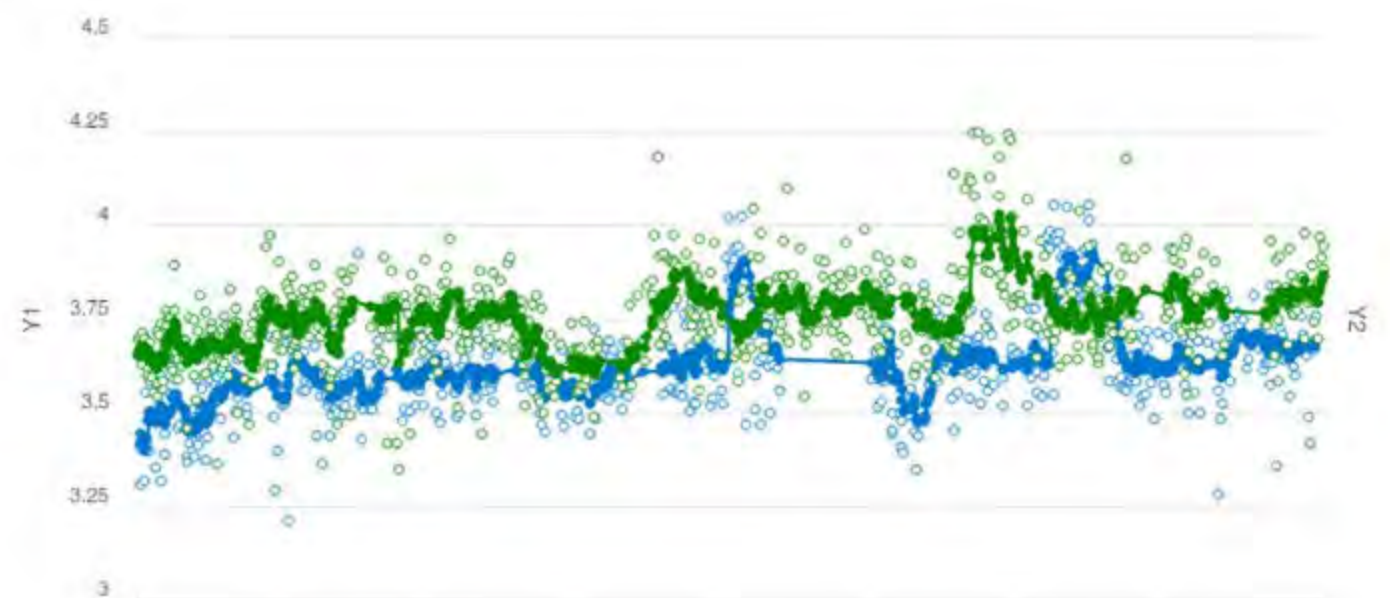


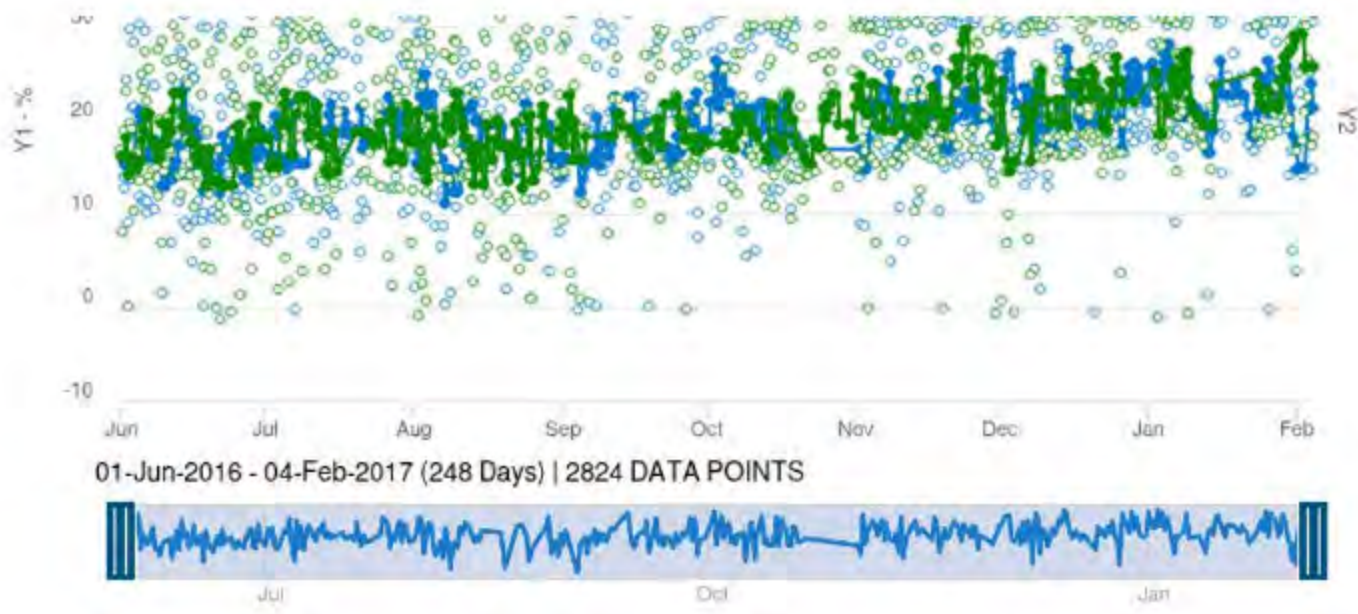
Y1 - Delta Fuel Flow | CRUISE | Raw  
 ① 900169 ② 900218  
 Y1 - Delta Fuel Flow | CRUISE | Smoothed  
 ① 900169 ② 900218

