



**2012 AOF Test Check Program  
Monthly Report  
Round 12  
December 2012  
01/12/2012 – 31/12/2012**

**Result Receiving Dates**

<b>Lab Code</b>	<b>Date</b>
<b>A</b>	13/12/2012
<b>B</b>	21/12/2012
<b>C</b>	7/01/2013
<b>D</b>	3/01/2013
<b>E</b>	19/12/2012
<b>F</b>	18/01/2013
<b>G</b>	14/12/2012
<b>H</b>	8/01/2013
<b>I</b>	13/12/2012
<b>J</b>	18/12/2012
<b>K</b>	18/12/2012
<b>L</b>	21/12/2012
<b>M</b>	04/01/2012
<b>N</b>	21/12/2012

**Discussion of Results**

***Test Weight***

Sample 1 – No outliers were observed.

Sample 2 – One outlier was identified for Lab **F** with a 1.09 percent discrepancy from the upper (70.41%) quartile limit.

Sample 3 – No outliers were observed.

***Impurities***

Sample 1 – No outliers were observed.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **C** with a 0.26 percent discrepancy from the upper (2.64%) quartile limit.



**2012 AOF Test Check Program**  
**Monthly Report**  
**Round 12**  
**December 2012**  
01/12/2012 – 31/12/2012

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***Oil Rapid***

Sample 1 – Outliers were identified for Lab **D** and **H**. Lab **D** results were 0.44 of a percent discrepancy from the upper (43.07%) quartile limit. Lab **H** results were 0.02 of a percent discrepancy from the lower (41.72%) quartile limit.

Sample 2 – One outlier was identified for Lab **H** with a 0.37 percent discrepancy from the lower (38.62%) quartile limit.

Sample 3 – One outlier was identified for Lab **D** with a 1.17 percent discrepancy from the upper (48.33%) quartile limit.

***Oil Solvent (ISO 659)***

No Outliers were identified for this test method. However, the number of participants has limited the statistical strength. A direct comparison between the participants can be made utilising the reproducibility limit for the ISO 659-2009 stated at 1.54% variability, between results.

Considering the reproducibility of this test, participants have published results within a tolerance of each other.

***Oil Solvent Reference (AOCS Method Am 2-93 - FOSFA)***

Sample 1 – One outlier was identified for Lab **B** with a 0.02 percent discrepancy from the upper (44.04%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **F** with a 0.50 percent discrepancy from the lower (46.65%) quartile limit.

***Moisture Oven***

Sample 1 – Outliers were identified for Lab **D** and **E**. Lab **D** results were 0.55 of a percent discrepancy from the lower (5.85%) quartile limit. Lab **E** results were 0.01 of a percent discrepancy from the lower (5.85%) quartile limit.

Sample 2 – One outlier was identified for Lab **D** with a 1.11 percent discrepancy from the lower (6.01%) quartile limit.

Sample 3 – One outlier was identified for Lab **D** with a 0.57 percent discrepancy from the lower (5.52%) quartile limit.



**2012 AOF Test Check Program**  
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**Round 12**  
**December 2012**  
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***Moisture Rapid***

Sample 1 – One outlier was identified for Lab **A** with a 0.30 percent discrepancy from the upper (6.75%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **M** with a 0.12 percent discrepancy from the lower (5.28%) quartile limit.

***Oleic Oil***

No outliers were observed for this test.

***Linoleic Oil***

Sample 1 – Outliers were identified for Lab **H** and **L**. Lab **H** results were 0.16 of a percent discrepancy from the lower (18.71%) quartile limit. Lab **L** results were 0.04 of a percent discrepancy from the upper (19.71%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – No outliers were observed.

***Free Fatty Acid***

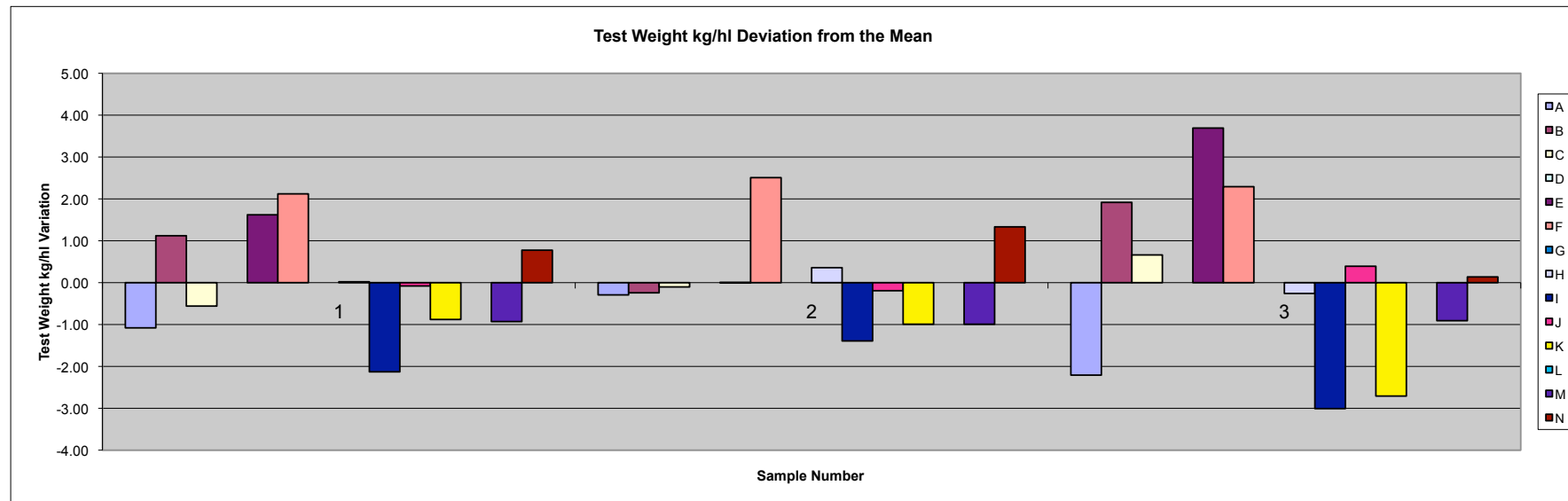
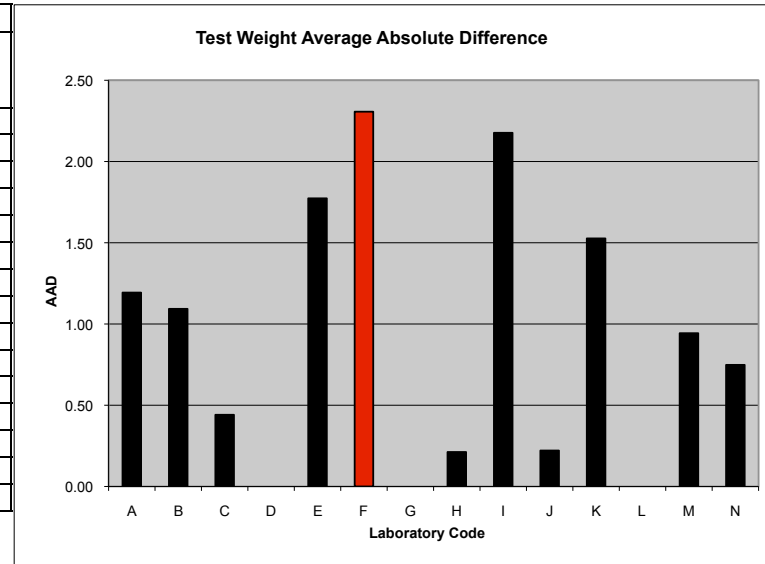
Sample 1 – Outliers were identified for Lab **E** and **F**. Lab **E** results were 0.10 of a percent discrepancy from the upper (1.03%) quartile limit. Lab **F** results were 0.21 of a percent discrepancy from the upper (1.03%) quartile limit.

