



**2012 AOF Test Check Program
Monthly Report
Round 10
October 2012
01/10/2012 – 30/10/2012**

Result Receiving Dates

Lab Code	Date
A	11/10/2012
B	31/10/2012
C	05/11/2012
D	02/11/2012
E	17/10/2012
F	08/11/2012
G	25/10/2012
H	01/11/2012
I	15/10/2012
J	30/10/2012
K	17/10/2012
L	26/10/2012
M	30/10/2012
N	15/10/2012

Discussion of Results

Test Weight

- Sample 1 – One outlier was identified for Lab **C** with a 0.83 percent discrepancy from the upper (67.83%) quartile limit.
- Sample 2 – One outlier was identified for Lab **I** with a 0.41 percent discrepancy from the lower (62.76%) 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 0.08 percent discrepancy from the upper (1.43%) quartile limit.



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Oil Rapid

Sample 1 – One outlier was identified for Lab **D** with a 0.38 percent discrepancy from the upper (43.81%) quartile limit.

Sample 2 – One outlier was identified for Lab **D** with a 1.06 percent discrepancy from the upper (48.15%) quartile limit.

Sample 3 – Outliers were identified for Lab **H** and **N**. Lab H results were 0.44 of a percent discrepancy from the lower (39.29%) quartile limit. Lab N results were 0.06 of a percent discrepancy from the lower (40.29%) 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 using previous year's data observing no significant differences greater than 1%, and the ISO 659-2009 with a reproducibility limit stated as 1.54%.

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 **G** with a 0.56 percent discrepancy from the lower (41.73%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – No outliers were observed.

Moisture Oven

Sample 1 – Outliers were identified for Lab's **D**, **F** and **K**. Lab D and K results were 0.17 and 0.04 of a percent discrepancy respectively from the lower (5.37%) quartile limit. Lab F results were 0.08 of a percent discrepancy from the upper (5.67%) quartile limit.

Sample 2 – One outlier was identified for Lab **E** with a 0.09 percent discrepancy from the lower (5.98%) quartile limit.

Sample 3 – Outliers were identified for Lab **E** and **K**. Lab E results were 0.01 of a percent discrepancy from the upper (6.72%) quartile limit. Lab K results were found on the lower quartile limit of 6.63%.



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Moisture Rapid

Sample 1 – No outliers were observed.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **A** with a 0.30 percent discrepancy from the upper (7.00%) quartile limit.

Oleic Oil

Sample 1 – One outlier was identified for Lab **H** with a 0.43 of a percent discrepancy from the upper (61.03 %) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – No outliers were observed.

Linoleic Oil

No outliers were observed for this test.

Free Fatty Acid

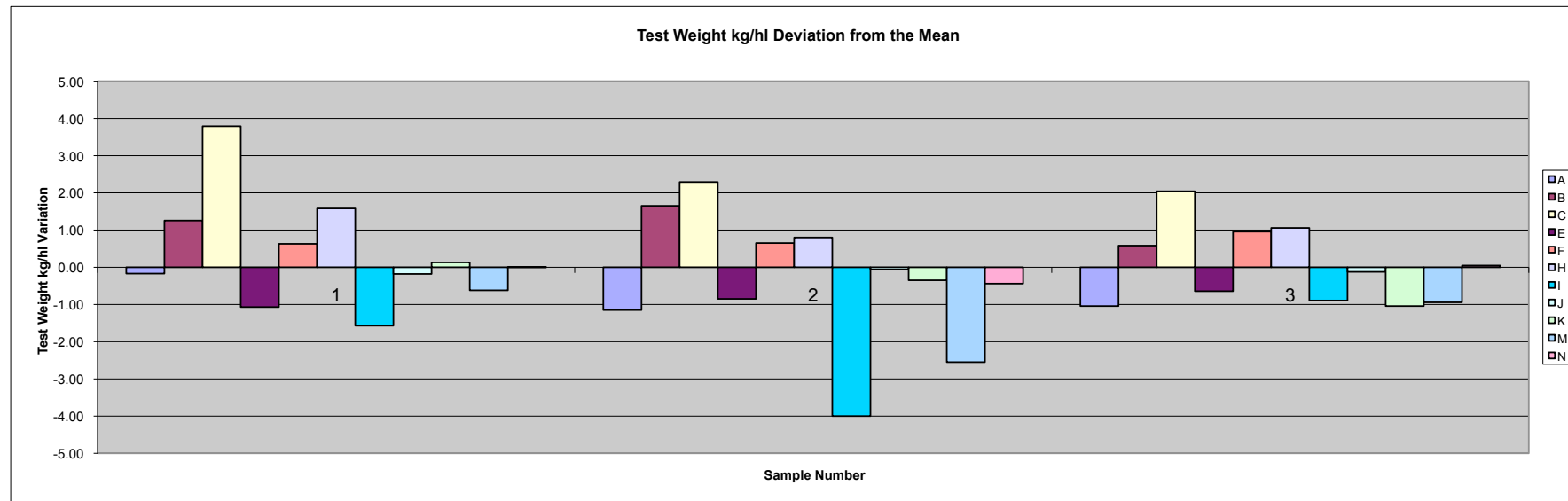
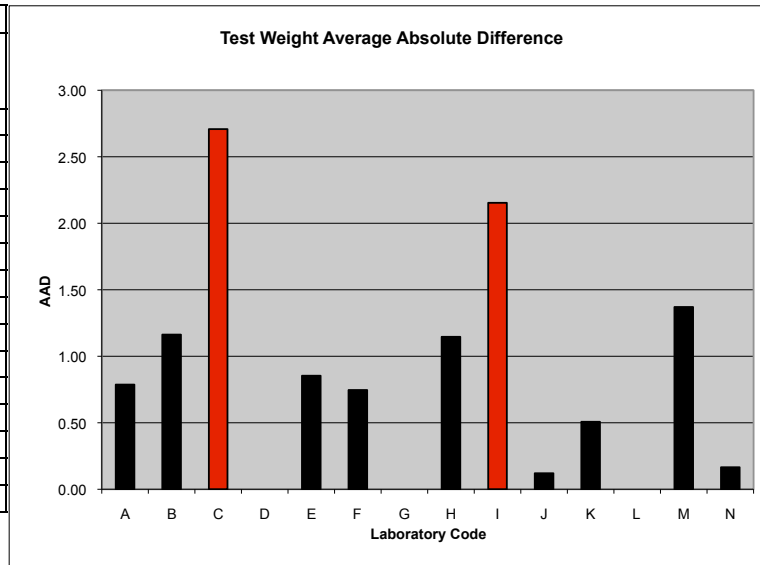
Sample 1 – No outliers were observed.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **E** with a 0.05 of a percent discrepancy from the upper (1.10%) quartile limit.