Plot 9

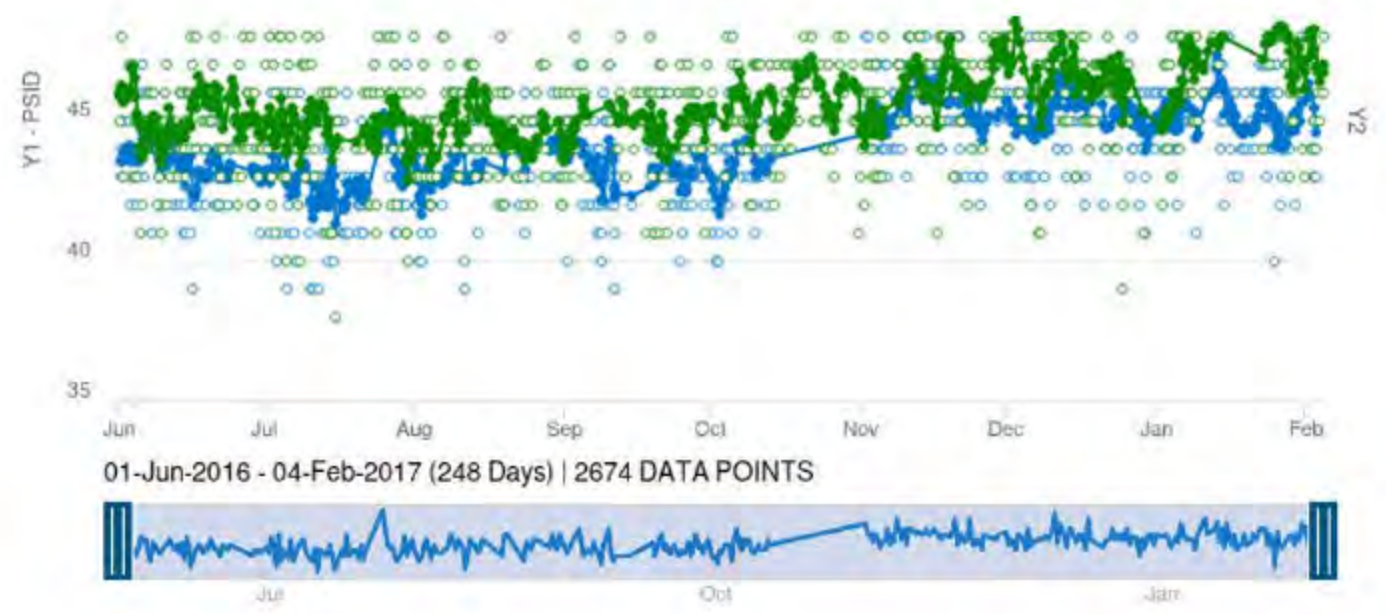


Plot 10



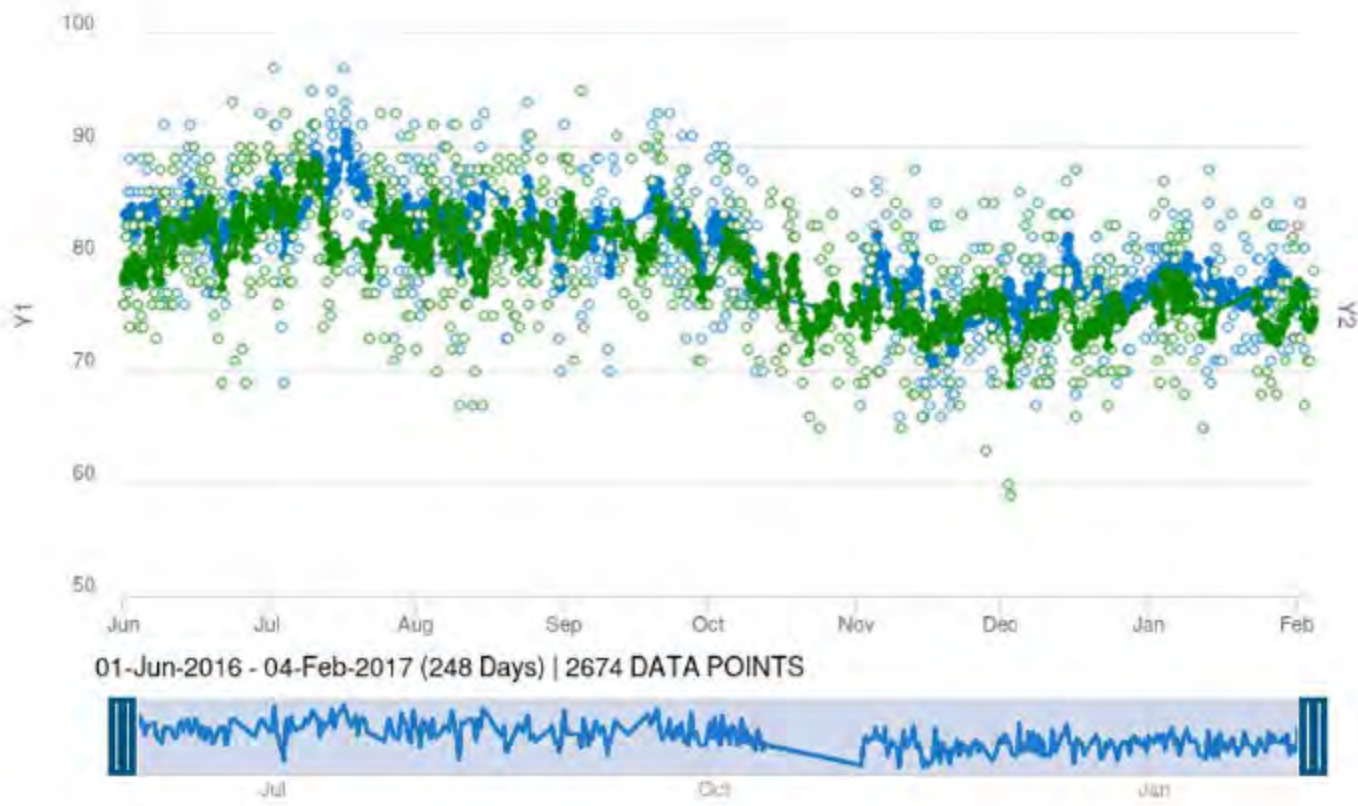


Y1 - Thrust Derate | TAKEOFF | Raw  
 ① 900169 ② 900218  
 Y1 - Thrust Derate | TAKEOFF | Smoothed  
 ① 900169 ② 900218



