

# **Appendix A3**

## **AVGAS**

### **Results**

### A3.1

#### Aviation Gasoline (AVGAS) - Monthly Results July '08 to May '09

Participants	Jul '08	Sep '08	Nov '08	Jan '09	Mar '09	May '09
BP Refinery (QLD) Bulwer Island Eng No. 2		105.4		104.0	§ 99.8	101.0
BP Refinery (WA) Kwinana Eng No.2	105.3	104.4	100.6	100.8	101.0	100.8
Independent Petroleum Laboratory (NZ) Eng No.1	105.5		100.6			100.4
Intertek Testing Services (NSW) Clyde		104.4	101.1	101.0	100.8	101.3
<i>No. of Results:</i>	2	3	3	3	3	4
<i>Consensus Median:</i>	105.40	104.40	100.60	101.00	100.80	100.90
<i>Normalised IQR:</i>	0.07	0.37	0.19	1.19	0.44	0.28
<i>Robust CV:</i>	0.1%	0.4%	0.2%	1.2%	0.4%	0.3%
<i>Minimum:</i>	105.3	104.4	100.6	100.8	99.8	100.4
<i>Maximum:</i>	105.5	105.4	101.1	104.0	101.0	101.3
<i>Range:</i>	0.2	1.0	0.5	3.2	1.2	0.9

§ - denotes an outlier result (i.e. a result for which  $|z\text{-score}| > 3$ ).

#### AVGAS - Z-scores July '08 to May '09

Participants	Jul '08	Sep '08	Nov '08	Jan '09	Mar '09	May '09
BP Refinery (QLD) Bulwer Island Eng No. 2		1.39		<b>4.16</b>	-1.39	0.14
BP Refinery (WA) Kwinana Eng No.2	-0.14	0.00	0.00	-0.28	0.28	-0.14
Independent Petroleum Laboratory (NZ) Eng No.1	0.14		0.00			-0.69
Intertek Testing Services (NSW) Clyde		0.00	0.69	0.00	0.00	0.55

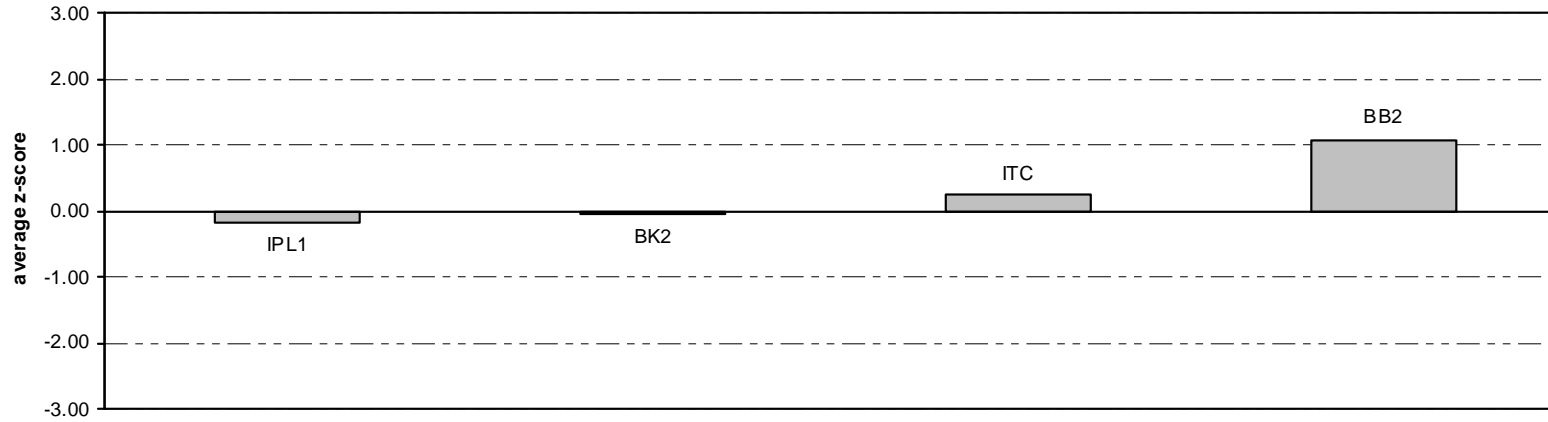
Outlier results are those for which  $|z\text{-score}| > 3$ . They are indicated in **bold**.