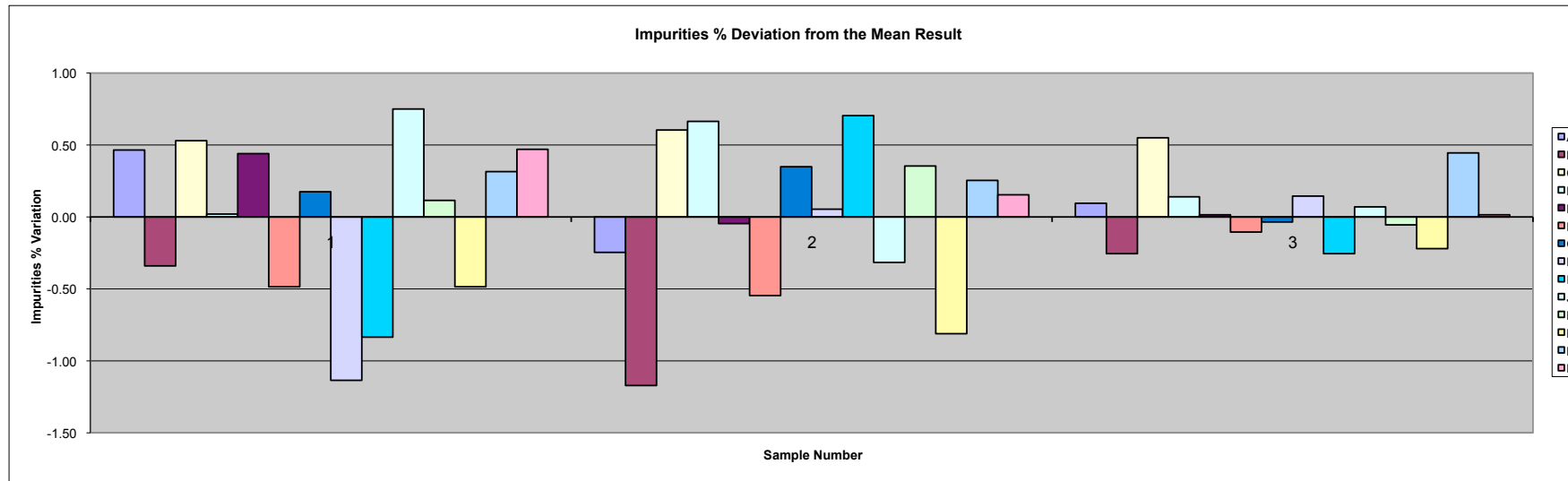
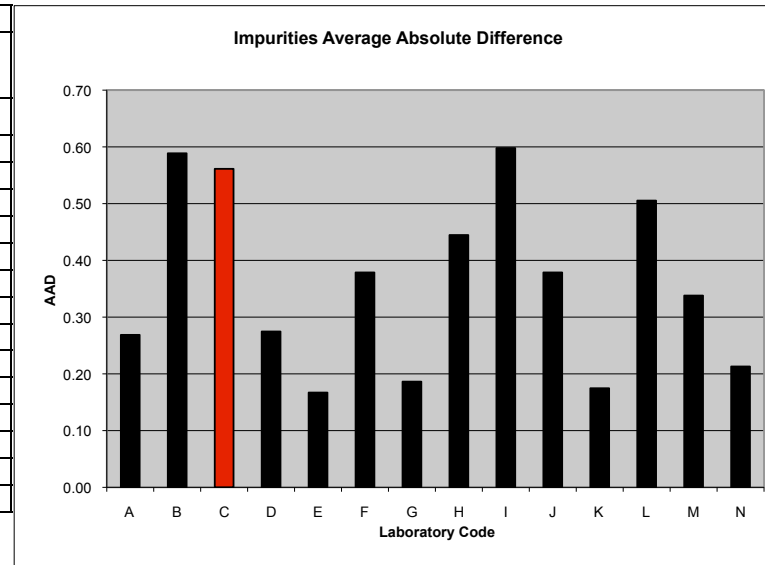
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	64.70	-0.17	65.20	-1.15	66.00	-1.04	-0.79	0.79
B	66.13	1.26	68.00	1.65	67.63	0.58	1.16	1.16
C	68.66	3.79	68.64	2.29	69.09	2.04	2.71	2.71
D								
E	63.80	-1.07	65.50	-0.85	66.40	-0.64	-0.85	0.85
F	65.50	0.63	67.00	0.65	68.00	0.96	0.75	0.75
G								
H	66.45	1.58	67.15	0.80	68.10	1.06	1.15	1.15
I	63.30	-1.57	62.35	-4.00	66.15	-0.89	-2.15	2.15
J	64.69	-0.18	66.29	-0.06	66.92	-0.12	-0.12	0.12
K	65.00	0.13	66.00	-0.35	66.00	-1.04	-0.42	0.51
L								
M	64.25	-0.62	63.80	-2.55	66.10	-0.94	-1.37	1.37
N	64.88	0.01	65.91	-0.44	67.09	0.05	-0.13	0.17
MEAN	64.87		66.35		67.04			1.07
STDEV	0.97		1.41		1.04			