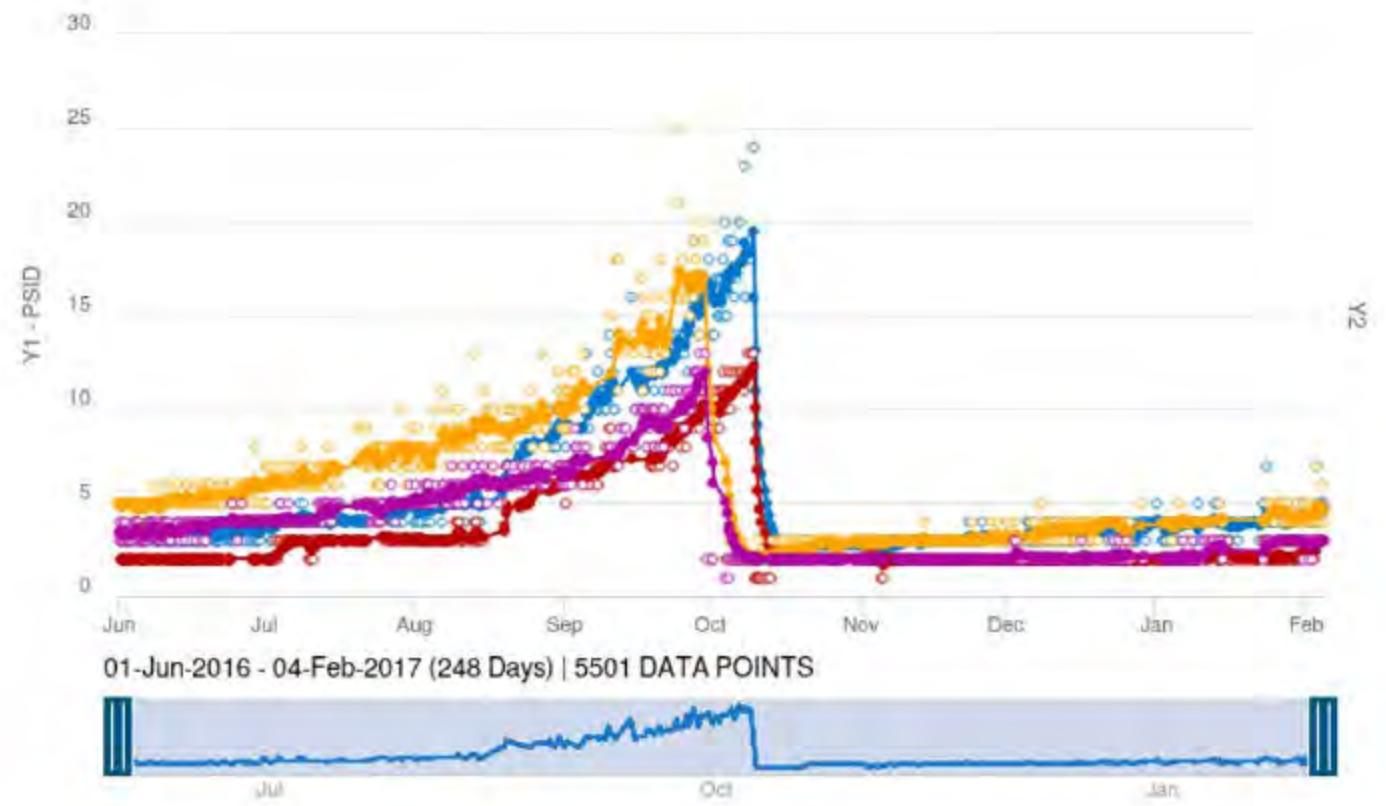
Y1 - Oil Pressure | CRUISE | Raw  
 ① 900169 ② 900218  
 Y1 - Oil Pressure | CRUISE | Smoothed  
 ① 900169 ② 900218