#### AVGAS - BTSF Deviations from Specification July '08 to May '09

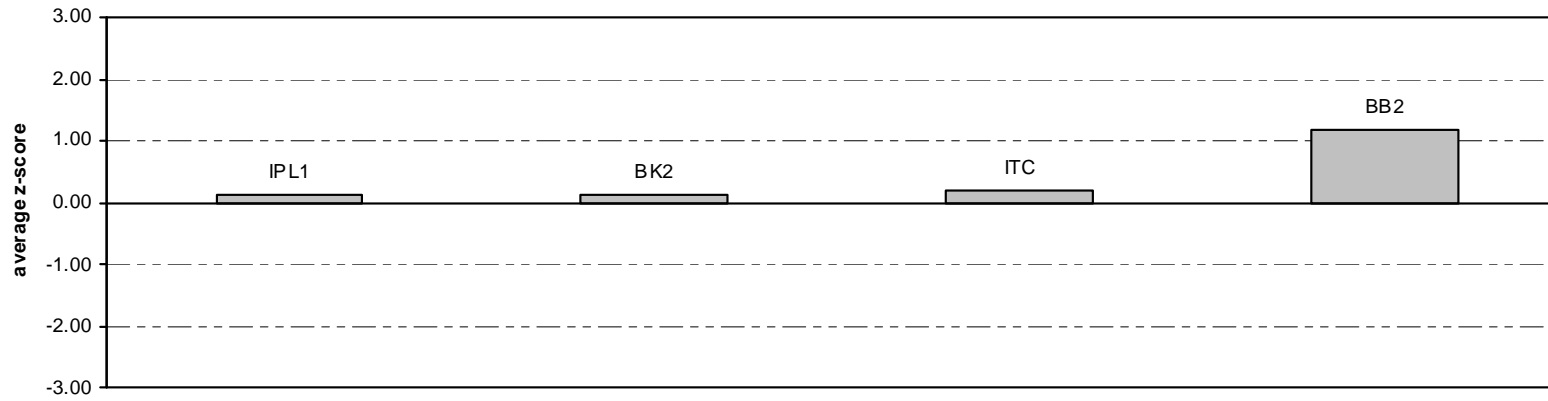
Participants	Jul '08	Sep '08	Nov '08	Jan '09	Mar '09	May '09
BP Refinery (QLD) Bulwer Island Eng No. 2		0.2		0.3	0.3	0.3
BP Refinery (WA) Kwinana Eng No.2	-0.4	-0.2	-0.5	-0.2	0.2	-0.1
Independent Petroleum Laboratory (NZ) Eng No.1	-0.1		0.0			0.0
Intertek Testing Services (NSW) Clyde		0.0	0.0	0.3	0.3	0.2

"BTSF Deviation" = "Actual/Resultant BTSF value" - "BTSF Specification"

