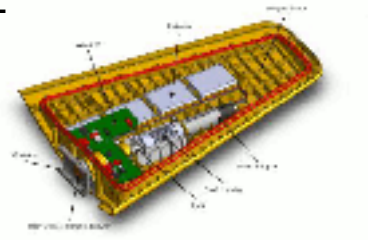


Wings Condition monitoring

Wing QC checks

- Current
- Voltage
- Duty cycle
- Link quality
- Humidity
- Temperature

Wing plots

- Voltage
- Current
- Duty cycle
- Link quality
- Humidity
- Temperature

Wing motor statistics

- Wing response signature(s)
- Wing overall statistics
- Top 10 records versus test(s)
- Pool Performances versus test(s)
- Prognostic plot

Wing flag statistics

- Communication failure flag
- Operational condition flag
- Charge algorithme

IFS status

- IFS statistics
- Previous fault report(s)

Wing prognostics

Current QC

Maximum current: 52.0 mA — Wing has been charging

Minimum current: -36.0 mA

Average current: 4.37 mA

Current variation: 88.0 mA

Charging capacity: 60.51 mA/H — Wing charging.

Voltage QC

Maximum voltage: 15.9 v

Minimum voltage: 15.9 v

Average voltage: 15.9 v — Need charging, operator to decide if suitable for production.

