



**2013 AOF Test Check Program
Monthly Report
Round 1
January 2013
01/01/2013 – 01/02/2013**

Result Receiving Dates

Lab Code	Date (DD-MM-YYYY)
A	10-01-2013
B	01-02-2013
C	04-02-2013
D	01-02-2013
E	16-01-2013
F	14-02-2013
G	25-01-2013
H	05-02-2013
I	14-01-2013
J	30-01-2013
K	21-01-2013
L	29-01-2013
M	31-01-2013
N	01-02-2013
O	17-01-2013

Discussion of Results

Test Weight

Sample 1 – One outlier was identified for Lab F with a 0.46 percent discrepancy from the upper (71.29%) quartile limit.

Sample 2 – Outliers were identified for Lab E and F. Lab E results were 1.94 of a percent discrepancy from the lower (66.04%) quartile limit. Lab F results were 0.38 of a percent discrepancy from the upper (71.28%) quartile limit.

Sample 3 – One outlier was identified for Lab F with a 1.34 percent discrepancy from the upper (67.71%) quartile limit.

Impurities

Sample 1 – One outlier was identified for Lab B with a 0.07 percent discrepancy from the upper (2.18%) quartile limit.

Sample 2 – One outlier was identified for Lab B with a 1.02 percent discrepancy from the upper (1.99%) quartile limit.

Sample 3 – No outliers were observed.



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Oil Rapid

Sample 1 – One outlier was identified for Lab **D** with a 3.56 of a percent discrepancy from the upper (39.95%) quartile limit.

Sample 2 – One outlier was identified for Lab **D** with a 3.94 of a percent discrepancy from the lower (39.95%) quartile limit.

Sample 3 – Two outliers were identified for Lab **D** and **N** where results were 1.98 and 0.58 of a percent discrepancy, respectively, from the upper (47.53%) quartile limit.

Oil Solvent Extraction (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.

FOSFA Extraction (AOCS Method Am 2-93)

No outliers were observed this round for the AOCS Method Am 2-93 FOSFA extraction.

Moisture Oven

Sample 1 – One outlier was identified for Lab **D** with a 2.79 of a percent discrepancy from the lower (8.09%) quartile limit.

Sample 2 – Outliers were identified for Lab **D** and **E**. Lab D results were 1.76 of a percent discrepancy from the lower (6.66%) quartile limit. Lab E results were 0.26 of a percent discrepancy from the upper (7.64%) quartile limit.

Sample 3 – One outlier was identified for Lab **D** with a 0.17 of a percent discrepancy from the lower (5.13%) quartile limit.

Moisture Rapid

Sample 1 – One outlier was identified for Lab **F** with a 0.27 of a percent discrepancy from the upper (9.63%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – No outliers were observed.



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Oleic Oil

Sample 1 – One outlier was identified for Lab B with a 0.84 of a percent discrepancy from the lower (66.94%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – Outliers were identified for Lab B and H. Lab B results were 0.90 of a percent discrepancy from the lower (63.35%) quartile limit. Lab H results were 2.68 of a percent discrepancy from the upper (66.43%) quartile limit.

Linoleic Oil

Sample 1 – One outlier was identified for Lab B with a 0.12 of a percent discrepancy from the upper (15.15%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab B with a 0.05 of a percent discrepancy from the upper (18.52%) quartile limit.