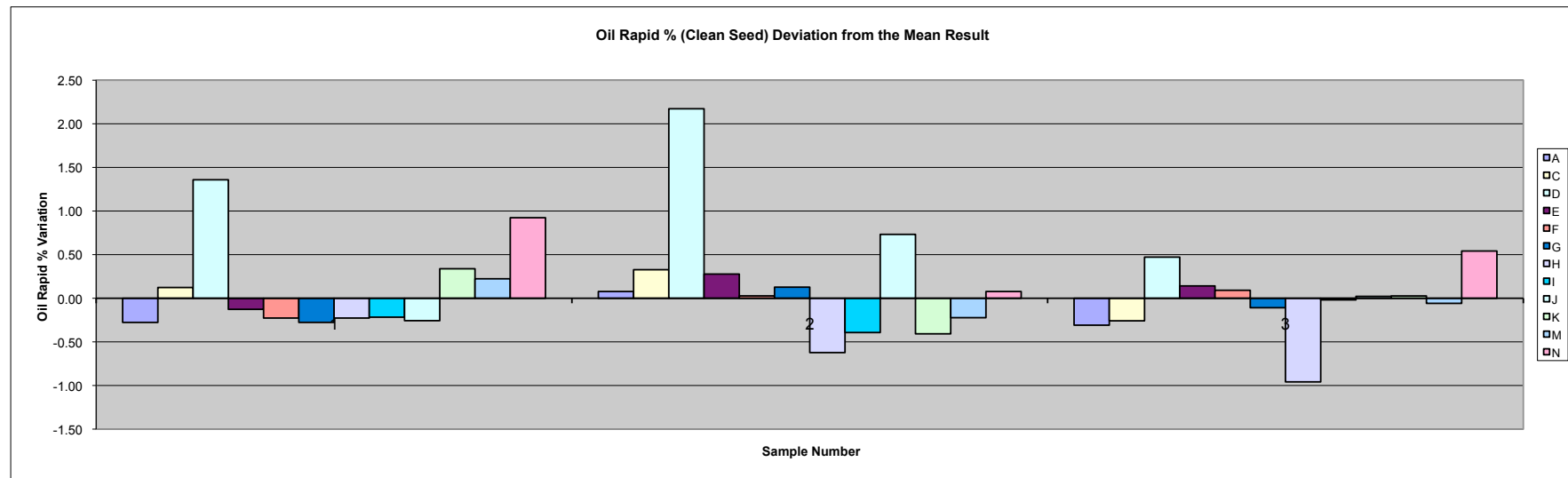
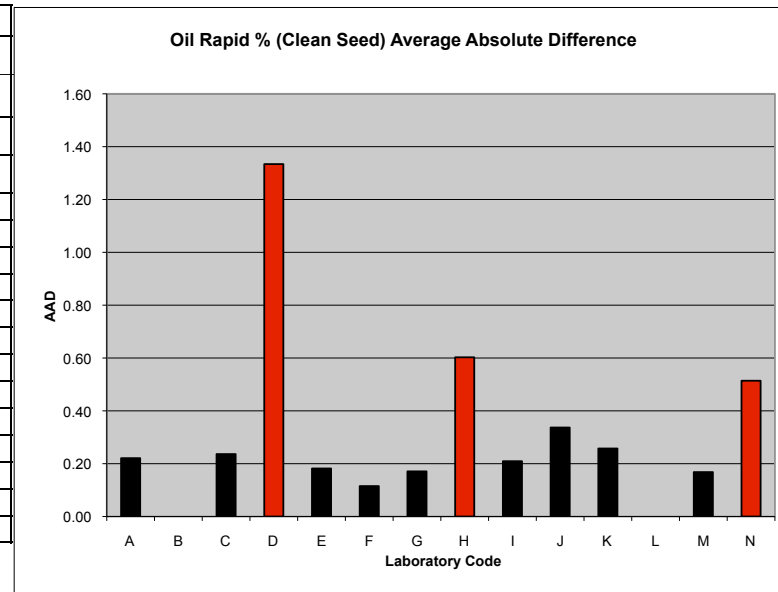
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	2.35	0.47	1.65	-0.25	1.05	0.10	0.10	0.27
B	1.55	-0.34	0.73	-1.17	0.70	-0.26	-0.59	0.59
C	2.42	0.53	2.50	0.60	1.51	0.55	0.56	0.56
D	1.91	0.02	2.56	0.66	1.10	0.14	0.27	0.27
E	2.33	0.44	1.85	-0.05	0.97	0.01	0.14	0.17
F	1.40	-0.49	1.35	-0.55	0.85	-0.11	-0.38	0.38
G	2.06	0.18	2.25	0.35	0.92	-0.04	0.16	0.19
H	0.75	-1.14	1.95	0.05	1.10	0.15	-0.31	0.44
I	1.05	-0.84	2.60	0.70	0.70	-0.26	-0.13	0.60
J	2.64	0.75	1.58	-0.32	1.03	0.07	0.17	0.38
K	2.00	0.12	2.25	0.35	0.90	-0.06	0.14	0.17
L	1.40	-0.49	1.09	-0.81	0.74	-0.22	-0.51	0.51
M	2.20	0.32	2.15	0.25	1.40	0.45	0.34	0.34
N	2.36	0.47	2.05	0.15	0.97	0.01	0.21	0.21
MEAN	1.89		1.90		0.96			0.36
STDEV	0.57		0.56		0.19			