Voltage variation: 0.0 v

Duty cycle QC

Maximum duty cycle: 92 %

Minimum duty cycle: 0 %

Average duty cycle: 45.15 %

Link quality QC

Maximum link quality: 100 %

Minimum link quality: 100 %

Average link quality: 100.0 %

link quality variation: 0.0

Humidity QC

Maximum humidity: 25.0 %

Minimum humidity: 19.0 %

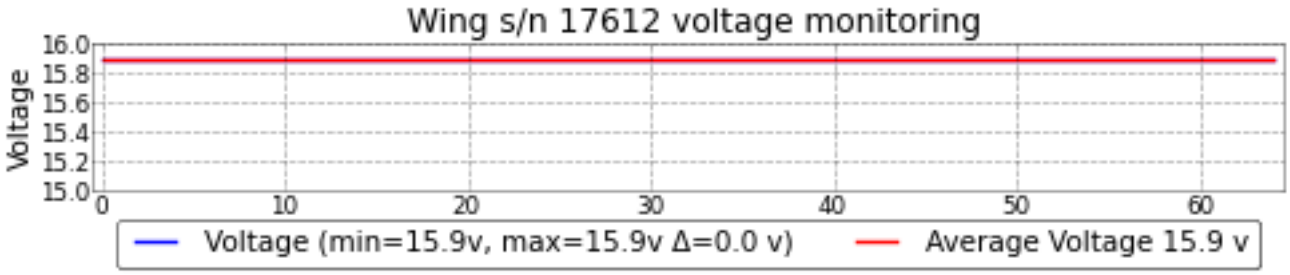
Average humidity: 20.88 %

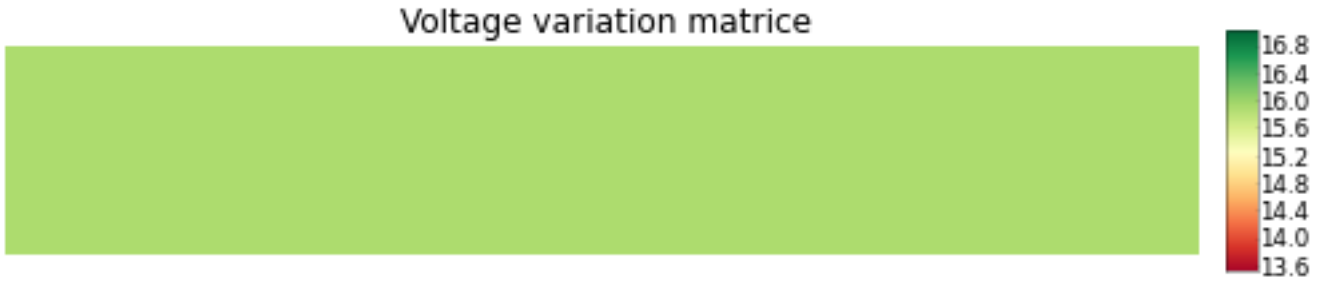
Temperature QC

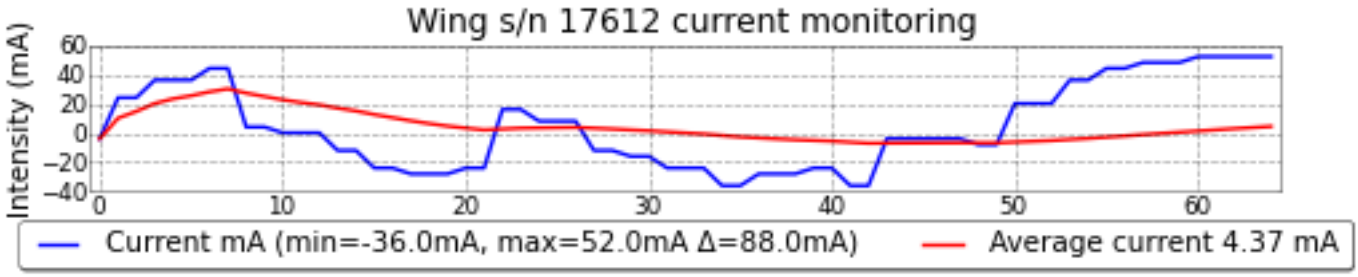
Maximum Temperature: 28.0

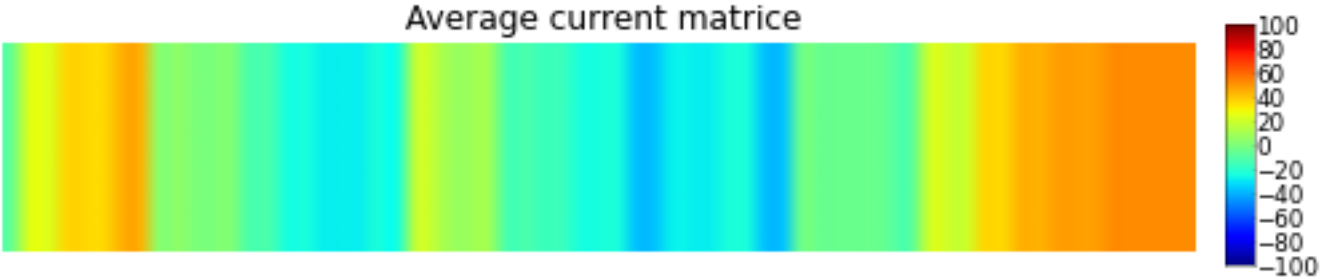