Free Fatty Acid

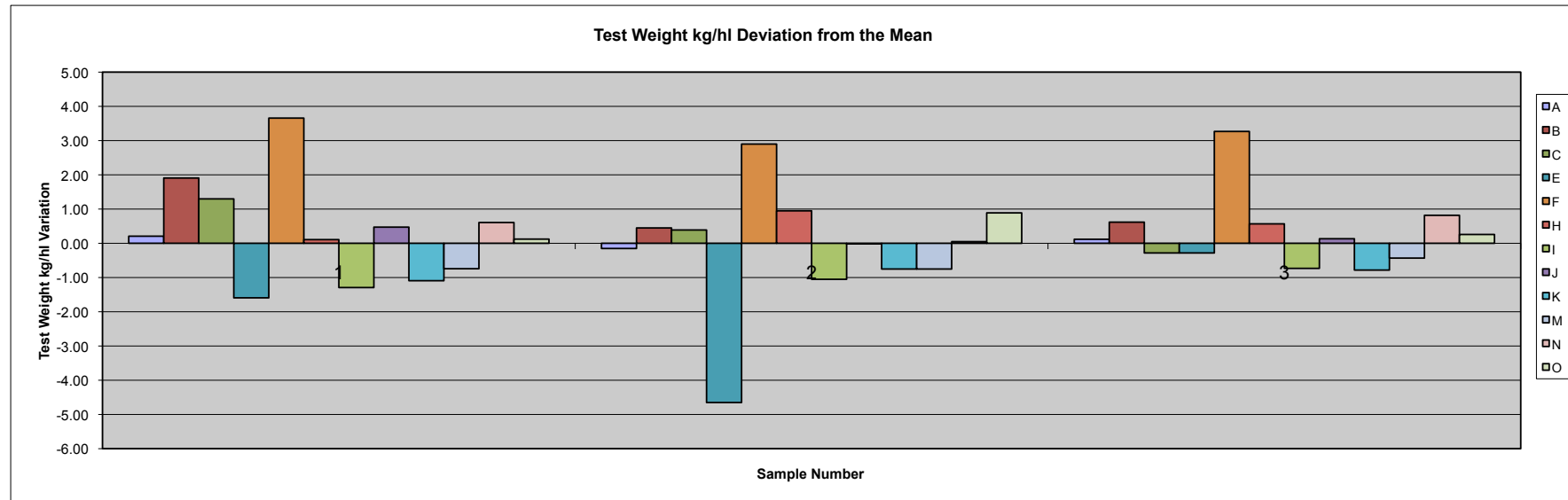
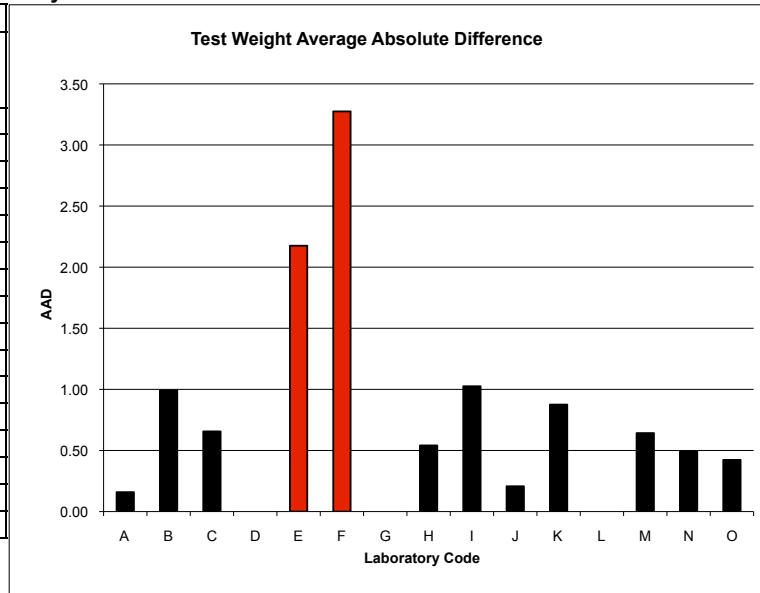
Sample 1 – No outliers were observed.

Sample 2 – One outlier was identified for Lab E with a 0.36 of a percent discrepancy from the upper (0.64%) quartile limit.

Sample 3 – One outlier was identified for Lab E with a 0.01 of a percent discrepancy from the upper (0.39%) quartile limit.