Sample 2 – One outlier was identified for Lab **E** with a 0.18 percent discrepancy from the upper (1.23%) quartile limit.

Sample 3 – One outlier was identified for Lab **F** with a 0.86 percent discrepancy from the upper (0.51%) quartile limit.

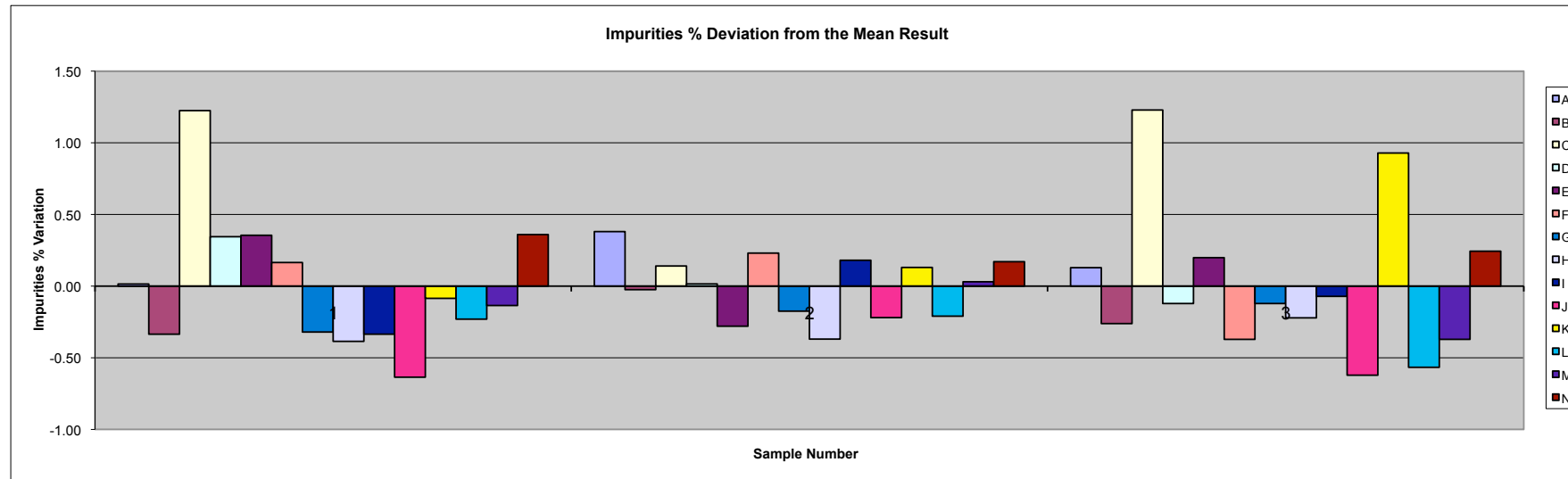
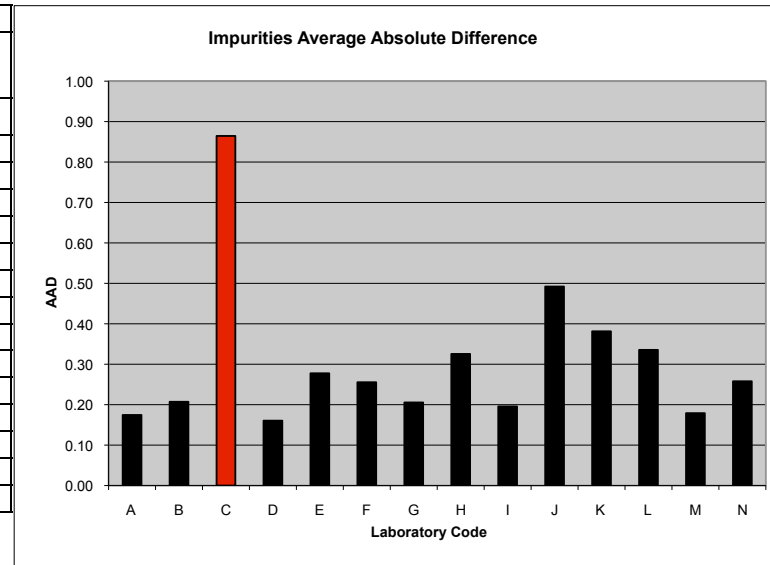
**2012 AOF Test Check Program  
Round 12 Summary - December**

Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	65.80	-1.08	68.70	-0.29	63.50	-2.21	-1.19	1.19
B	68.00	1.12	68.75	-0.24	67.63	1.92	0.93	1.09
C	66.32	-0.56	68.89	-0.10	66.37	0.66	0.00	0.44
D								
E	68.50	1.62	69.00	0.01	69.40	3.69	1.77	1.77
F	69.00	2.12	71.50	2.51	68.00	2.29	2.31	2.31
G								
H	66.90	0.02	69.35	0.36	65.45	-0.26	0.04	0.21
I	64.75	-2.13	67.60	-1.39	62.70	-3.01	-2.18	2.18
J	66.80	-0.08	68.80	-0.19	66.10	0.39	0.04	0.22
K	66.00	-0.88	68.00	-0.99	63.00	-2.71	-1.53	1.53
L								
M	65.95	-0.93	68.00	-0.99	64.80	-0.91	-0.94	0.94
N	67.66	0.78	70.33	1.33	65.85	0.14	0.75	0.75
MEAN	66.88		68.99		65.71			1.15
STDEV	1.29		1.11		2.13			



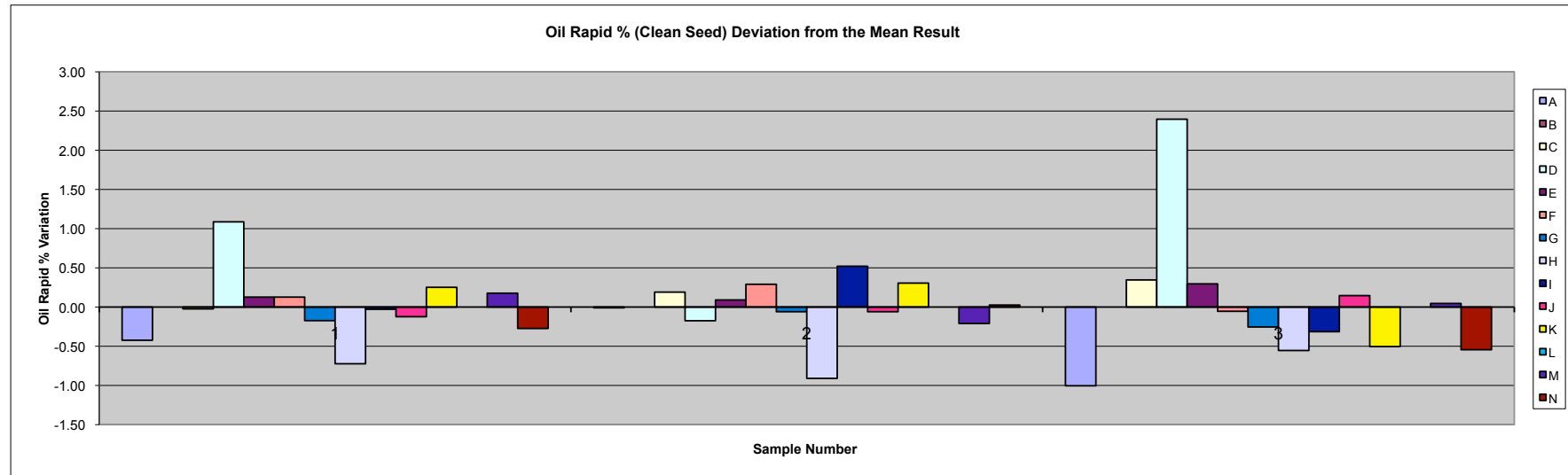
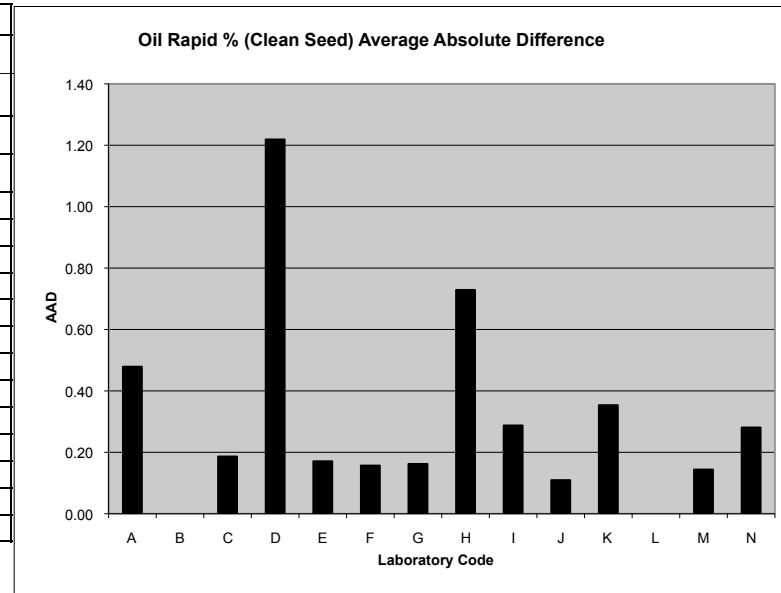
**2012 AOF Test Check Program  
Round 12 Summary - December**

Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	1.60	0.01	0.95	0.38	1.80	0.13	0.17	0.17
B	1.25	-0.34	0.55	-0.02	1.41	-0.26	-0.21	0.21
C	2.81	1.22	0.71	0.14	2.90	1.23	0.86	0.86
D	1.93	0.34	0.59	0.02	1.55	-0.12	0.08	0.16
E	1.94	0.35	0.29	-0.28	1.87	0.20	0.09	0.28
F	1.75	0.16	0.80	0.23	1.30	-0.37	0.01	0.26
G	1.27	-0.32	0.40	-0.17	1.55	-0.12	-0.21	0.21
H	1.20	-0.39	0.20	-0.37	1.45	-0.22	-0.33	0.33
I	1.25	-0.34	0.75	0.18	1.60	-0.07	-0.08	0.20
J	0.95	-0.64	0.35	-0.22	1.05	-0.62	-0.49	0.49
K	1.50	-0.09	0.70	0.13	2.60	0.93	0.32	0.38
L	1.36	-0.23	0.36	-0.21	1.11	-0.57	-0.34	0.34
M	1.45	-0.14	0.60	0.03	1.30	-0.37	-0.16	0.18
N	1.95	0.36	0.74	0.17	1.92	0.24	0.26	0.26
<b>MEAN</b>	<b>1.59</b>		<b>0.57</b>		<b>1.67</b>			<b>0.31</b>
<b>STDEV</b>	<b>0.47</b>		<b>0.22</b>		<b>0.53</b>			