Minimum Temperature: 27.1

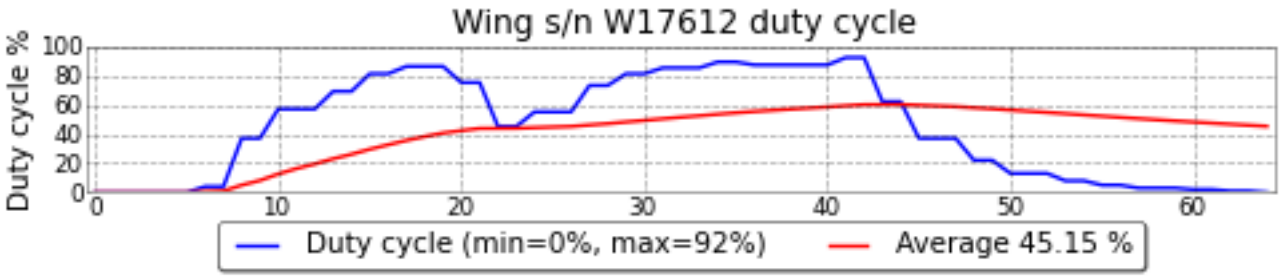
Average Temperature: 27.64

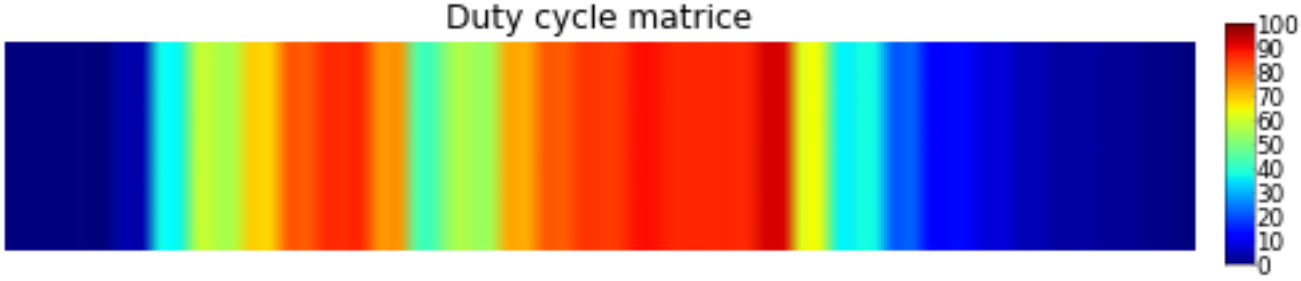

Wing s/n 17612 voltage monitoring
Voltage
16.0
15.8
15.6
15.4
15.2
15.0
0
10
20
30
40
50
60
Voltage (min=15.9v, max=15.9v Δ=0.0 v)
Average Voltage 15.9 v

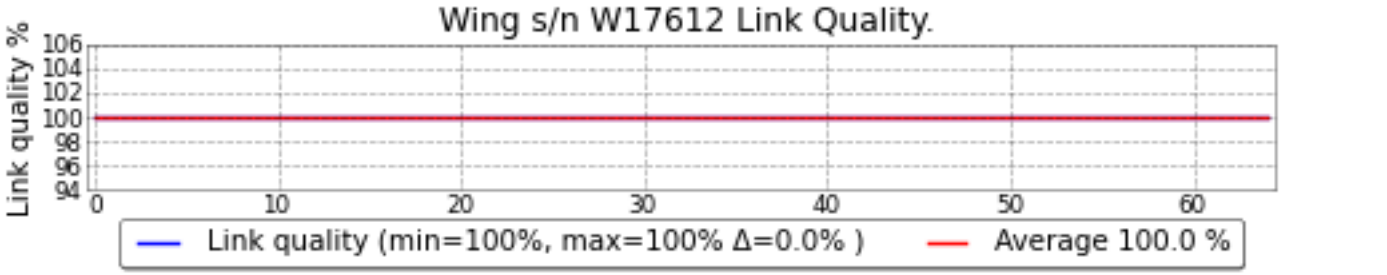

Voltage variation matrice
16.8
16.4
16.0
15.6
15.2
14.8
14.4
14.0
13.6


Wing s/n 17612 current monitoring
Intensity (mA)
60
40
20
0
−20
−40
0
10
20
30
40
50
60
Current mA (min=-36.0mA, max=52.0mA Δ=88.0mA)
Average current 4.37 mA