**AVGAS - Participant Average Z-scores**

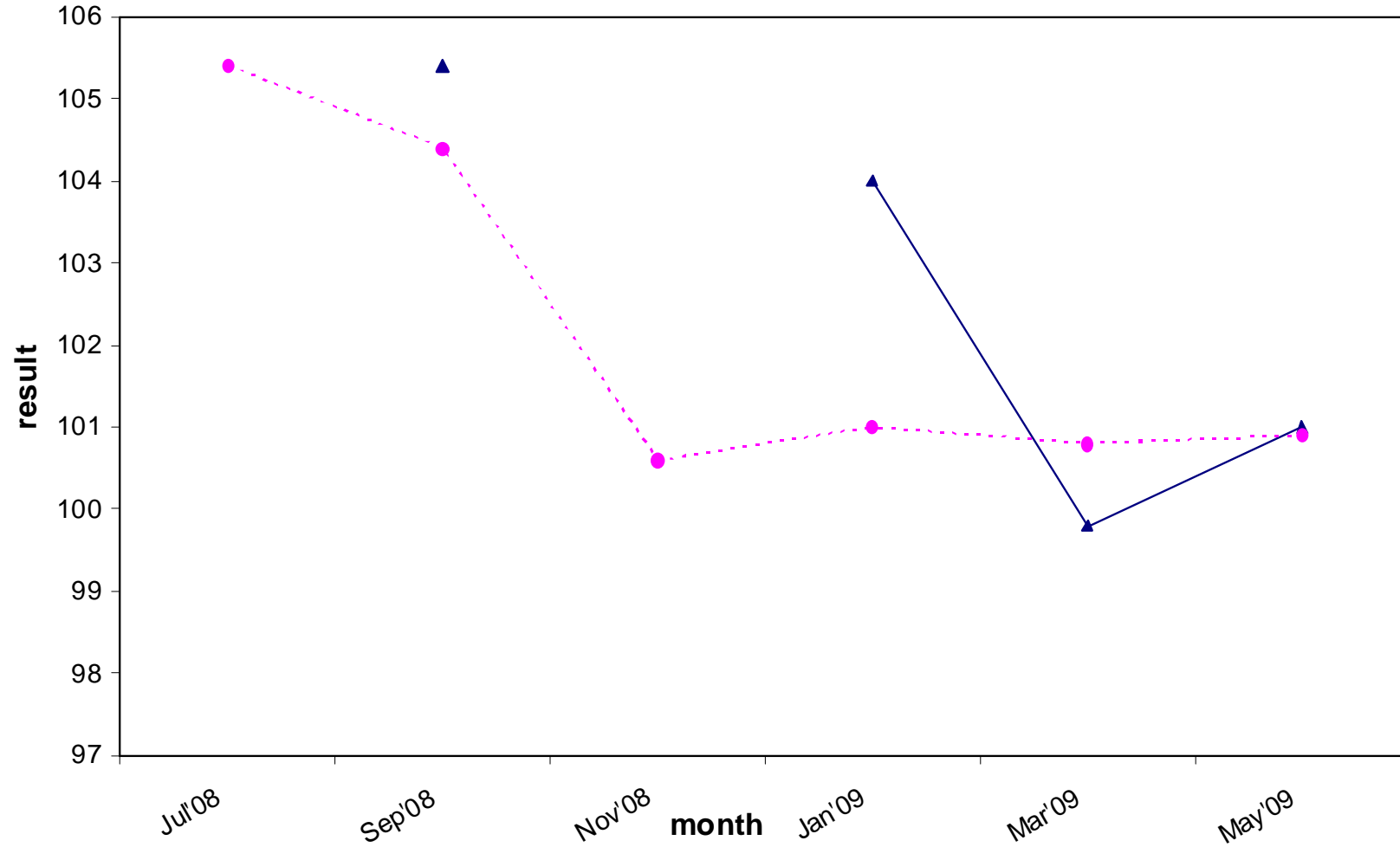


**AVGAS - Participant Average Absolute Z-scores**



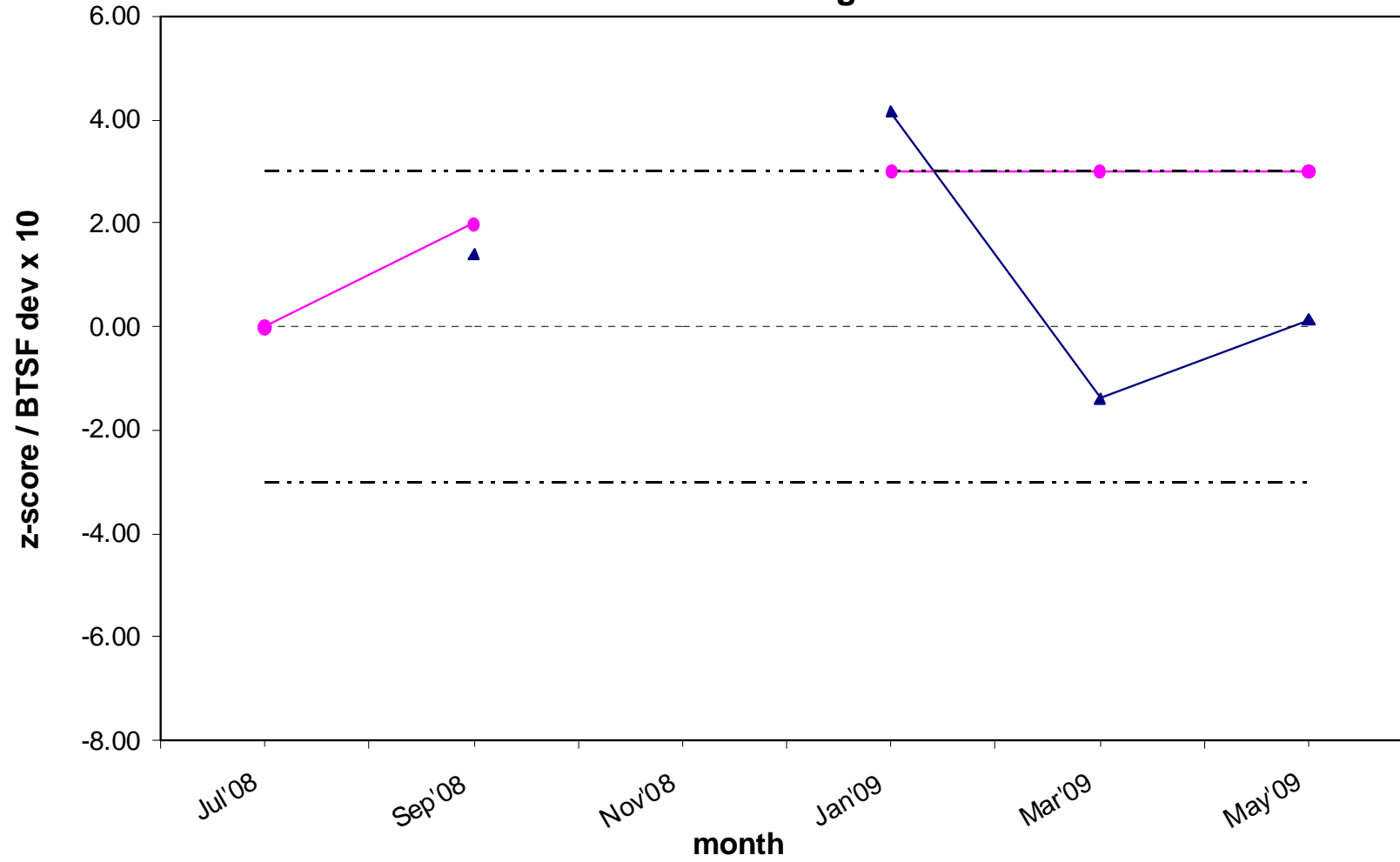
Average z-scores (top) and average absolute z-scores (bottom) shown for: BP - Bulwer Isl - No. 2 (BB2); BP - Kwirana - No. 2 (BK2); IPL - Whangarei - No. 1 (IPL1); Intertek - Clyde (ITC)