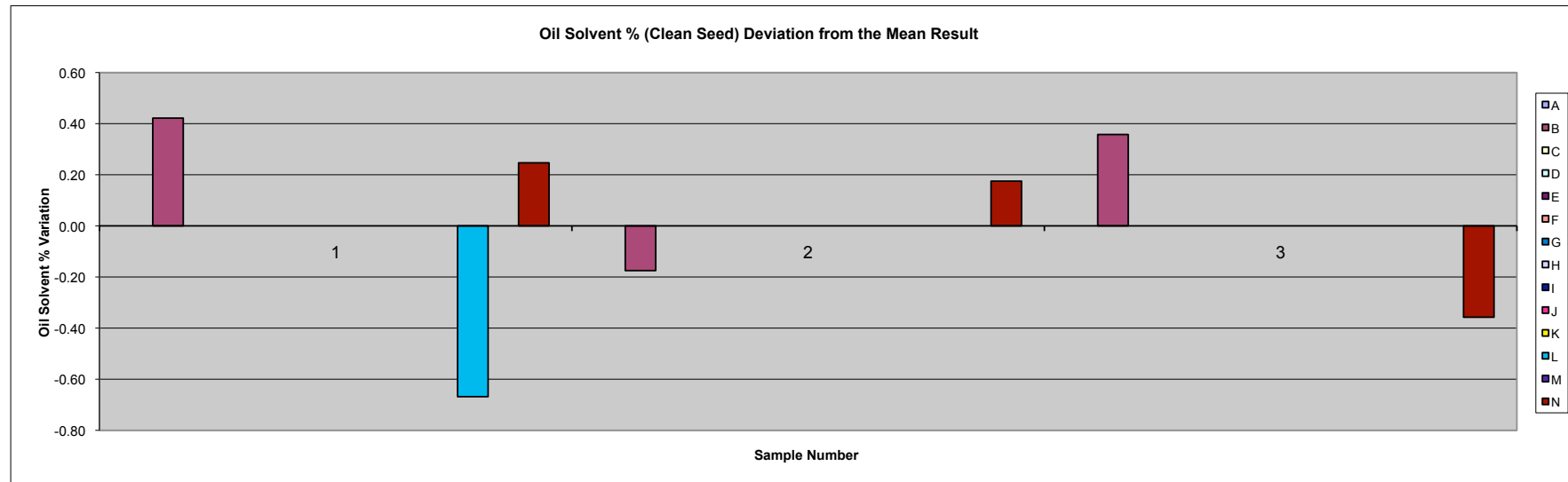
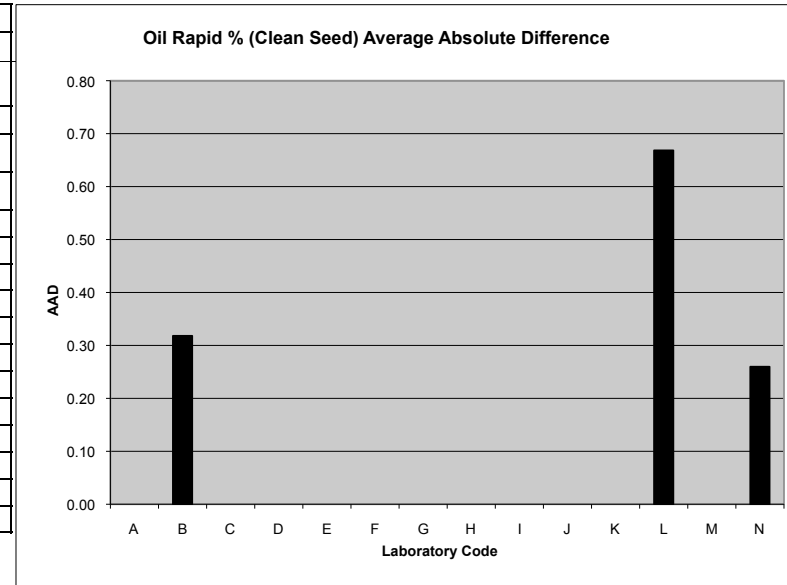
**2012 AOF Test Check Program  
Round 12 Summary - December**

Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	42.00	-0.42	39.15	-0.01	46.10	-1.00	-0.48	0.48
B								
C	42.40	-0.02	39.35	0.19	47.45	0.35	0.17	0.19
D	43.51	1.09	38.99	-0.17	49.50	2.40	1.10	1.22
E	42.55	0.13	39.25	0.09	47.40	0.30	0.17	0.17
F	42.55	0.13	39.45	0.29	47.05	-0.05	0.12	0.16
G	42.25	-0.17	39.10	-0.06	46.85	-0.25	-0.16	0.16
H	41.70	-0.72	38.25	-0.91	46.55	-0.55	-0.73	0.73
I	42.40	-0.03	39.68	0.52	46.79	-0.31	0.06	0.29
J	42.30	-0.12	39.10	-0.06	47.25	0.15	-0.01	0.11
K	42.68	0.25	39.47	0.31	46.60	-0.50	0.02	0.35
L								
M	42.60	0.18	38.95	-0.21	47.15	0.05	0.00	0.14
N	42.15	-0.27	39.19	0.03	46.56	-0.54	-0.26	0.28
<b>MEAN</b>	<b>42.42</b>		<b>39.16</b>		<b>47.10</b>			<b>0.36</b>
<b>STDEV</b>	<b>0.44</b>		<b>0.36</b>		<b>0.85</b>			