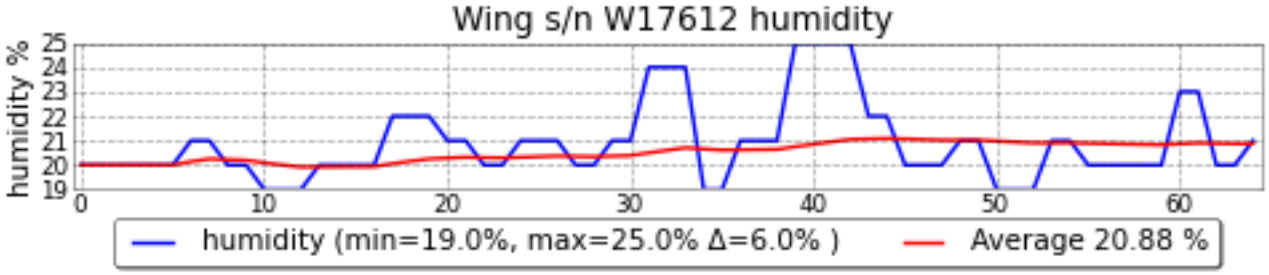

Average current matrice
100
80
60
40
20
0
−20
−40
−60
−80
−100

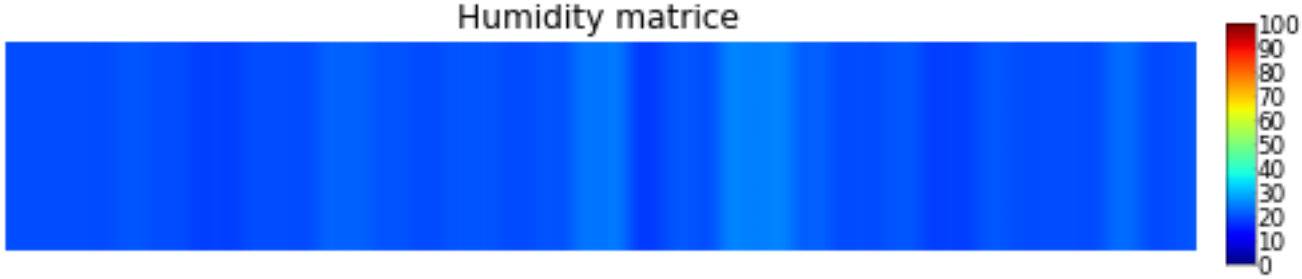

Wing s/n W17612 duty cycle
Duty cycle %
100
80
60
40
20
0
0
10
20
30
40
50
60
Duty cycle (min=0%, max=92%)
Average 45.15 %

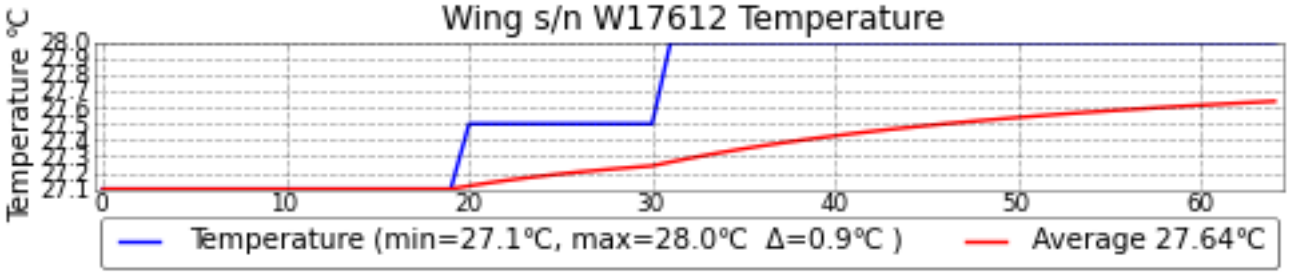

Duty cycle matrice
100
90
80
70
60
50
40
30
20
10
0

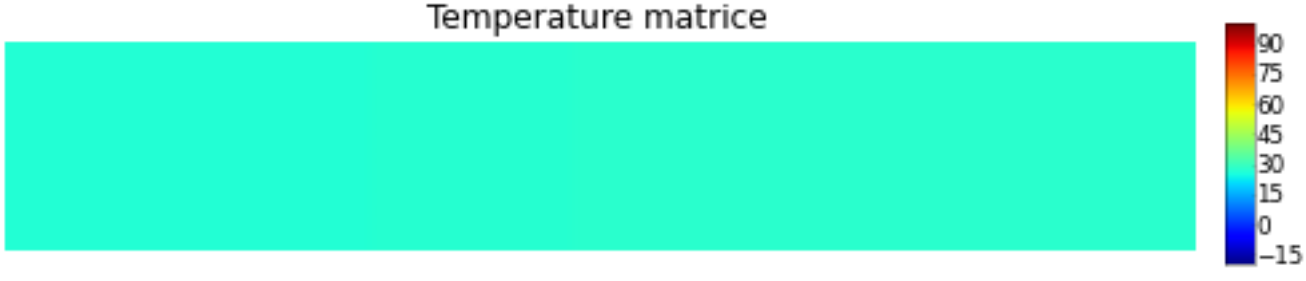

Wing s/n W17612 Link Quality.
Link quality %
Link quality (min=100%, max=100% Δ=0.0%)
Average 100.0 %