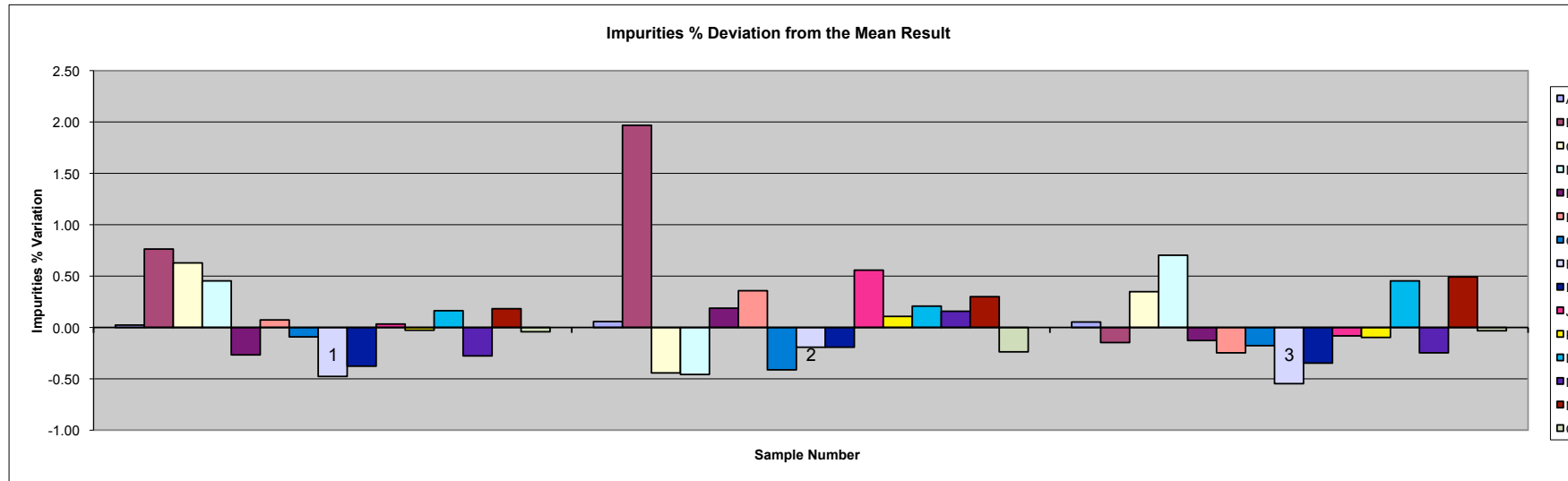
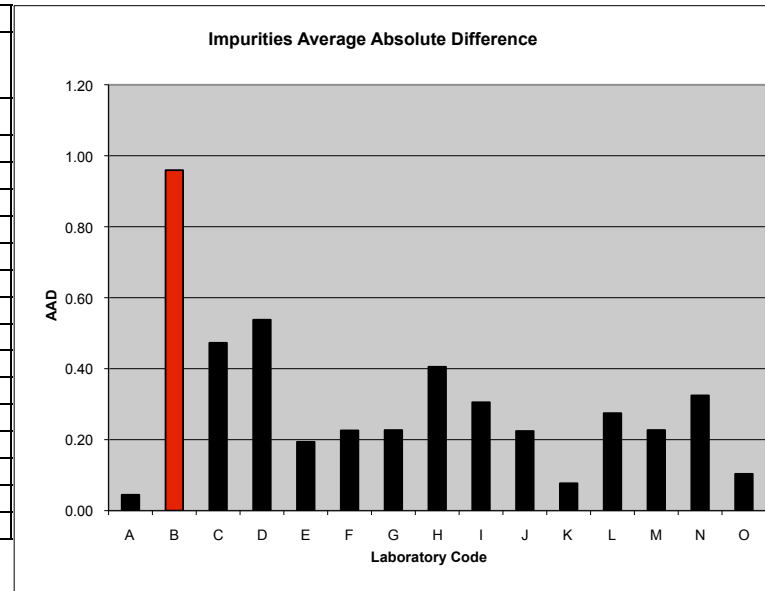
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	68.30	0.21	68.60	-0.15	65.90	0.12	0.06	0.16
B	70.00	1.91	69.20	0.45	66.40	0.62	0.99	0.99
C	69.39	1.30	69.14	0.39	65.50	-0.28	0.47	0.66
D								
E	66.50	-1.59	64.10	-4.65	65.50	-0.28	-2.18	2.18
F	71.75	3.66	71.65	2.90	69.05	3.27	3.27	3.27
G								
H	68.20	0.11	69.70	0.95	66.35	0.57	0.54	0.54
I	66.80	-1.29	67.70	-1.05	65.05	-0.73	-1.03	1.03
J	68.57	0.47	68.74	-0.02	65.92	0.13	0.20	0.21
K	67.00	-1.09	68.00	-0.75	65.00	-0.78	-0.88	0.88
L								
M	67.35	-0.74	68.00	-0.75	65.35	-0.43	-0.64	0.64
N	68.70	0.61	68.80	0.05	66.60	0.82	0.49	0.49
O	68.22	0.12	69.64	0.89	66.04	0.26	0.42	0.42
MEAN	68.09		68.75		65.78			1.00
STDEV	1.09		0.69		0.54			