Plot 13

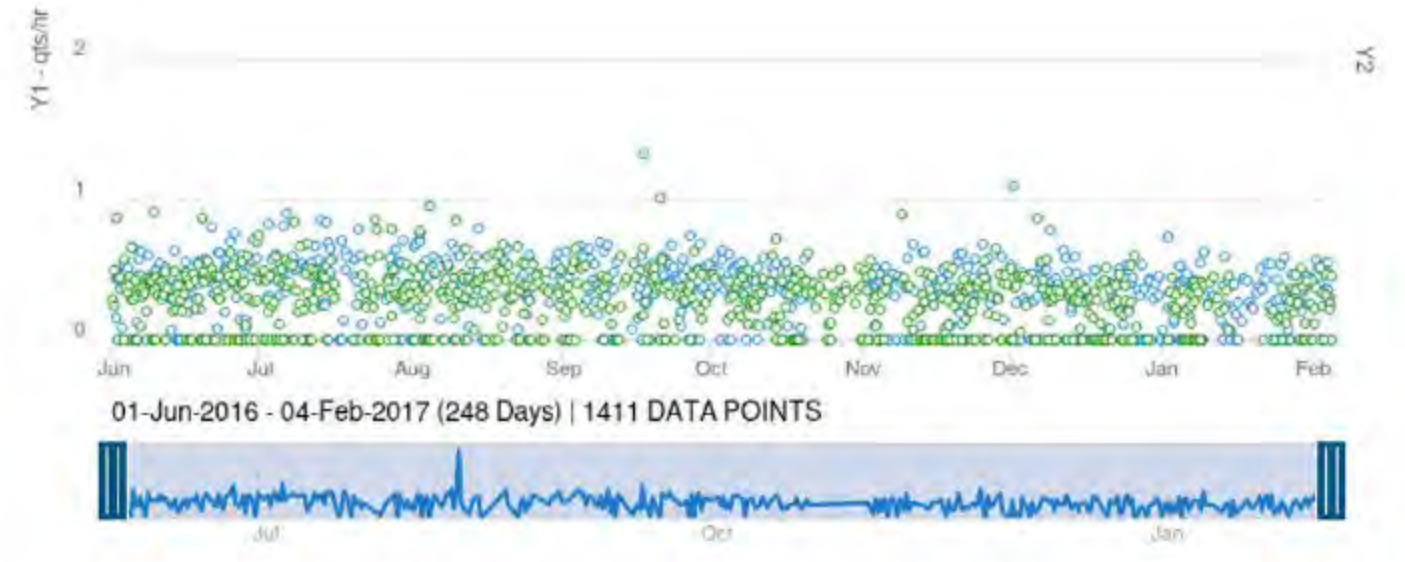
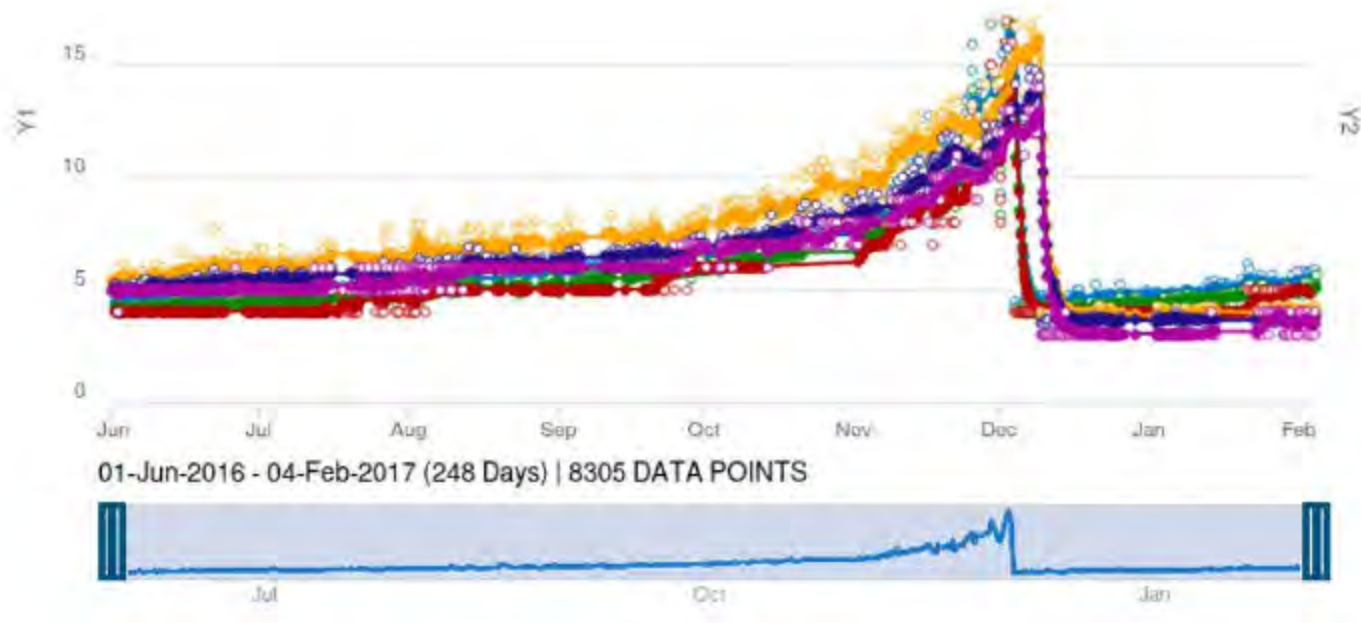