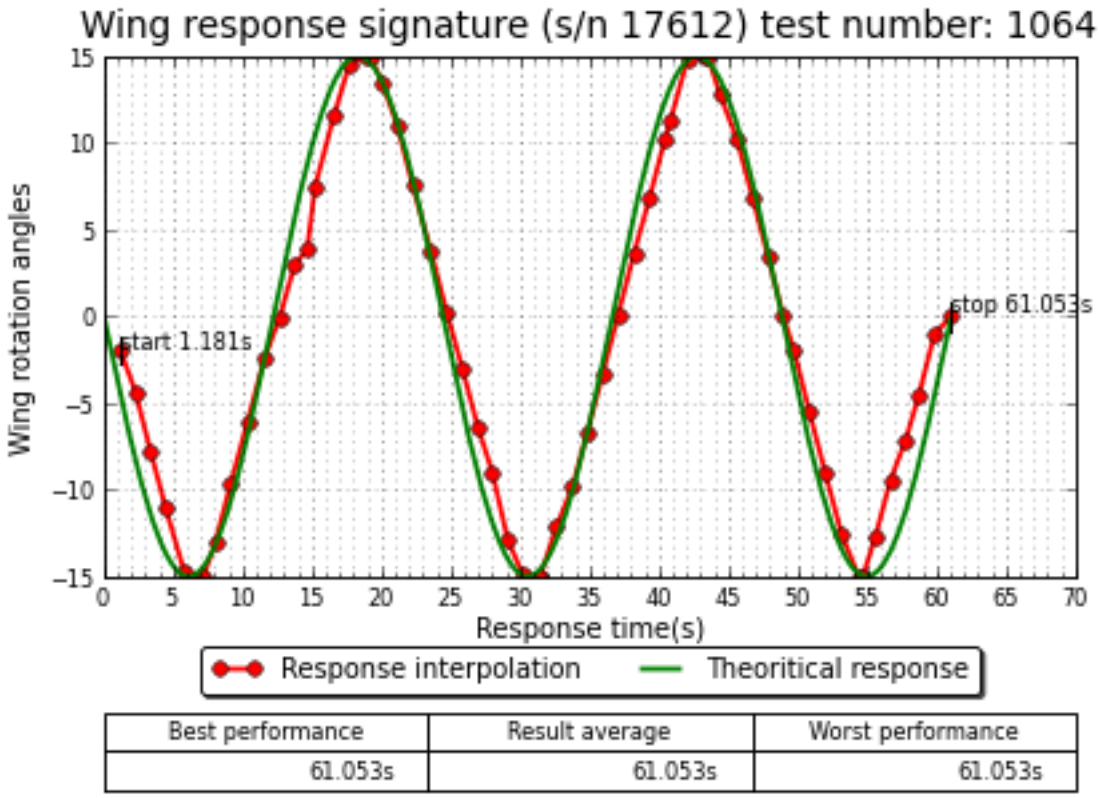

Link quality matrice


Wing s/n W17612 humidity
humidity %
humidity (min=19.0%, max=25.0% Δ=6.0%)
Average 20.88 %


Humidity matrice


Wing s/n W17612 Temperature
Temperature °C
Temperature (min=27.1°C, max=28.0°C Δ=0.9°C)
Average 27.64°C