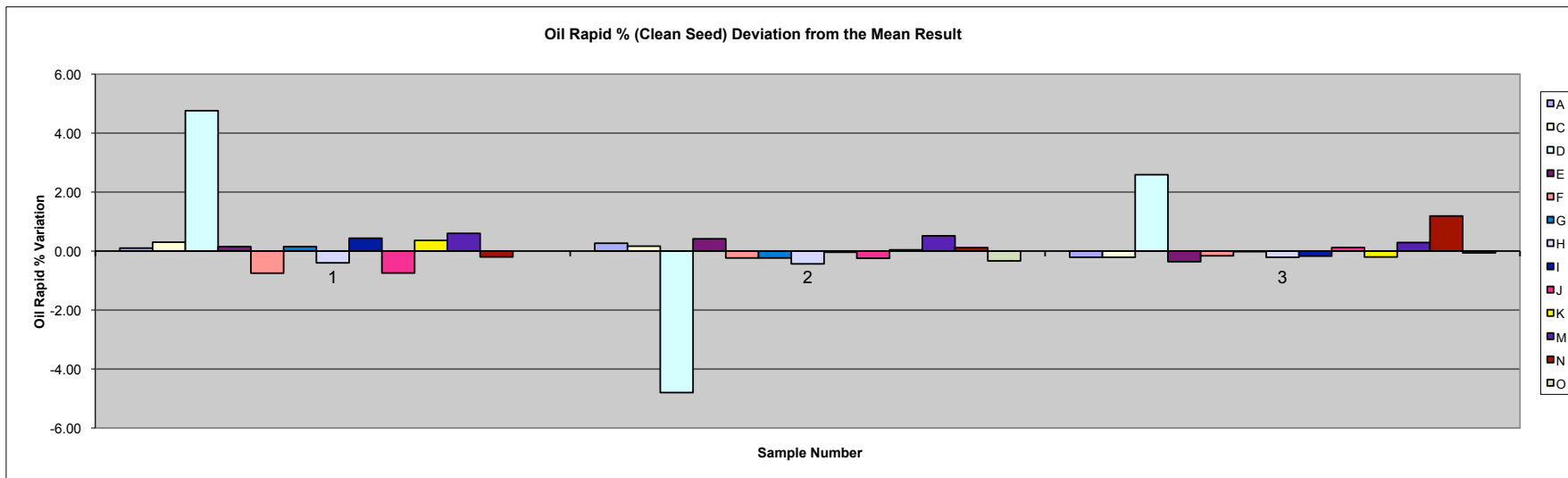
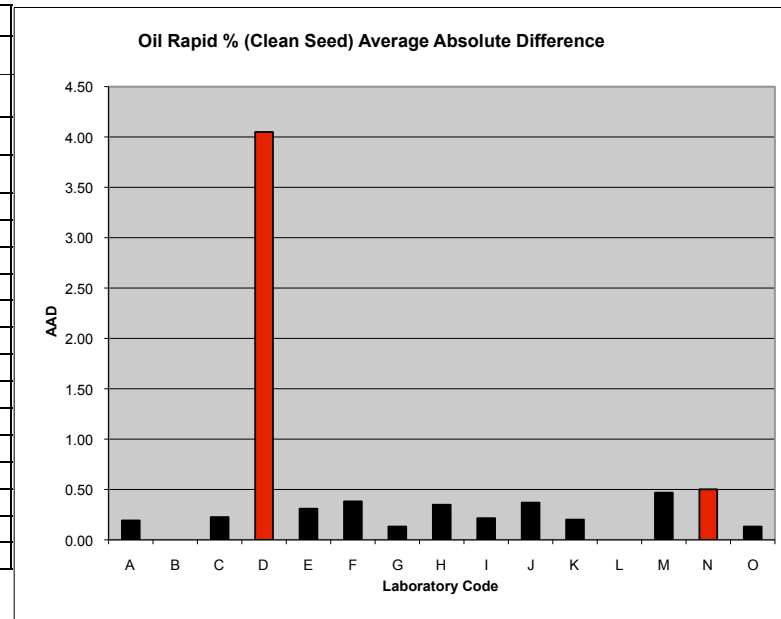
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	1.50	0.02	1.10	0.06	0.90	0.05	0.04	0.04
B	2.24	0.76	3.01	1.97	0.70	-0.15	0.86	0.96
C	2.11	0.63	0.60	-0.44	1.20	0.35	0.18	0.47
D	1.93	0.45	0.59	-0.46	1.55	0.70	0.23	0.54
E	1.21	-0.27	1.23	0.19	0.72	-0.13	-0.07	0.19
F	1.55	0.07	1.40	0.36	0.60	-0.25	0.06	0.23
G	1.39	-0.09	0.63	-0.41	0.67	-0.18	-0.23	0.23
H	1.00	-0.48	0.85	-0.19	0.30	-0.55	-0.41	0.41
I	1.10	-0.38	0.85	-0.19	0.50	-0.35	-0.31	0.31
J	1.51	0.03	1.60	0.56	0.77	-0.08	0.17	0.22
K	1.45	-0.03	1.15	0.11	0.75	-0.10	-0.01	0.08
L	1.64	0.16	1.25	0.21	1.30	0.45	0.27	0.27
M	1.20	-0.28	1.20	0.16	0.60	-0.25	-0.12	0.23
N	1.66	0.18	1.34	0.30	1.34	0.49	0.32	0.32
O	1.44	-0.04	0.81	-0.24	0.82	-0.03	-0.10	0.10
MEAN	1.48		1.04		0.85			0.32
STDEV	0.30		0.32		0.35			