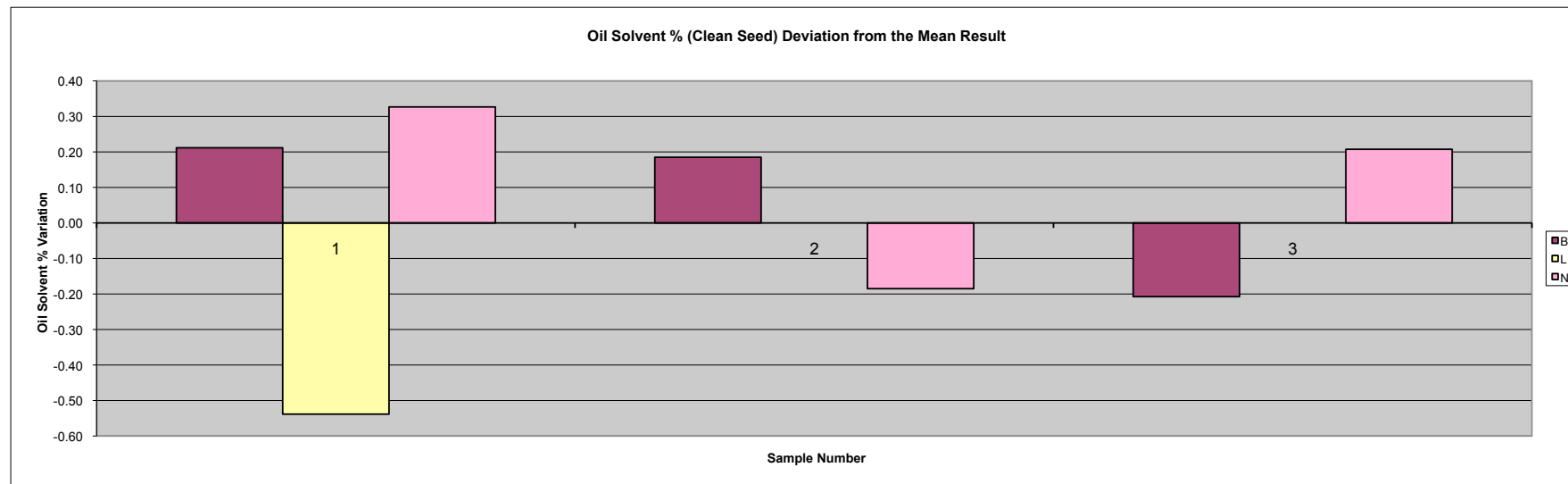
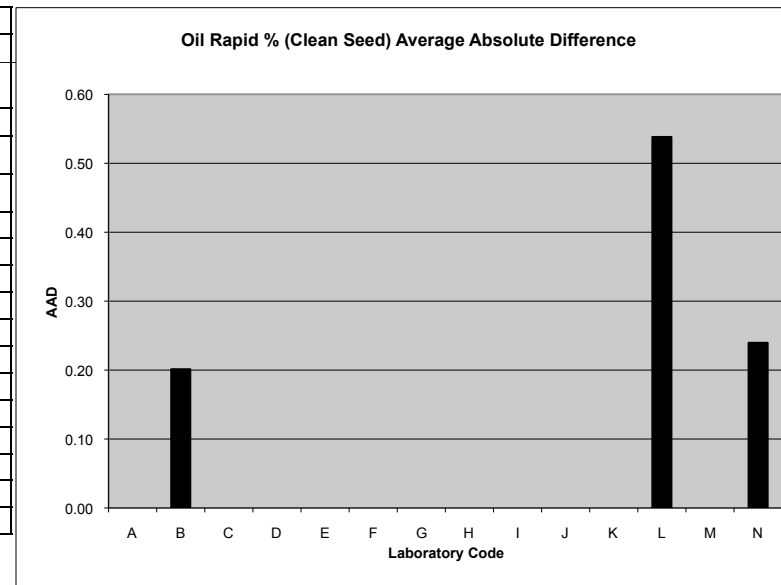
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	42.55	-0.28	47.10	0.08	39.50	-0.31	-0.17	0.22
B								
C	42.95	0.12	47.35	0.33	39.55	-0.26	0.06	0.24
D	44.19	1.36	49.20	2.17	40.28	0.47	1.33	1.33
E	42.70	-0.13	47.30	0.28	39.95	0.14	0.10	0.18
F	42.60	-0.23	47.05	0.03	39.90	0.09	-0.04	0.12
G	42.55	-0.28	47.15	0.13	39.70	-0.11	-0.09	0.17
H	42.60	-0.23	46.40	-0.62	38.85	-0.96	-0.60	0.60
I	42.61	-0.22	46.63	-0.39	39.79	-0.02	-0.21	0.21
J	42.57	-0.26	47.76	0.73	39.83	0.02	0.17	0.34
K	43.17	0.34	46.62	-0.41	39.84	0.03	-0.01	0.26
L								
M	43.05	0.22	46.80	-0.22	39.75	-0.06	-0.02	0.17
N	43.75	0.92	47.10	0.08	40.35	0.54	0.51	0.51
MEAN	42.83		47.02		39.81			0.36
STDEV	0.38		0.39		0.22			