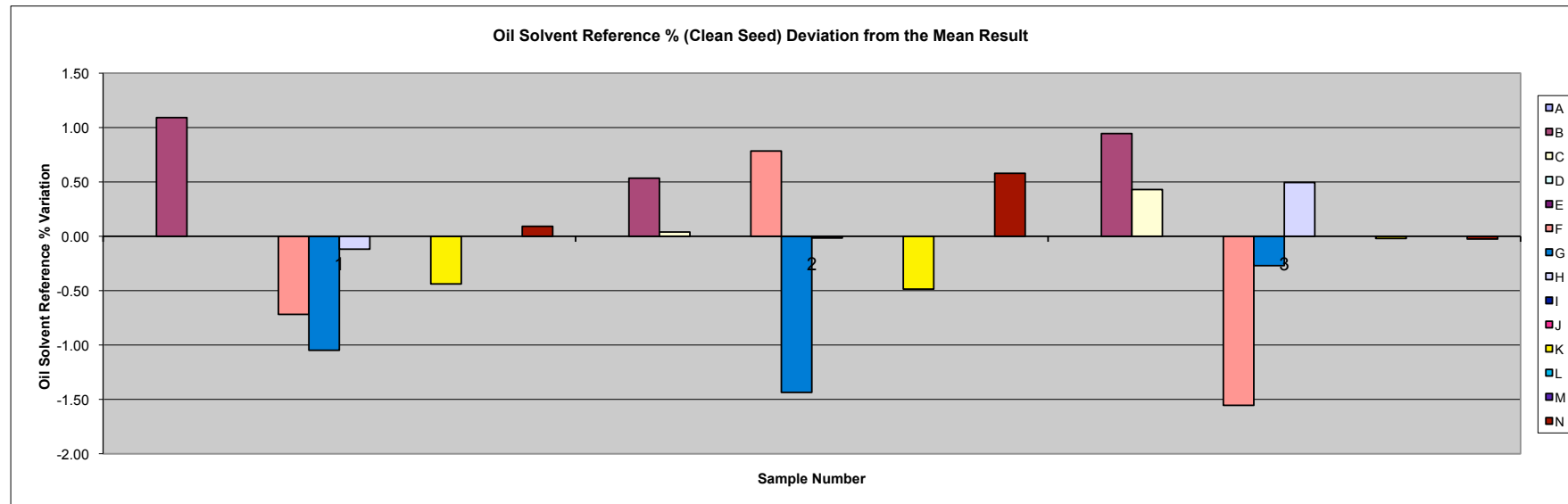
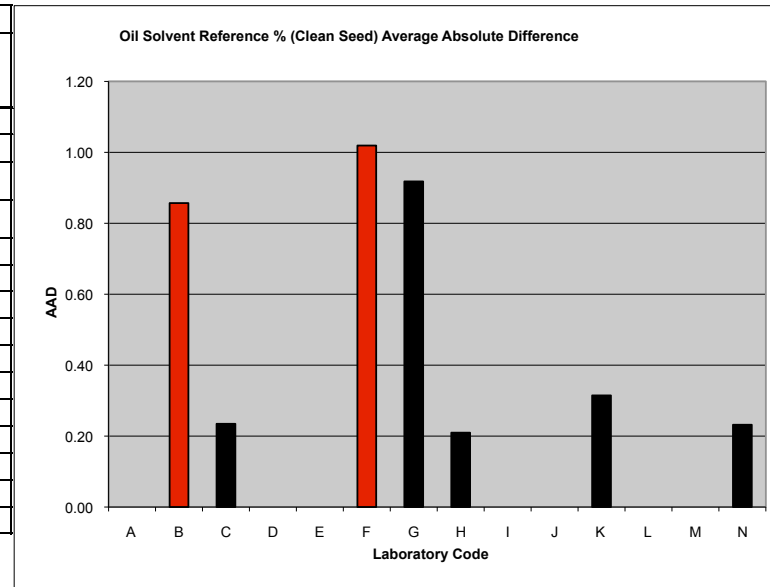
**2012 AOF Test Check Program  
Round 12 Summary - December**

Oil Solvent % (Clean Seed) - ISO Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	43.39	0.42	39.05	-0.17	48.56	0.36	0.20	0.32
C								
D								
E								
F								
G								
H								
I								
J								
K								
L	42.30	-0.67					-0.67	0.67
M								
N	43.22	0.25	39.40	0.18	47.85	-0.36	0.02	0.26
<b>MEAN</b>	<b>42.97</b>		<b>39.23</b>		<b>48.20</b>			<b>0.42</b>
<b>STDEV</b>	<b>0.59</b>		<b>0.25</b>		<b>0.51</b>			



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Round 12 Summary - December**

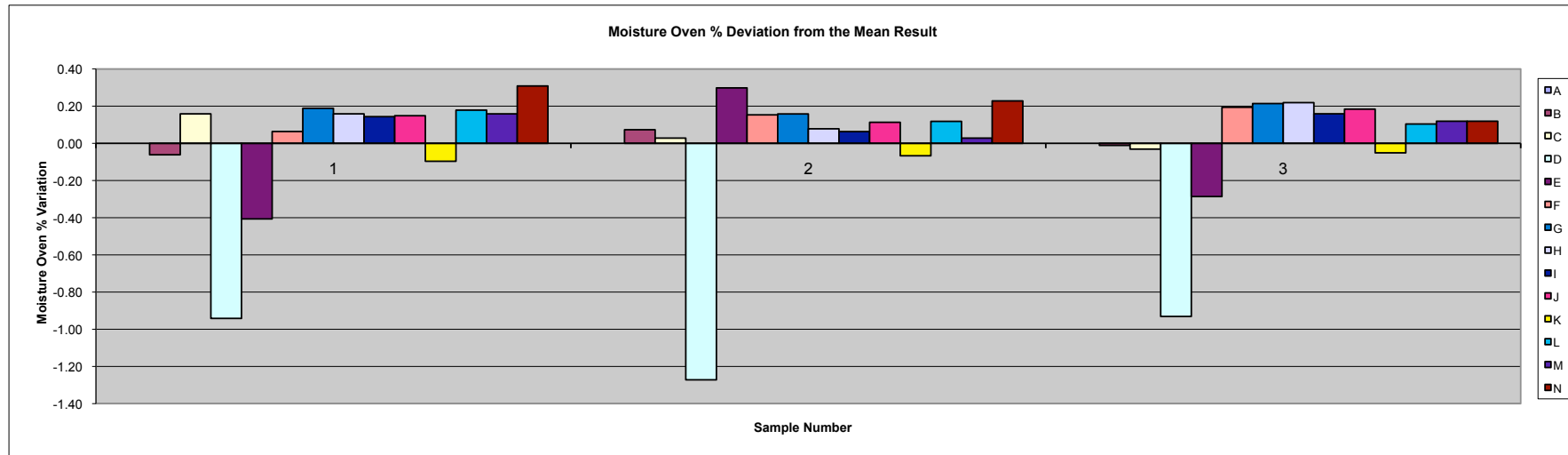
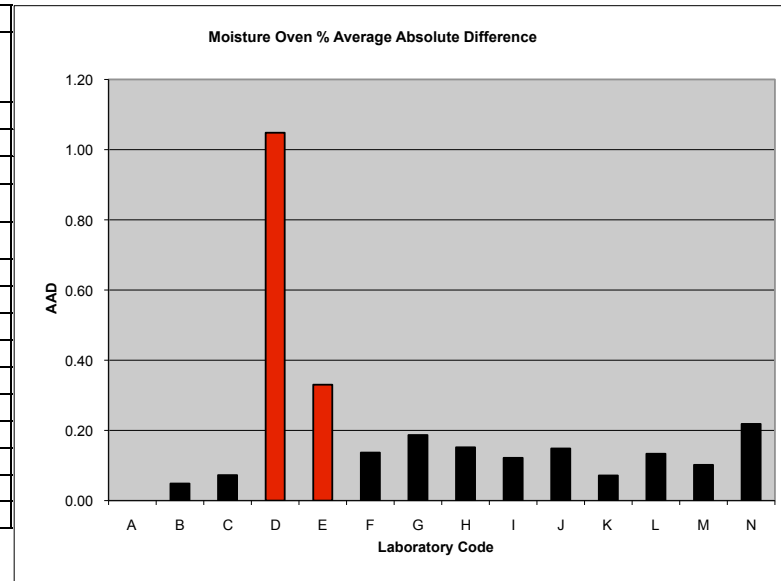
FOSFA % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	44.06	1.09	39.40	0.53	48.65	0.95	0.86	0.86
C			38.91	0.04	48.14	0.43	0.23	0.23
D								
E								
F	42.25	-0.72	39.65	0.78	46.15	-1.55	-0.50	1.02
G	41.92	-1.05	37.43	-1.44	47.44	-0.27	-0.92	0.92
H	42.85	-0.12	38.85	-0.02	48.20	0.50	0.12	0.21
I								
J								
K	42.53	-0.44	38.38	-0.49	47.69	-0.02	-0.31	0.31
L								
M								
N	43.06	0.09	39.45	0.58	47.68	-0.02	0.22	0.23
MEAN	42.78		38.87		47.71			0.54
STDEV	0.75		0.77		0.80			