### AVGAS - BP - Bulwer Engine No. 2



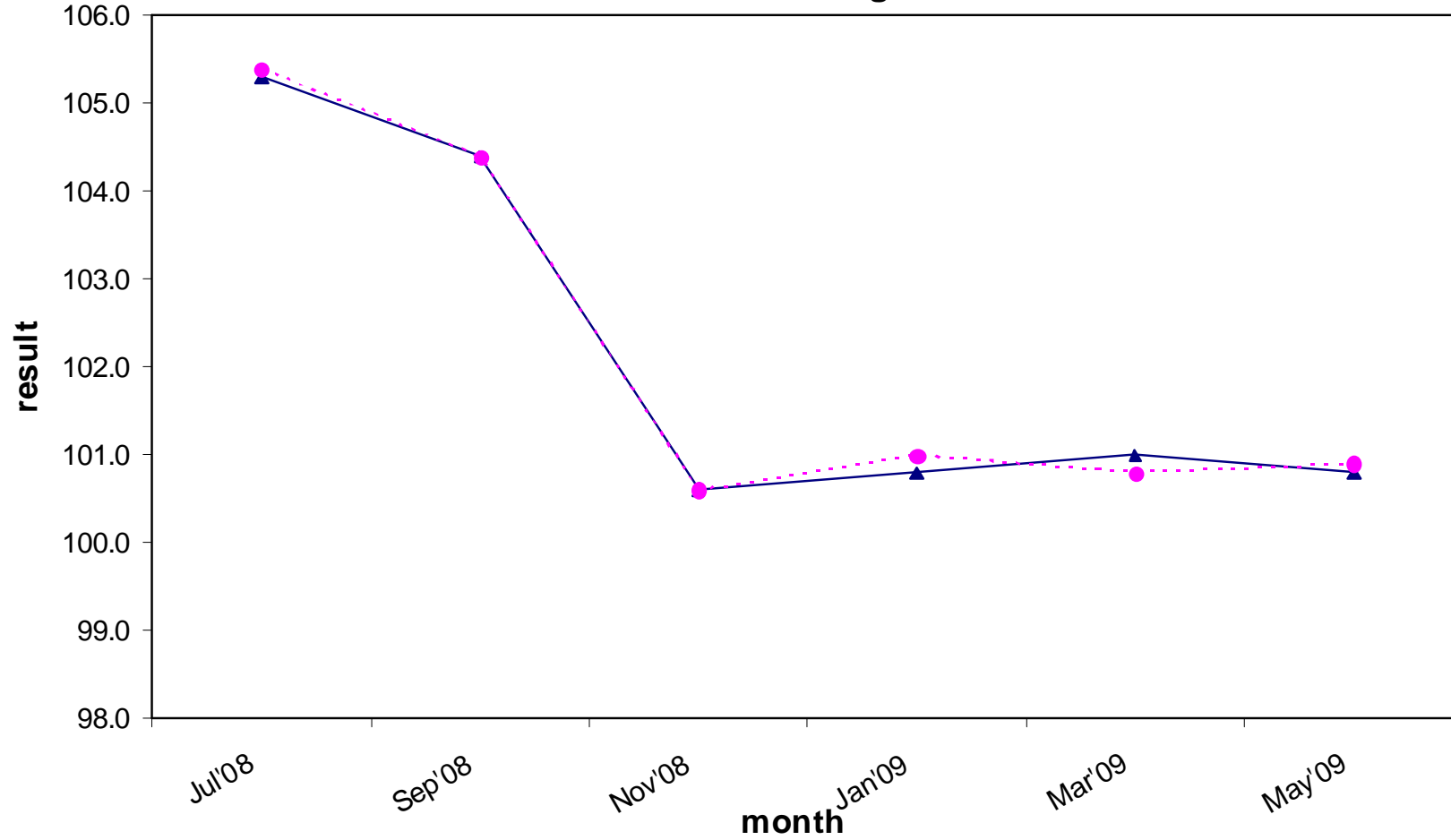
A3.3

### AVGAS - BP - Bulwer Engine No. 2



