



CEMS SERVICE RECORD

Date	Customer	Site	System	Engineer	Service Type		
16/04/2026	Thalia	Allerton	Line 1 Duty		Minor 2		
Multigas type	Serial No	FID Type	Serial No	Oxygen Type	Serial No	Particulate Type 1	Serial No
MIRFT	153621	GR52M	888	MIR ZR O2	N/A	QAL181	52995
Extract Probe	Serial No	Flow Type	Serial No	Pressure Type	Serial No		
HoFi	2362	SF400	98851	E+H Cerabar M	KC038901128		

MIRFT Checks

Review sampling system from probe to analyser. Note any issues.
Check temperature set points & current temperature reading at probe & heated line.
Check Calcmeter for residual alarms. Note any issues.
Check Calcmeter for any other alarms. Note any issues.
Check background graph shape. Take screenshot for reference. Note any issues.
Check IFG Height on N2 - ideally around 5V (+/- 0.3V)
Check IFG Centre - Ideally 2400 (+/- 50)
Check Sample Cell Pressure - Ideally between 995-900mbar
Check Cell Temperature - Should be 180C & stable
Check interferometer Temperature - less than 45C
Check Detector Temperature - -37C and stable
Check all residual alarms set correctly (0.01 warning, 0.02 alarm)
Record date of last H2O calibration

GR52M Checks

Check heated line temperature - 180C
Check Sample flow rate - 200mbar (+/- 20mbar)
Check Fuel Gas Pressure - 700mbar (+/- 20mbar)
Check Air Pressure - 400mbar (+/- 20mbar)
Check Air Catalyst Temp - 400C (+/- 5C)
Check FID temp 191C
Check PCB temp - less than 45C
Check Range is set to 2 (0-100mg/m3)

MIR ZR O2 Checks

Check O2 reading at probe matches on DAHS (Raw Data)

QAL181 Checks

Check reading on controller matches on DAHS (Raw Data)

General

Check previous QAL3 results - discuss any regular issues

Notes

Analyser shelter very dusty. Vacuumed shelter to reduce premature filter fouling & overheating issues.

Result

Good	
180 = 180 - 200 = 200	
OK - plant offline	
None	
58036 - ok	
5	
2382	
1150 - plant offline	
182	
51.4 - replaced cleaned - now 43.02	
-37	
OK - plant offline	
10/04/2025	due next visit
181	
206	
701	
401	
386	
191	

49	
0-100	
22.85 - plant offline	
0.8	
ok	



CEMS SERVICE RECORD

Date	Customer	Site	System	Engineer	Service Type		
16/04/2026	Thalia	Allerton	Line 2 Duty		Minor 2		
Multigas type	Serial No	FID Type	Serial No	Oxygen Type	Serial No	Particulate Type	Serial No
MIRFT	153264	GR52M	880	MIR ZR O2	N/A	QAL181	52994
Extract Probe	Serial No	Flow Type	Serial No	Pressure Type	Serial No		
HoFi	2364	SF400	52715	E+H Cerabar M	KC038801128		

MIRFT Checks

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Check interferometer Temperature - less than 45C
Check Detector Temperature - -37C and stable
Check all residual alarms set correctly (0.01 warning, 0.02 alarm)
Record date of last H2O calibration

GR52M Checks

Check heated line temperature - 180C
Check Sample flow rate - 200mbar (+/- 20mbar)
Check Fuel Gas Pressure - 700mbar (+/- 20mbar)
Check Air Pressure - 400mbar (+/- 20mbar)
Check Air Catalyst Temp - 400C (+/- 5C)
Check FID temp 191C
Check PCB temp - less than 45C
Check Range is set to 2 (0-100mg/m3)

MIR ZR O2 Checks

Check O2 reading at probe matches on DAHS (Raw Data)

QAL181 Checks

Check reading on controller matches on DAHS (Raw Data)

General

Check previous QAL3 results - discuss any regular issues

Result

Good
180=180 - 200 = 200
None - plant offline
None
46,508 - Low amplitude, Good Shape
3.91 - low amplitude
2267 - low
1013 - pressure tube squashed - now 1050
180
46.29 - filters cleaned - now 40.4
37
OK - plant offline
10/04/2025 due next visit
181
199
701
401
399
186
36
Yes
23.62 - plant offline
plant off - BH2 being cleaned
1.77
OK

Notes

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CEMS SERVICE RECORD

Date	Customer	Site	System	Engineer	Service Type		
16/04/2026	Thalia	Allerton	Dual Standby		Minor 2		
Multigas type	Serial No	FID Type	Serial No	Oxygen Type	Serial No	Particulate Type 1	Serial No
MIRFT	153262	GR52M	887	MIRZR O2	N/A	QAL181	52992
Extract Probe	Serial No	Flow Type	Serial No	Pressure Type	Serial No	Particulate Type 2	Serial No
HoFi	2366/2365	SF400	52996/52997	E+H Cerabar M	KC038901128/ KC038A01128	QAL181	52993

MIRFT Checks

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Check Calcmeter for any other alarms. Note any issues.
Check background graph shape. Take screenshot for reference. Note any issues.
Check IFG Height on N2 - ideally around 5V (+/- 0.3V)
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GR52M Checks

Check heated line temperature - 180C
Check Sample flow rate - 200mbar (+/- 20mbar)
Check Fuel Gas Pressure - 700mbar (+/- 20mbar)
Check Air Pressure - 400mbar (+/- 20mbar)
Check Air Catalyst Temp - 400C (+/- 5C)
Check FID temp 191C
Check PCB temp - less than 45C
Check Range is set to 2 (0-100mg/m3)

MIRZR O2 Checks

Check O2 reading at probe matches on DAHS (Raw Data)

plant offline

QAL181 Checks

Check reading on controller matches on DAHS (Raw Data)

plant off - BH2
being cleaned

General

Check previous QAL3 results - discuss any regular issues

Result

Good	
180 = 180 & 200 = 200	
None - plant offline	
None	
63920 - good shape	
5.6	
2402	
1056 - plant offline	
180	
50.82 - cleaned filters - now 41.39	
-36.94	
plant offline - ok on air	
11/04/2025	Due next visit
180	
225	
692	
388	
398	
191	
45	
0-100	
20.70%	
0.42, 2.42	
OK	

Notes

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