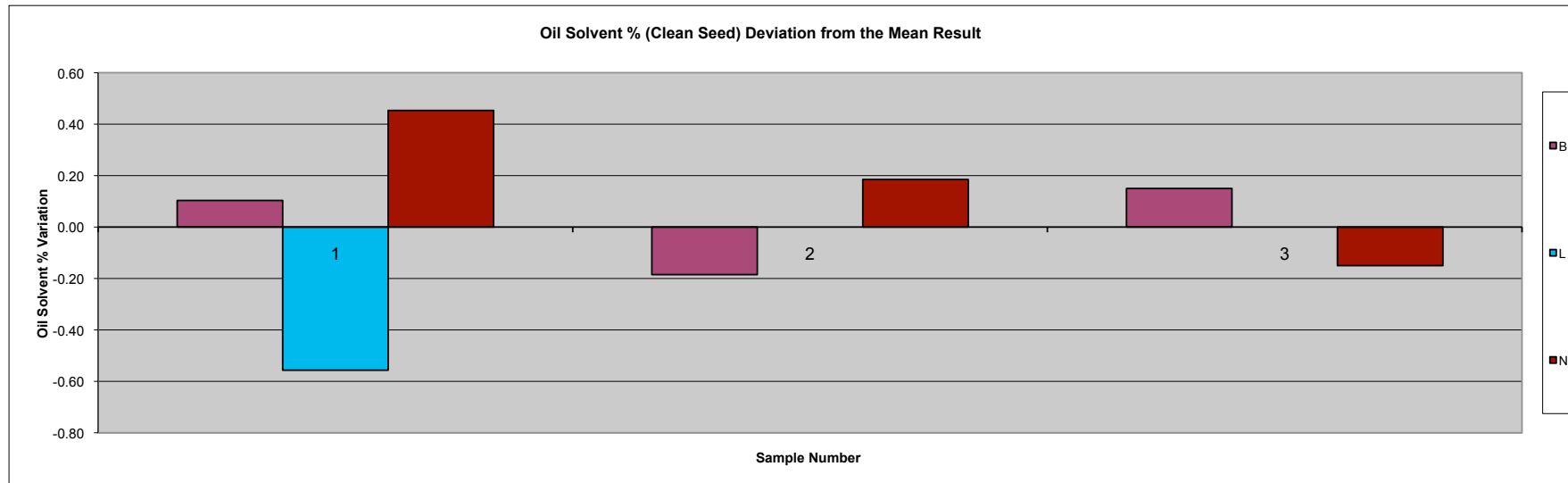
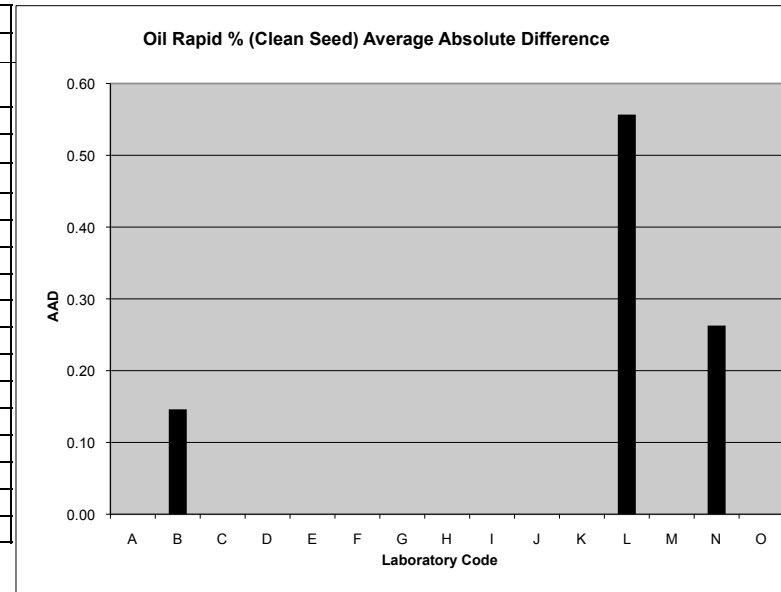
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	38.85	0.10	44.05	0.27	46.70	-0.21	0.05	0.19
B								
C	39.05	0.30	43.95	0.17	46.70	-0.21	0.09	0.23
D	43.51	4.76	38.99	-4.80	49.50	2.59	0.85	4.05
E	38.90	0.15	44.20	0.42	46.55	-0.36	0.07	0.31
F	38.00	-0.75	43.55	-0.23	46.75	-0.16	-0.38	0.38
G	38.90	0.15	43.55	-0.23	46.90	-0.01	-0.03	0.13
H	38.35	-0.40	43.35	-0.43	46.70	-0.21	-0.35	0.35
I	39.19	0.44	43.75	-0.04	46.74	-0.17	0.08	0.22
J	38.01	-0.74	43.54	-0.24	47.03	0.12	-0.29	0.37
K	39.11	0.36	43.83	0.04	46.71	-0.20	0.07	0.20
L								
M	39.35	0.60	44.30	0.52	47.20	0.29	0.47	0.47
N	38.55	-0.20	43.90	0.12	48.10	1.19	0.37	0.50
O	38.75	0.00	43.45	-0.33	46.85	-0.06	-0.13	0.13
MEAN	38.75		43.78		46.91			0.62
STDEV	0.44		0.30		0.41			