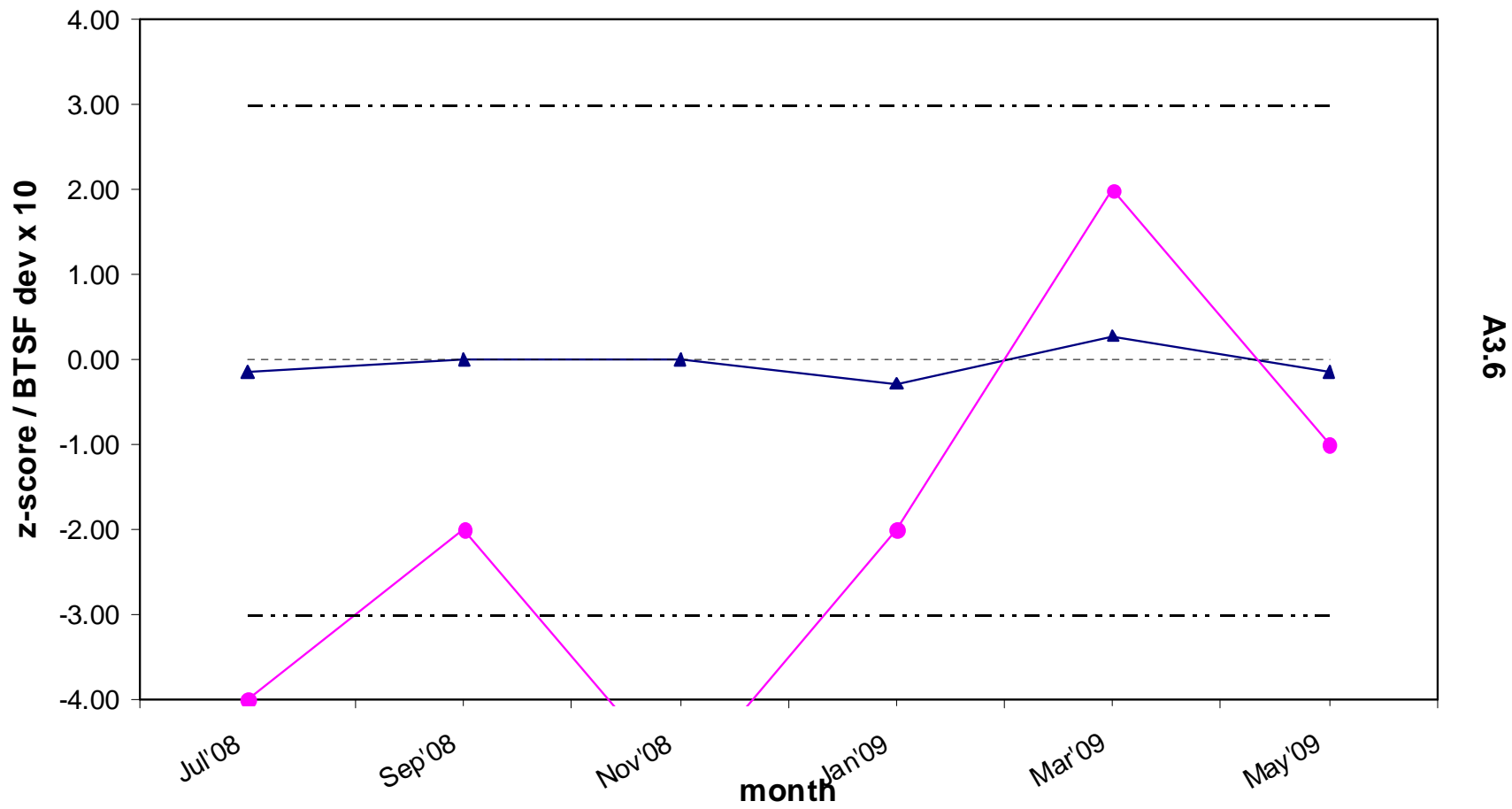
A3.4

**AVGAS - BP - Kwinana Engine No. 2**



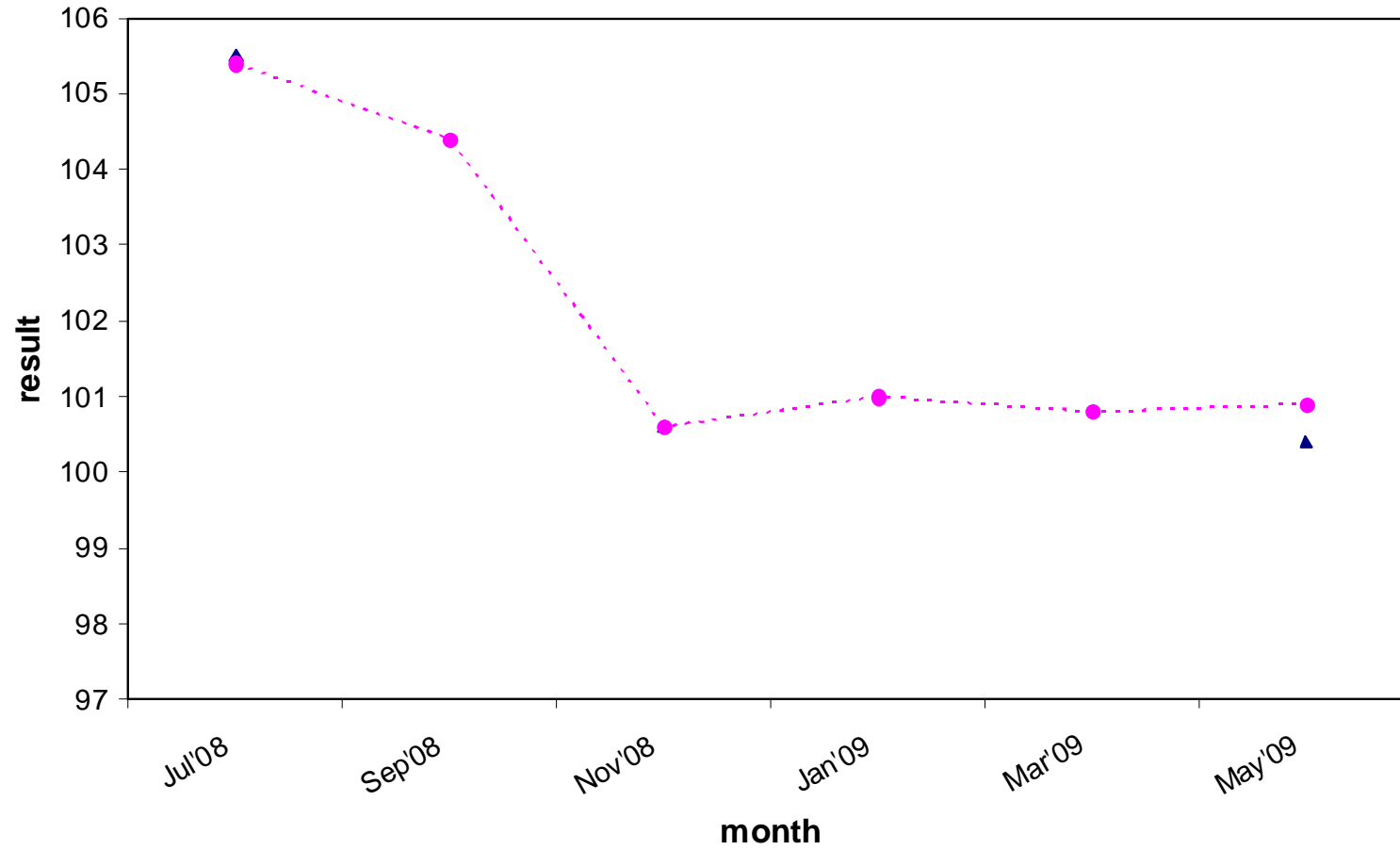