Temperature matrice

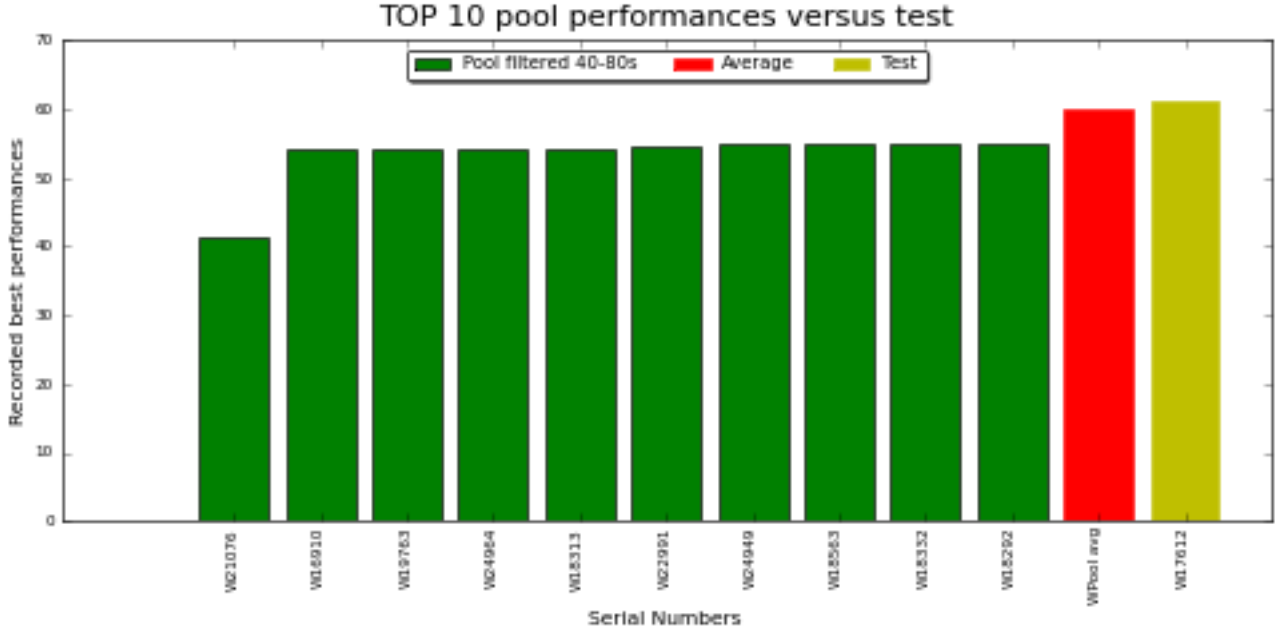


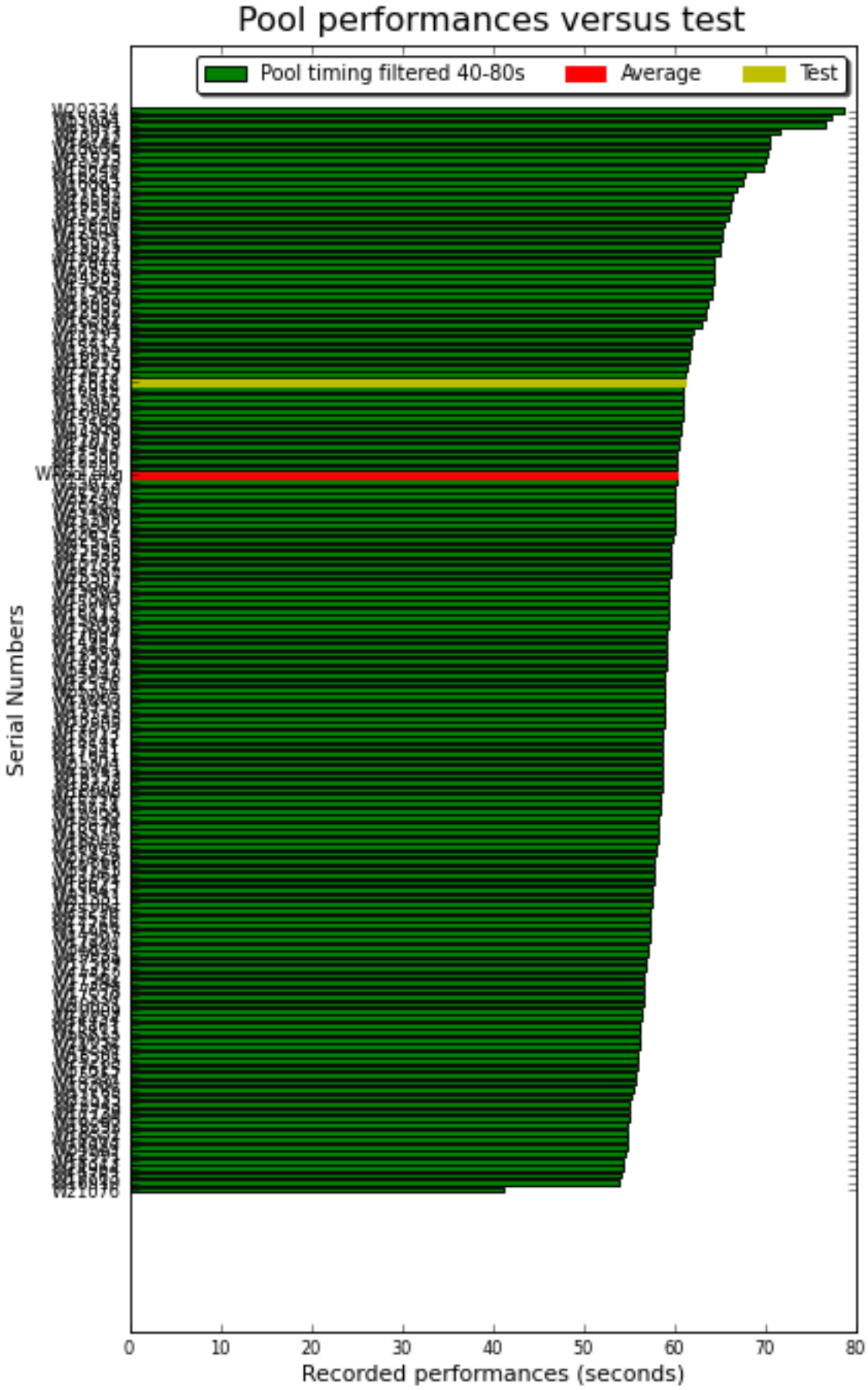
Best performance	Result average	Worst performance
61.053s	61.053s	61.053s