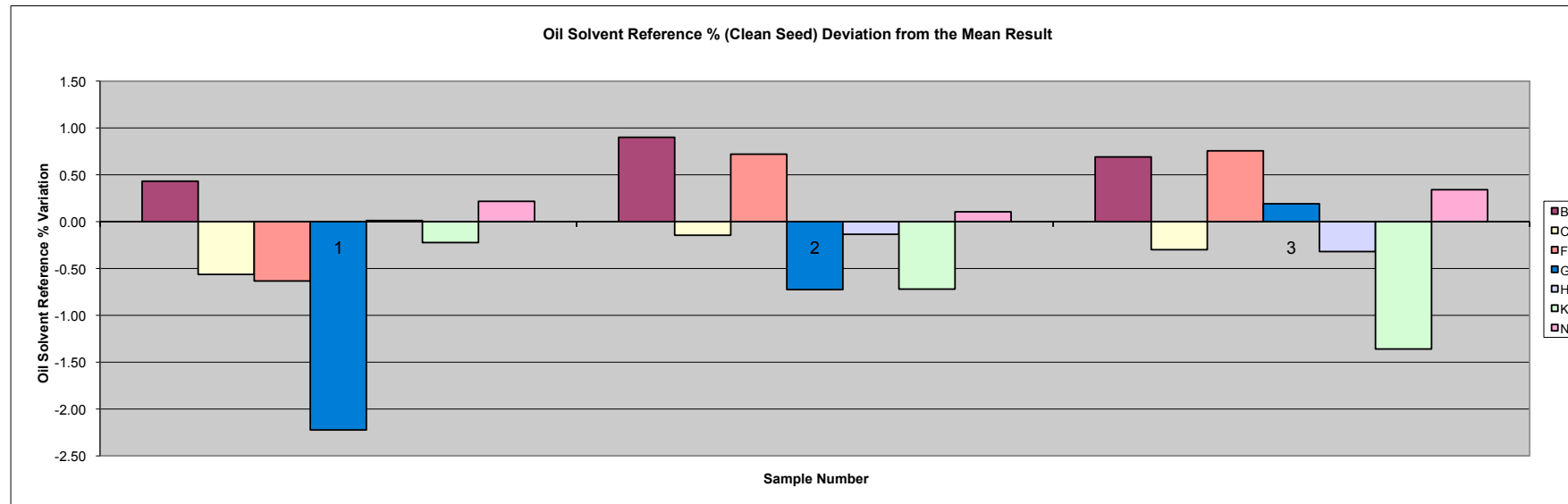
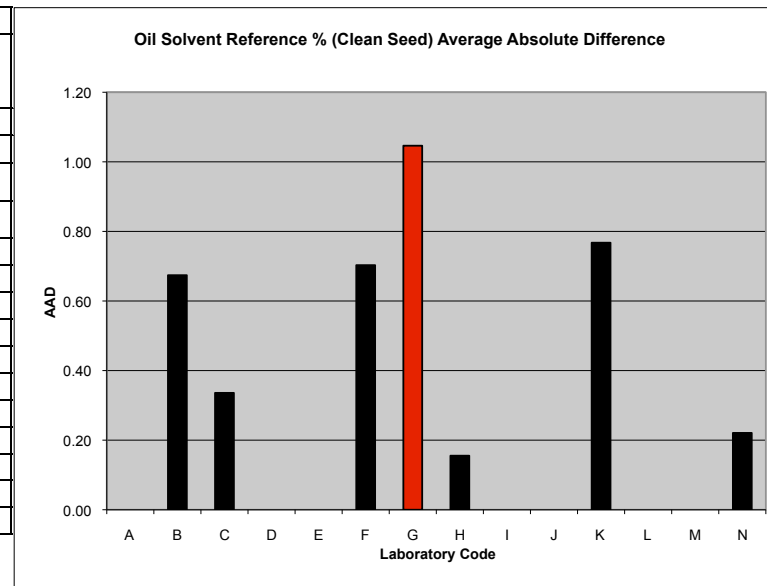
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	43.60	0.21	47.89	0.19	40.23	-0.21	0.06	0.20
C								
D								
E								
F								
G								
H								
I								
J								
K								
L	42.85	-0.54					-0.54	0.54
M								
N	43.72	0.33	47.52	-0.19	40.65	0.21	0.12	0.24
MEAN	43.39		47.71		40.44			0.33
STDEV	0.47		0.26		0.29			



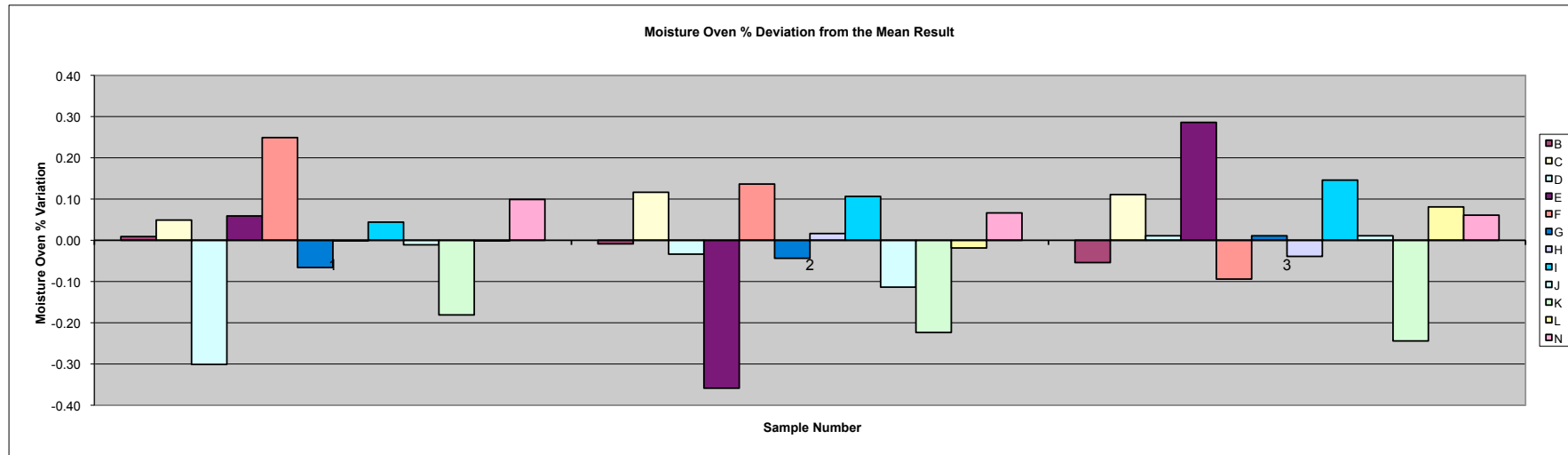
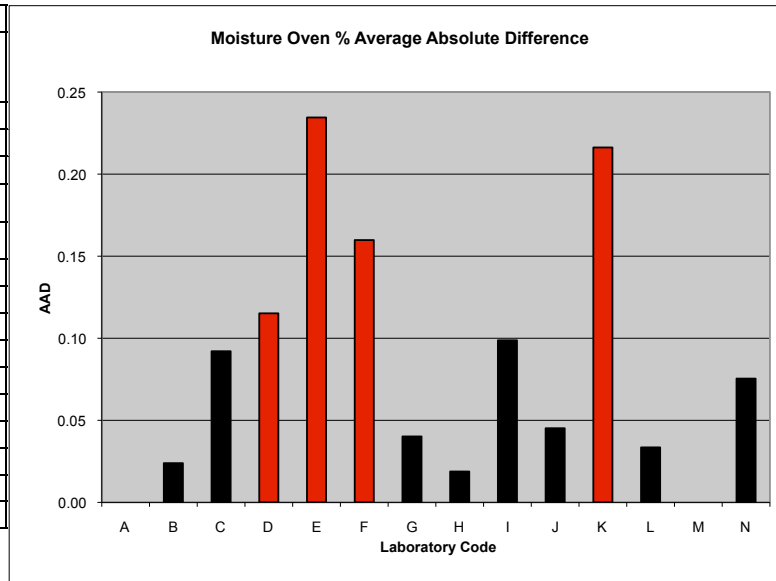
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Oil Solvent Reference % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	43.82	0.43	48.04	0.90	40.46	0.69	0.67	0.67
C	42.83	-0.56	46.99	-0.14	39.47	-0.30	-0.34	0.34
D								
E								
F	42.76	-0.63	47.86	0.72	40.53	0.76	0.28	0.70
G	41.17	-2.22	46.41	-0.73	39.96	0.19	-0.92	1.05
H	43.40	0.01	47.00	-0.13	39.45	-0.32	-0.15	0.16
I								
J								
K	43.17	-0.22	46.42	-0.72	38.41	-1.36	-0.77	0.77
L								
M								
N	43.61	0.22	47.24	0.11	40.11	0.34	0.22	0.22
MEAN	43.26		47.14		39.77			0.56
STDEV	0.43		0.64		0.73			