**A3.5**

### AVGAS - BP - Kwinana Engine No. 2



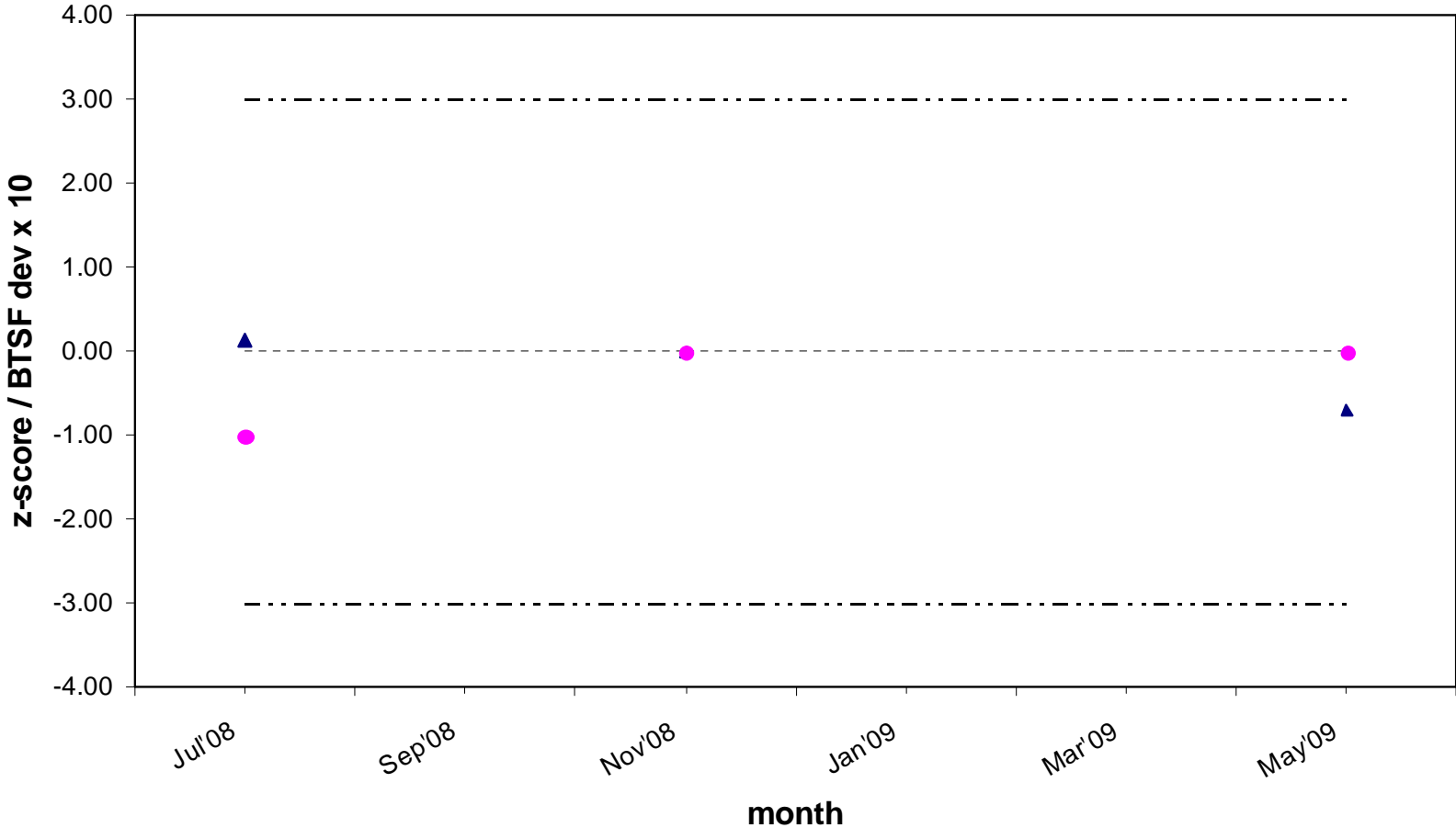
A3.6

# AVGAS - IPL - Whangarei Engine