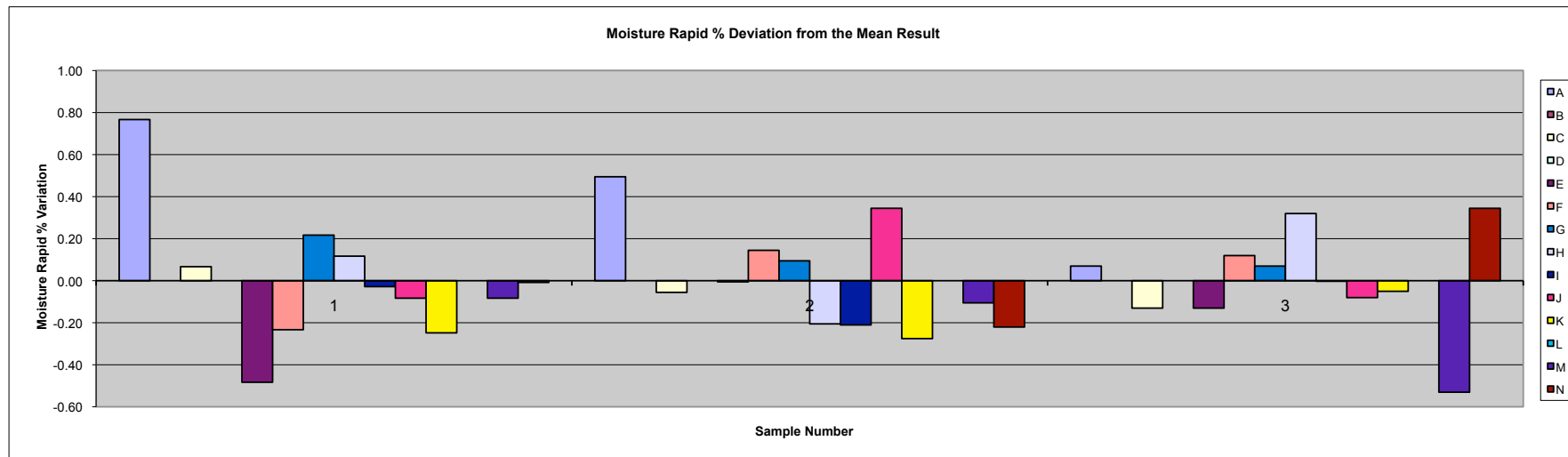
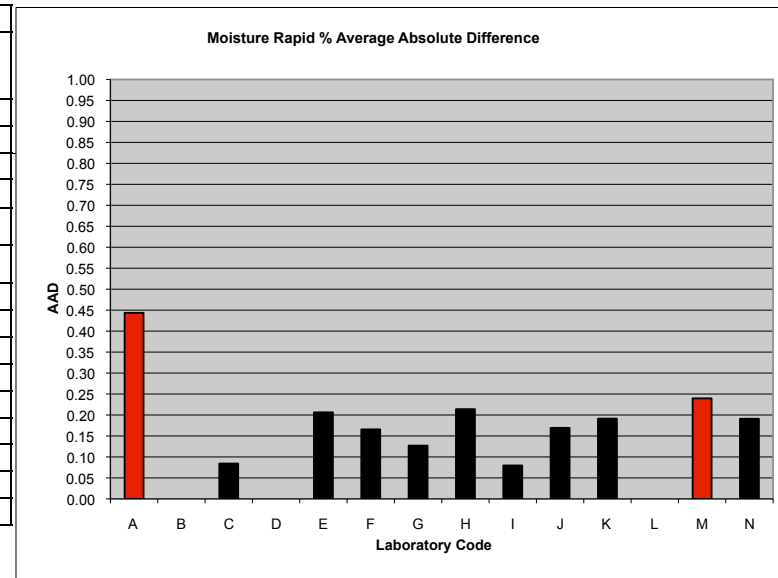
**2012 AOF Test Check Program  
Round 12 Summary - December**

Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	6.18	-0.06	6.25	0.07	5.87	-0.01	0.00	0.05
C	6.40	0.16	6.20	0.03	5.85	-0.03	0.05	0.07
D	5.30	-0.94	4.90	-1.27	4.95	-0.93	-1.05	1.05
E	5.84	-0.41	6.47	0.30	5.60	-0.29	-0.13	0.33
F	6.31	0.06	6.33	0.15	6.08	0.19	0.14	0.14
G	6.43	0.19	6.33	0.16	6.10	0.21	0.19	0.19
H	6.40	0.16	6.25	0.08	6.10	0.22	0.15	0.15
I	6.39	0.14	6.24	0.06	6.04	0.16	0.12	0.12
J	6.39	0.15	6.29	0.11	6.07	0.18	0.15	0.15
K	6.15	-0.10	6.11	-0.07	5.83	-0.05	-0.07	0.07
L	6.42	0.18	6.29	0.12	5.99	0.10	0.13	0.13
M	6.40	0.16	6.20	0.03	6.00	0.12	0.10	0.10
N	6.55	0.31	6.40	0.23	6.00	0.12	0.22	0.22
<b>MEAN</b>	<b>6.24</b>		<b>6.17</b>		<b>5.88</b>			<b>0.21</b>
<b>STDEV</b>	<b>0.34</b>		<b>0.39</b>		<b>0.31</b>			



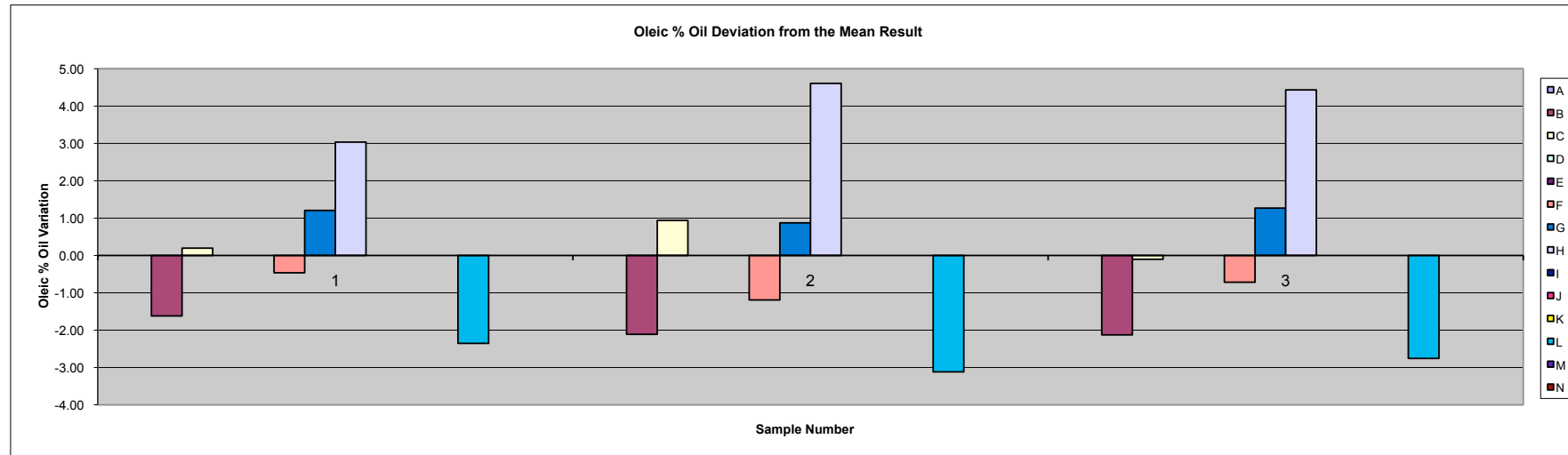
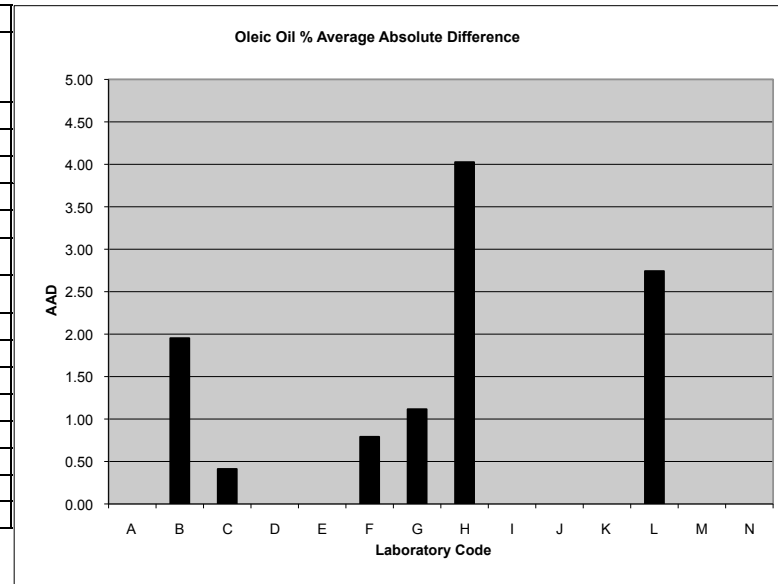
**2012 AOF Test Check Program  
Round 12 Summary - December**

Moisture Rapid % Deviation from the Mean									
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference	
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean			
A	7.05	0.77	7.05	0.49	5.75	0.07	0.44	0.44	
B									
C	6.35	0.07	6.50	-0.06	5.55	-0.13	-0.04	0.08	
D									
E	5.80	-0.48	6.55	-0.01	5.55	-0.13	-0.21	0.21	
F	6.05	-0.23	6.70	0.14	5.80	0.12	0.01	0.17	
G	6.50	0.22	6.65	0.09	5.75	0.07	0.13	0.13	
H	6.40	0.12	6.35	-0.21	6.00	0.32	0.08	0.21	
I	6.26	-0.03	6.35	-0.21	5.68	0.00	-0.08	0.08	
J	6.20	-0.08	6.90	0.34	5.60	-0.08	0.06	0.17	
K	6.04	-0.25	6.28	-0.28	5.63	-0.05	-0.19	0.19	
L									
M	6.20	-0.08	6.45	-0.11	5.15	-0.53	-0.24	0.24	
N	6.28	-0.01	6.34	-0.22	6.03	0.34	0.04	0.19	
MEAN	6.28		6.56		5.68			0.19	
STDEV	0.32		0.25		0.24				