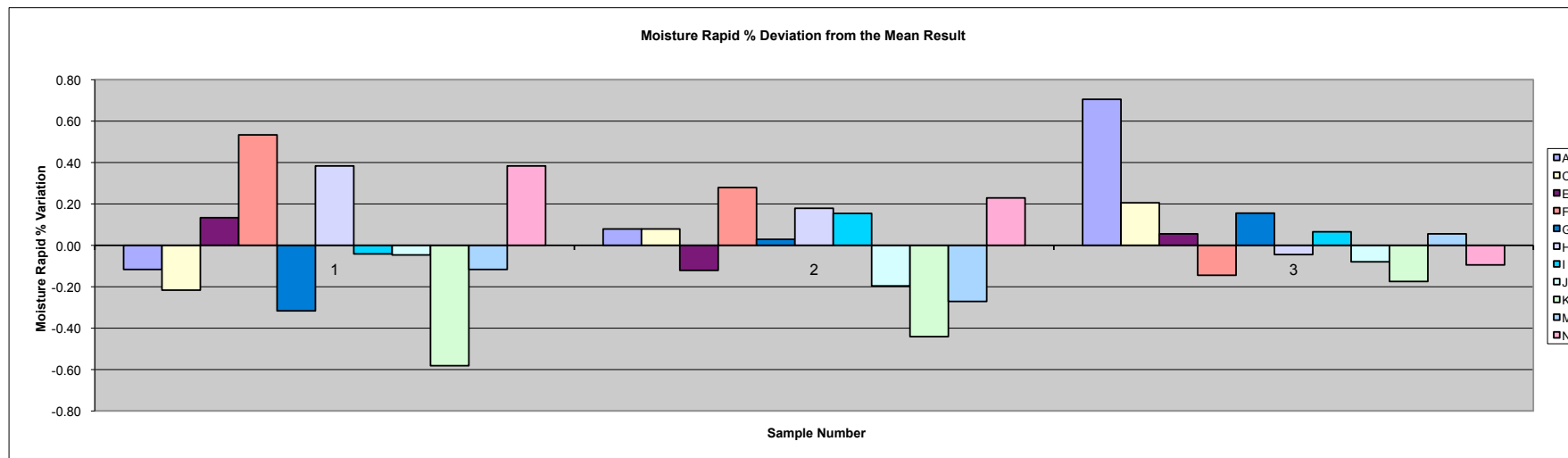
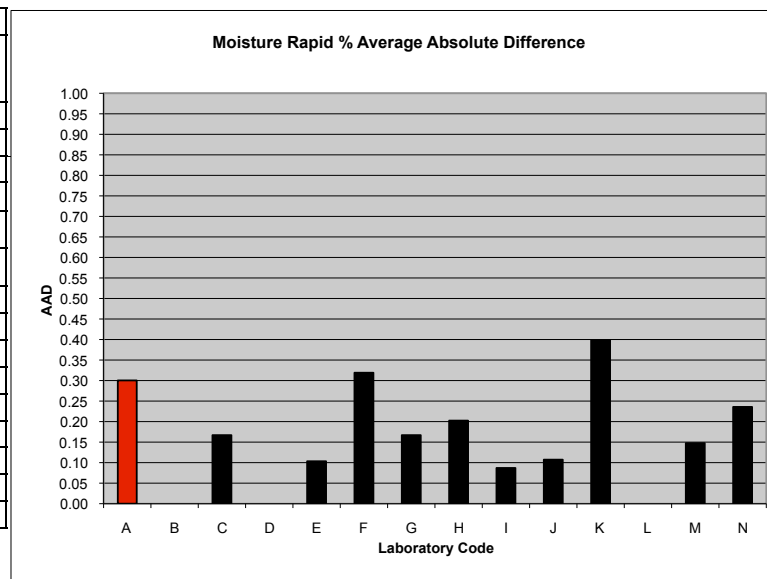
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	5.51	0.01	6.33	-0.01	6.39	-0.05	-0.02	0.02
C	5.55	0.05	6.45	0.12	6.55	0.11	0.09	0.09
D	5.20	-0.30	6.30	-0.03	6.45	0.01	-0.11	0.12
E	5.56	0.06	5.98	-0.36	6.73	0.29	0.00	0.23
F	5.75	0.25	6.47	0.14	6.35	-0.09	0.10	0.16
G	5.44	-0.07	6.29	-0.04	6.45	0.01	-0.03	0.04
H	5.50	0.00	6.35	0.02	6.40	-0.04	-0.01	0.02
I	5.55	0.04	6.44	0.11	6.59	0.15	0.10	0.10
J	5.49	-0.01	6.22	-0.11	6.45	0.01	-0.04	0.05
K	5.32	-0.18	6.11	-0.22	6.20	-0.24	-0.22	0.22
L	5.50	0.00	6.32	-0.02	6.52	0.08	0.02	0.03
M								
N	5.60	0.10	6.40	0.07	6.50	0.06	0.08	0.08
MEAN	5.50		6.33		6.44			0.10
STDEV	0.08		0.11		0.11			