No. 1



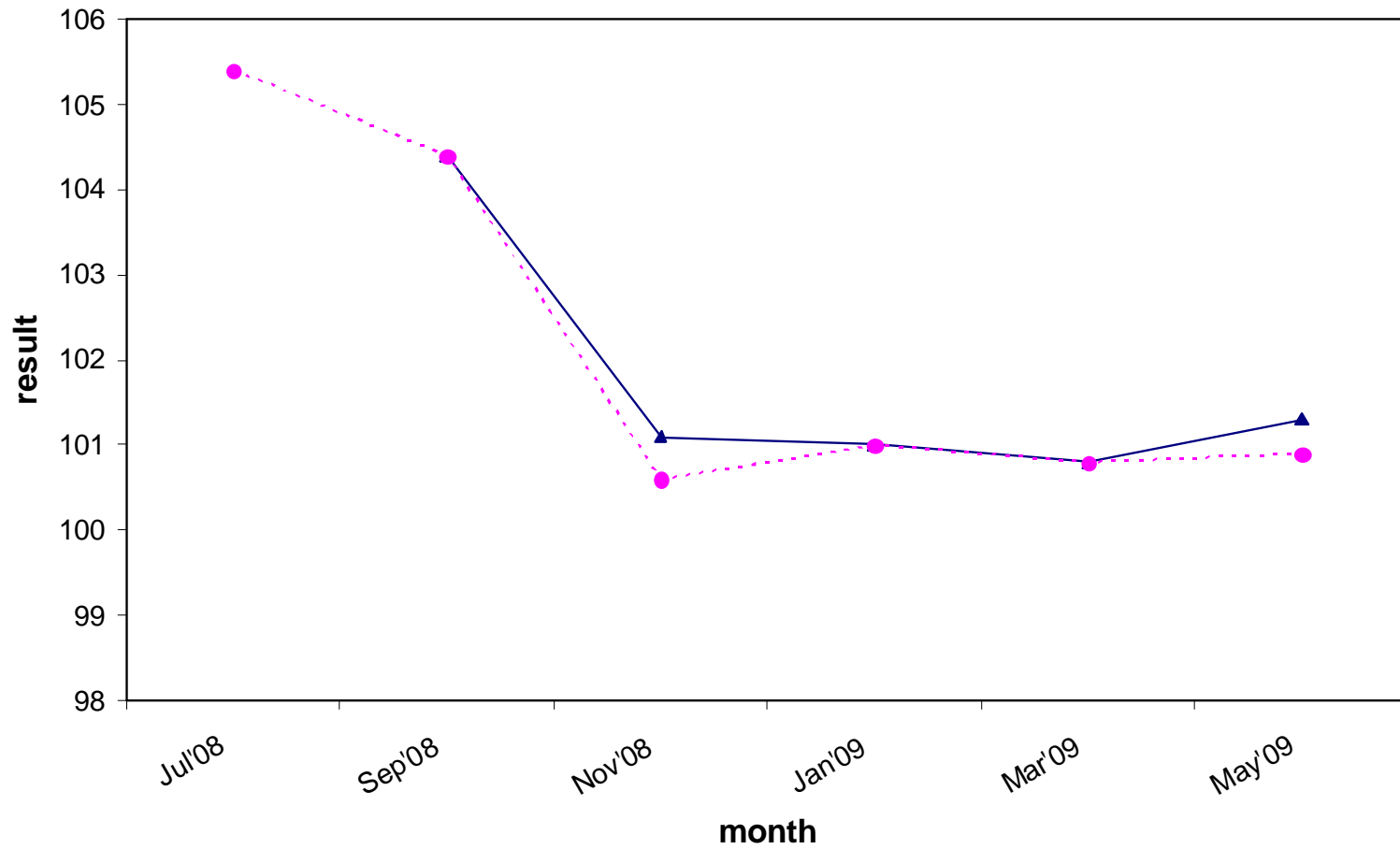
A3.7

# AVGAS - IPL - Whangarei Engine No. 1



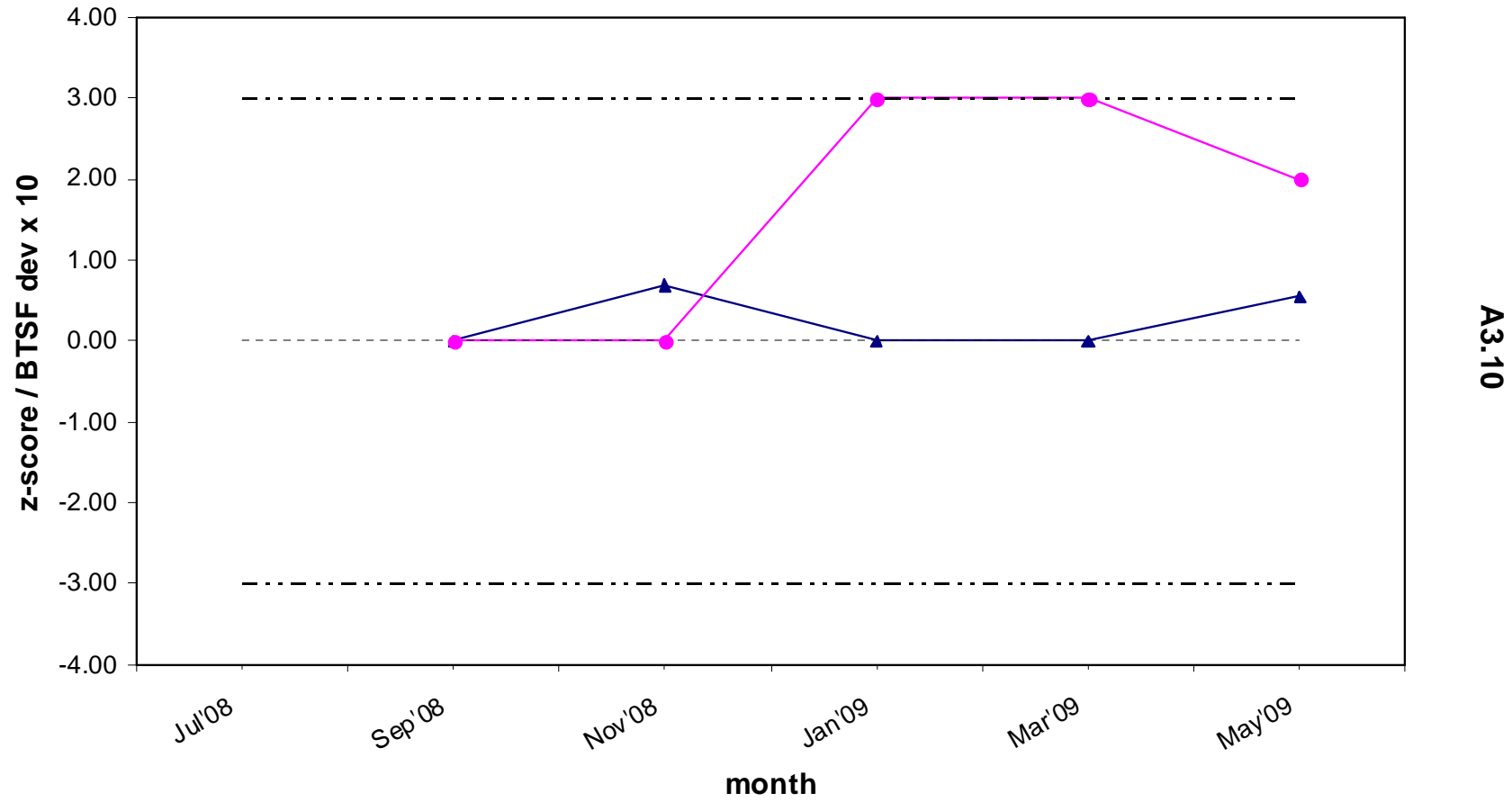
A3.8

### AVGAS - Intertek Testing Services - Clyde



A3.9

### AVGAS - Intertek Testing Services - Clyde



A3.10