Y1 - Oil Temperature | CRUISE | Raw  
 ① 900169 ② 900218  
 Y1 - Oil Temperature | CRUISE | Smoothed  
 ① 900169 ② 900218

Plot 14



Y1 - Oil Filter Delta Pressure | TAKEOFF | Raw  
 ① 900169 ② 900218  
 Y1 - Oil Filter Delta Pressure | TAKEOFF | Smoothed  
 ① 900169 ② 900218  
 Y1 - Oil Filter Delta Pressure | CLIMB | Raw  
 ! ① 900169 ! ② 900218  
 Y1 - Oil Filter Delta Pressure | CLIMB | Smoothed  
 ! ① 900169 ! ② 900218  
 Y1 - Oil Filter Delta Pressure | CRUISE | Raw  
 ① 900169 ② 900218  
 Y1 - Oil Filter Delta Pressure | CRUISE | Smoothed  
 ① 900169 ② 900218



- Y1 - Fuel Filter Delta Pressure | TAKEOFF | Raw
- ① 900169    ② 900218
- Y1 - Fuel Filter Delta Pressure | TAKEOFF | Smoothed
- ① 900169    ② 900218
- Y1 - Fuel Filter Delta Pressure | CLIMB | Raw
- ① 900169    ② 900218
- Y1 - Fuel Filter Delta Pressure | CLIMB | Smoothed
- ① 900169    ② 900218
- Y1 - Fuel Filter Delta Pressure | CRUISE | Raw
- ① 900169    ② 900218
- Y1 - Fuel Filter Delta Pressure | CRUISE | Smoothed
- ① 900169    ② 900218

- Y1 - Eng Oil Consumption at Taxi-in | POSTFLIGHT | Raw
- ① 900169    ② 900218