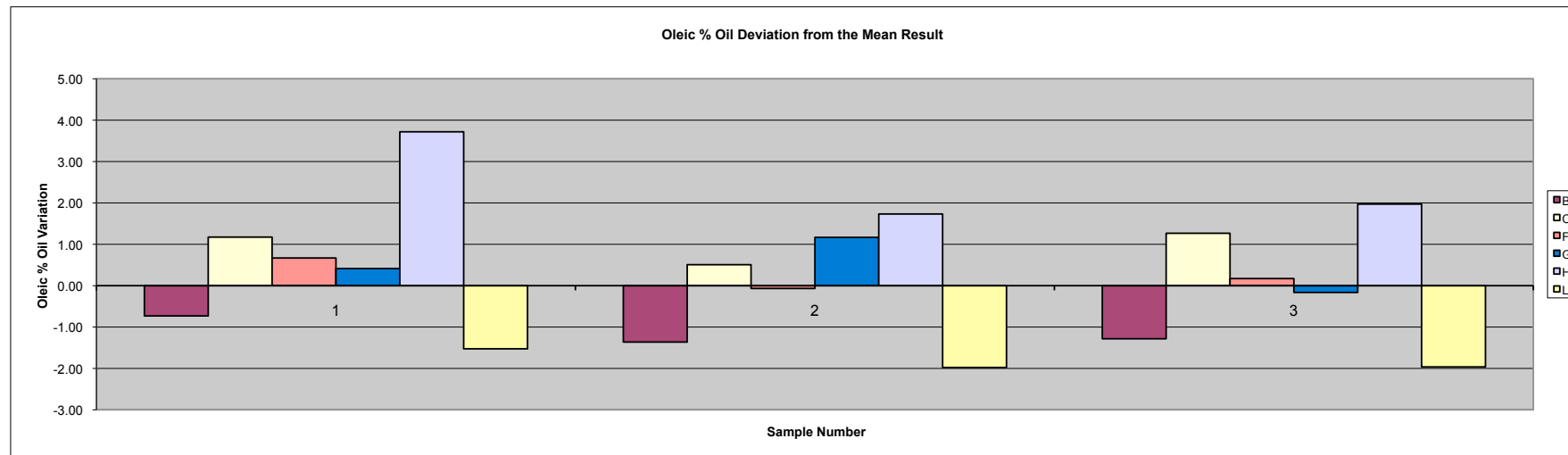
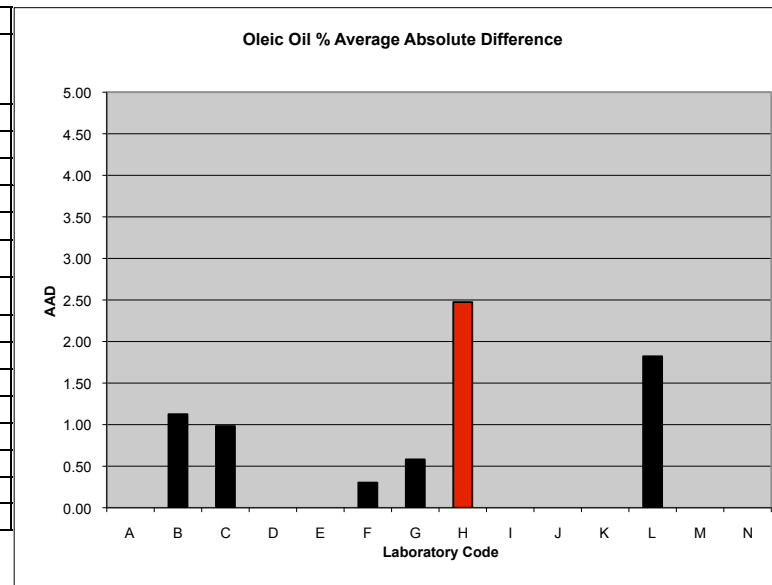
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	5.20	-0.12	6.10	0.08	7.30	0.71	0.22	0.30
B								
C	5.10	-0.22	6.10	0.08	6.80	0.21	0.02	0.17
D								
E	5.45	0.13	5.90	-0.12	6.65	0.06	0.02	0.10
F	5.85	0.53	6.30	0.28	6.45	-0.14	0.22	0.32
G	5.00	-0.32	6.05	0.03	6.75	0.16	-0.04	0.17
H	5.70	0.38	6.20	0.18	6.55	-0.04	0.17	0.20
I	5.28	-0.04	6.18	0.15	6.66	0.07	0.06	0.09
J	5.27	-0.05	5.83	-0.20	6.52	-0.08	-0.11	0.11
K	4.74	-0.58	5.58	-0.44	6.42	-0.17	-0.40	0.40
L								
M	5.20	-0.12	5.75	-0.27	6.65	0.06	-0.11	0.15
N	5.70	0.38	6.25	0.23	6.50	-0.09	0.17	0.24
MEAN	5.32		6.02		6.59			0.20
STDEV	0.33		0.23		0.13			