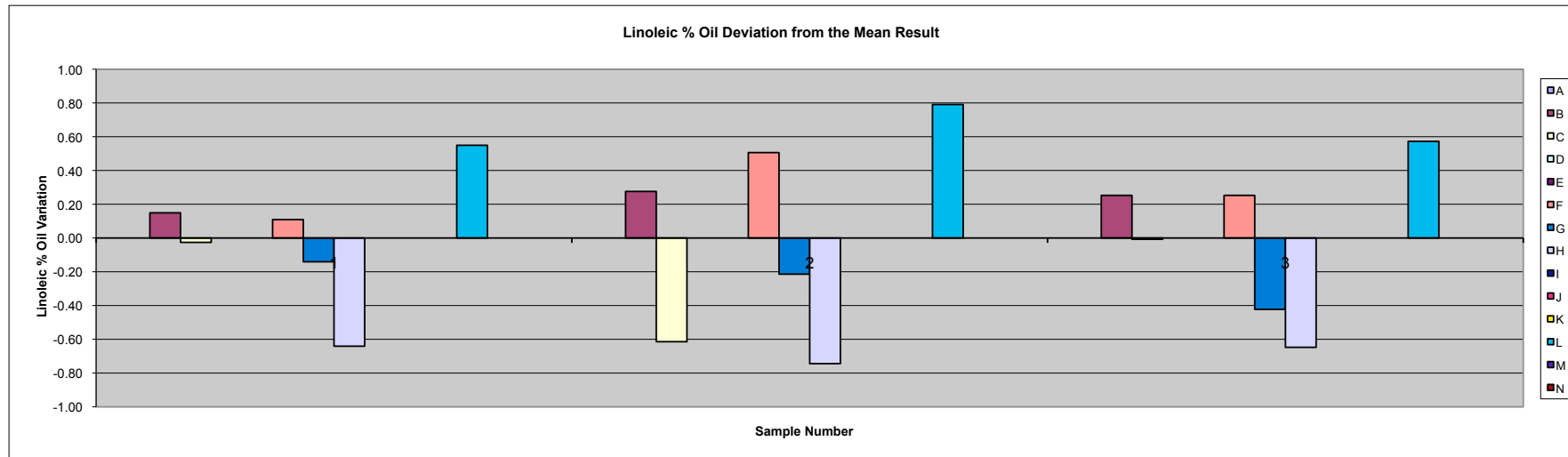
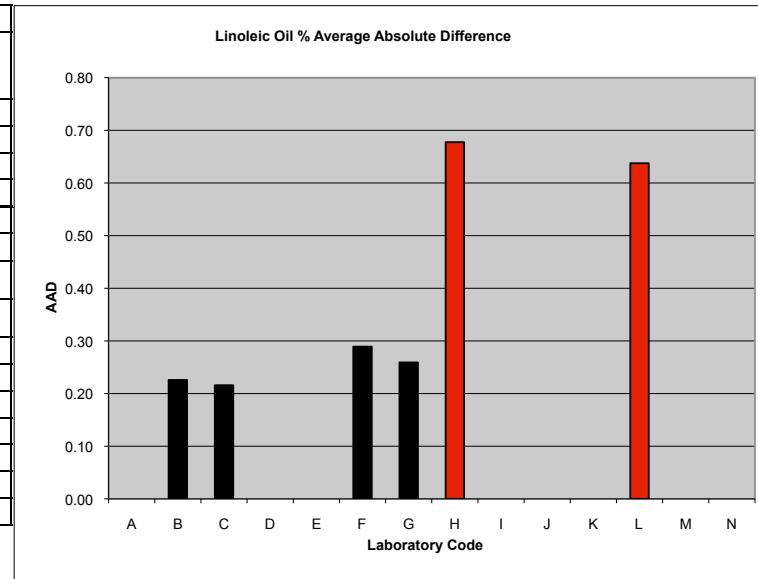
**2012 AOF Test Check Program  
Round 12 Summary - December**

Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	61.45	-1.62	62.18	-2.11	63.09	-2.13	-1.95	1.95
C	63.26	0.20	65.23	0.94	65.12	-0.10	0.34	0.41
D								
E								
F	62.60	-0.46	63.10	-1.19	64.50	-0.72	-0.79	0.79
G	64.27	1.21	65.17	0.87	66.49	1.27	1.12	1.12
H	66.10	3.04	68.90	4.61	69.65	4.43	4.03	4.03
I								
J								
K								
L	60.71	-2.35	61.18	-3.12	62.46	-2.76	-2.74	2.74
M								
N								
<b>MEAN</b>	<b>63.06</b>		<b>64.29</b>		<b>65.22</b>			<b>1.84</b>
<b>STDEV</b>	<b>1.95</b>		<b>2.77</b>		<b>2.60</b>			



**2012 AOF Test Check Program  
Round 12 Summary - December**

Linoleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	19.34	0.15	18.92	0.28	18.40	0.25	0.23	0.23
C	19.17	-0.03	18.03	-0.61	18.14	-0.01	-0.22	0.22
D								
E								
F	19.30	0.11	19.15	0.51	18.40	0.25	0.29	0.29
G	19.05	-0.14	18.43	-0.21	17.73	-0.42	-0.26	0.26
H	18.55	-0.64	17.90	-0.74	17.50	-0.65	-0.68	0.68
I								
J								
K								
L	19.74	0.55	19.44	0.79	18.72	0.57	0.64	0.64
M								
N								
MEAN	19.19		18.64		18.15			0.38
STDEV	0.39		0.62		0.46			



**2012 AOF Test Check Program  
Round 12 Summary - December**

Free Fatty Acid % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	0.27	-0.27	0.45	-0.23	0.09	-0.24	-0.25	0.25
C	0.35	-0.19	0.35	-0.33	0.11	-0.22	-0.25	0.25
D								
E	1.13	0.59	1.41	0.73	0.49	0.16	0.49	0.49
F	1.24	0.70	0.74	0.06	1.36	1.03	0.59	0.59
G	0.39	-0.15	0.81	0.12	0.18	-0.15	-0.06	0.14
H	0.29	-0.25	0.75	0.06	0.12	-0.21	-0.13	0.17
I								
J								
K	0.27	-0.27	0.46	-0.22	0.08	-0.25	-0.25	0.25
L	0.40	-0.14	0.51	-0.17	0.19	-0.14	-0.15	0.15
M								
N								
MEAN	0.54		0.68		0.33			0.29
STDEV	0.40		0.34		0.44			