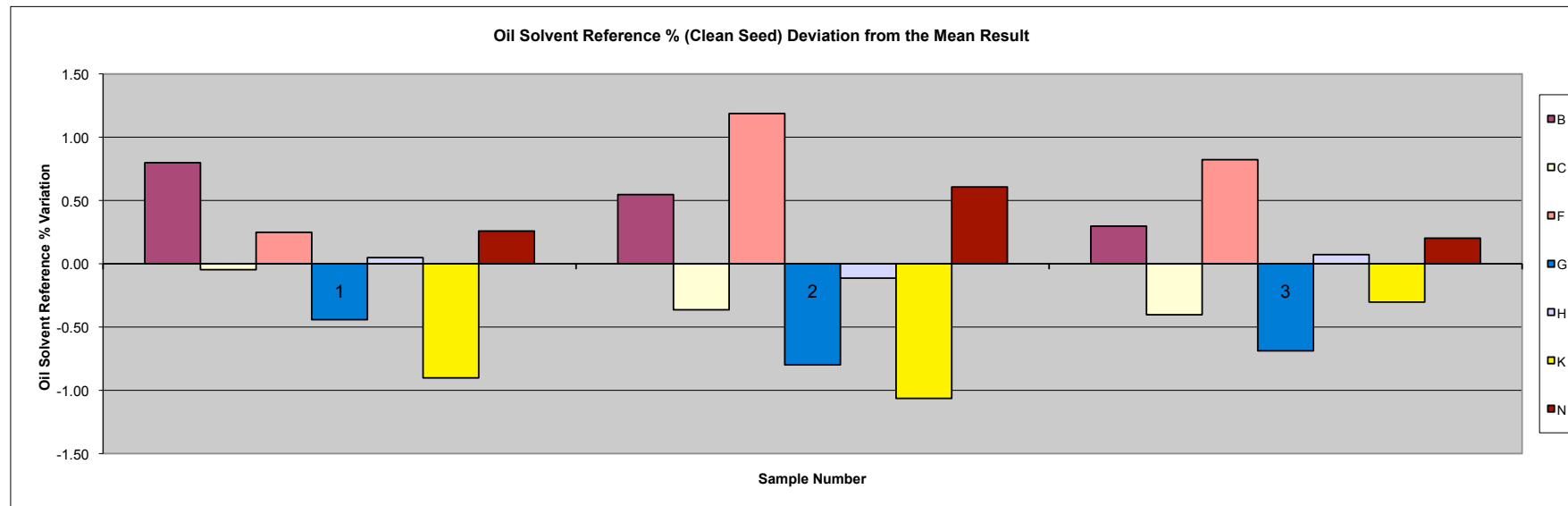
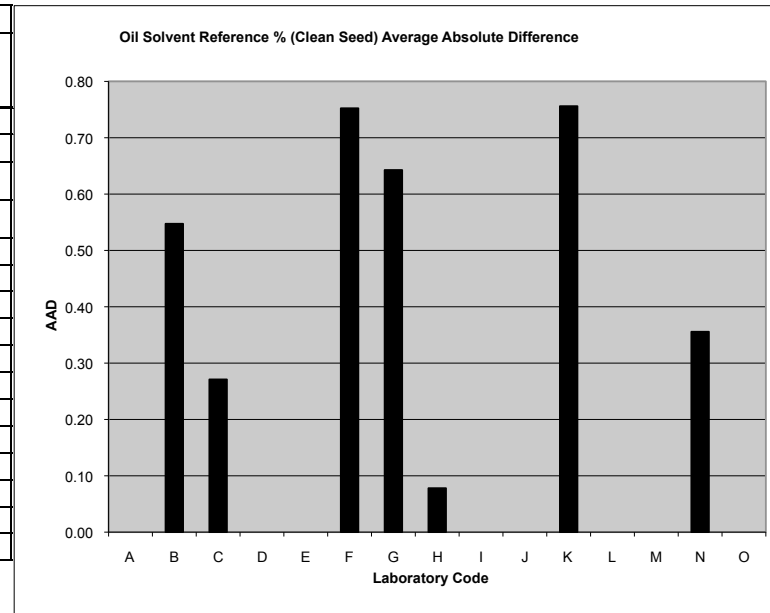
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Oil Solvent % (Clean Seed) - ISO Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	38.81	0.10	44.70	-0.19	47.65	0.15	0.02	0.15
C								
D								
E								
F								
G								
H								
I								
J								
K								
L	38.15	-0.56					-0.56	0.56
M								
N	39.16	0.45	45.07	0.18	47.35	-0.15	0.16	0.26
O								
MEAN	38.70		44.89		47.50			0.32
STDEV	0.51		0.26		0.21			