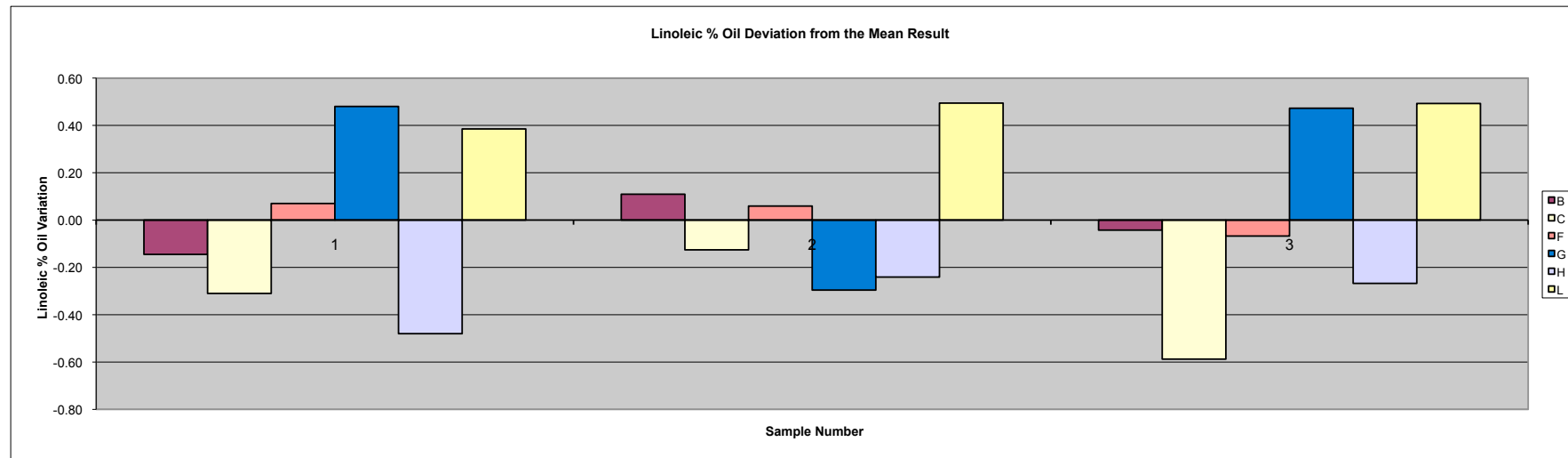
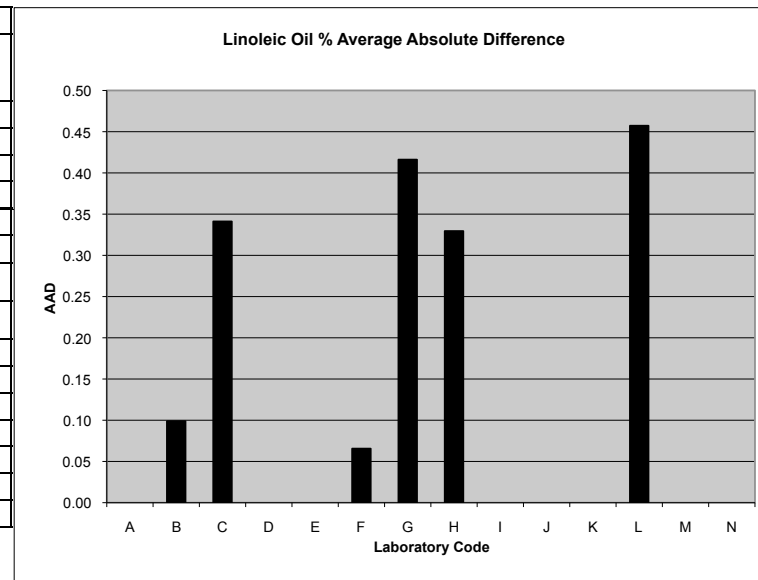
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	57.00	-0.73	63.11	-1.36	62.65	-1.28	-1.13	1.13
C	58.91	1.17	64.98	0.51	65.20	1.27	0.98	0.98
D								
E								
F	58.40	0.67	64.40	-0.07	64.10	0.17	0.26	0.30
G	58.15	0.41	65.64	1.17	63.77	-0.16	0.47	0.58
H	61.45	3.72	66.20	1.73	65.90	1.97	2.47	2.47
I								
J								
K								
L	56.21	-1.53	62.49	-1.98	61.97	-1.96	-1.82	1.82
M								
N								
MEAN	57.73		64.47		63.93			1.21
STDEV	1.10		1.44		1.49			



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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	21.39	-0.15	18.35	0.11	18.93	-0.04	-0.03	0.10
C	21.22	-0.31	18.12	-0.13	18.38	-0.59	-0.34	0.34
D								
E								
F	21.60	0.07	18.30	0.06	18.90	-0.07	0.02	0.07
G	22.01	0.48	17.95	-0.30	19.44	0.47	0.22	0.42
H	21.05	-0.48	18.00	-0.24	18.70	-0.27	-0.33	0.33
I								
J								
K								
L	21.92	0.38	18.74	0.49	19.46	0.49	0.46	0.46
M								
N								
MEAN	21.53		18.24		18.97			0.28
STDEV	0.38		0.29		0.42			



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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	0.18	-0.39	0.09	-0.15	0.66	-0.02	-0.18	0.18
C	0.38	-0.19	0.27	0.03	0.44	-0.24	-0.13	0.15
D								
E	1.13	0.56	0.37	0.13	1.15	0.47	0.39	0.39
F	0.75	0.18	0.42	0.18	0.92	0.25	0.20	0.20
G	0.38	-0.19	0.23	-0.01	0.79	0.12	-0.03	0.11
H	0.17	-0.39	0.16	-0.08	0.56	-0.11	-0.19	0.19
I								
J								
K	0.16	-0.40	0.12	-0.12	0.66	-0.01	-0.18	0.18
L	1.38	0.81	0.26	0.02	0.69	0.01	0.28	0.28
M								
N								
MEAN	0.56		0.24		0.67			0.21
STDEV	0.47		0.11		0.16			