Pool average speed : 60.135 seconds

Speed (this test) : 61.053 seconds Warning! motor speed is lower than average

Pool classement : 113/150




Pool performances versus test
Pool timing filtered 40-80s
Average
Test
Serial Numbers
0
10
20
30
40
50
60
70
80
Recorded performances (seconds)

Communication status : Comm OK

Operational status : Op OK

Power deactivated	: 7.81%
Power activated	: 92.19%
Charge disabled	: 7.81%
Charge enabled	: 92.19%
Power NOT received	: 7.81%
Power received	: 92.19%

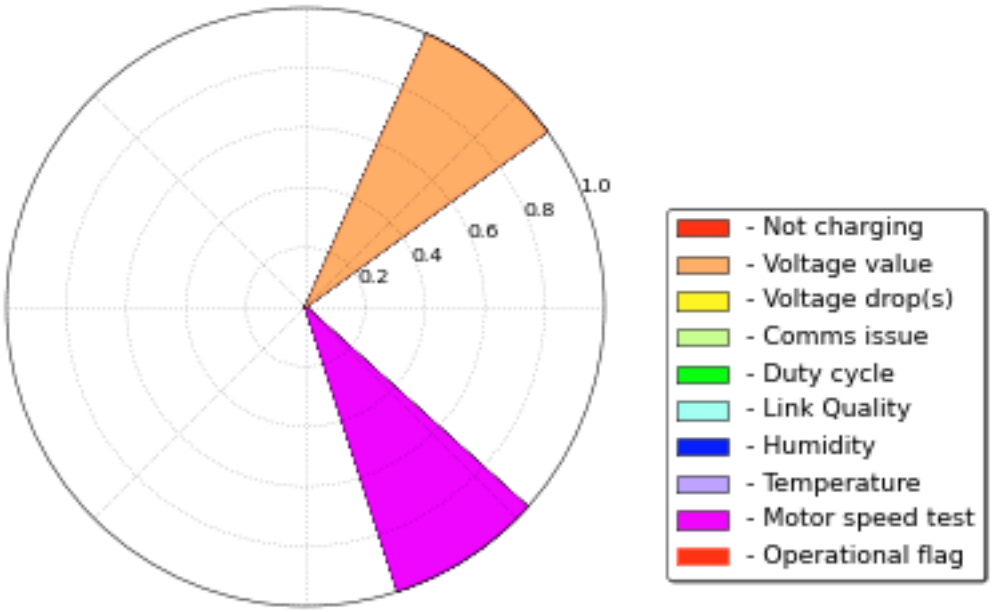
Wing has received power : Maximum current should be >0

Element : - Not charging	Severity: 0	Pass
Element : - Voltage value	Severity: 1	Notice
Element : - Voltage drop(s)	Severity: 0	Pass
Element : - Comms issue	Severity: 0	Pass
Element : - Duty cycle	Severity: 0	Pass
Element : - Link Quality	Severity: 0	Pass
Element : - Humidity	Severity: 0	Pass
Element : - Temperature	Severity: 0	Pass
Element : - Motor speed test	Severity: 1	Notice
Element : - Operational flag	Severity: 0	Pass

Recommendation: A test should always be followed by a wing cover inspection and a manual wing rotational test to detect loose mechanism.

Make sure no radio is in the ebird body vicinity during the testing.

Pass


0.2
0.4
0.6
0.8
1.0
- Not charging
- Voltage value
- Voltage drop(s)
- Comms issue
- Duty cycle
- Link Quality
- Humidity
- Temperature
- Motor speed test
- Operational flag

Item found in IFS

Description	eBird? SmartWing
Vessel	SOS
Part number	1021571
Serial number	W17612
Alternate ID	5378944
Operational condition	Operational
Operational status	Not Applicable
Latest transaction	Moved to location ATS-3-3298-EBWRK at site ATS
Date created	2014-01-16 10:27:13
Date changed	2014-04-16 13:36:52

No active work order found

No historical work order found

Found : 0 transport order(s)

The QR code contains the following informations

S/N:W17612
PART_NO: 1021571
ALTERNATE_ID: 5378944
Status: Pass
- Voltage value : Severity=1
- Motor speed test : Severity=1