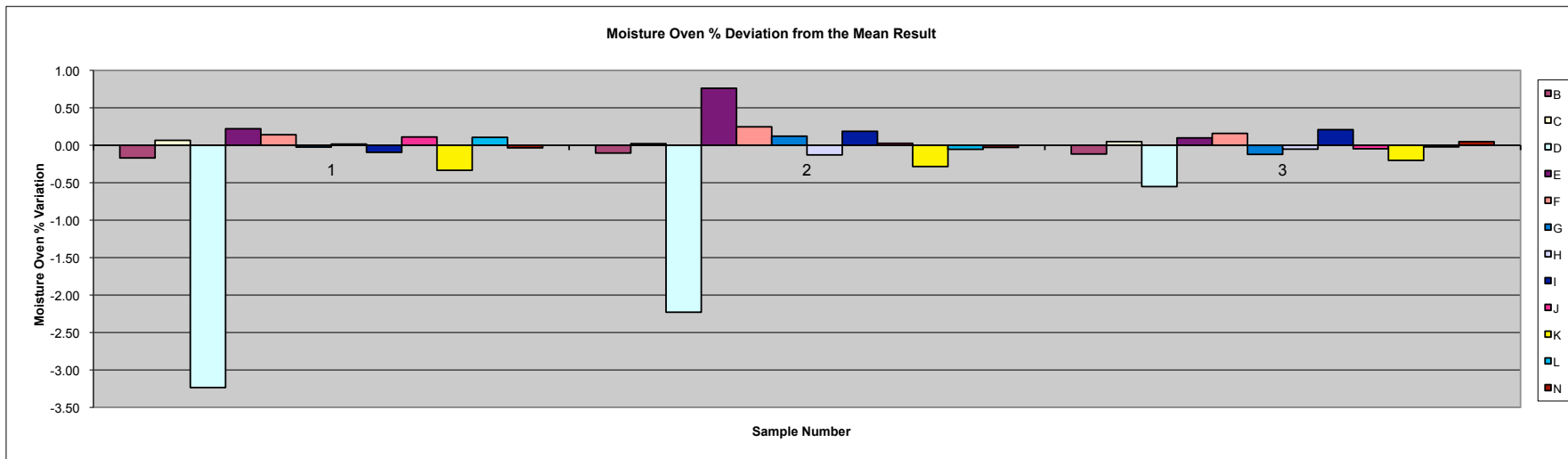
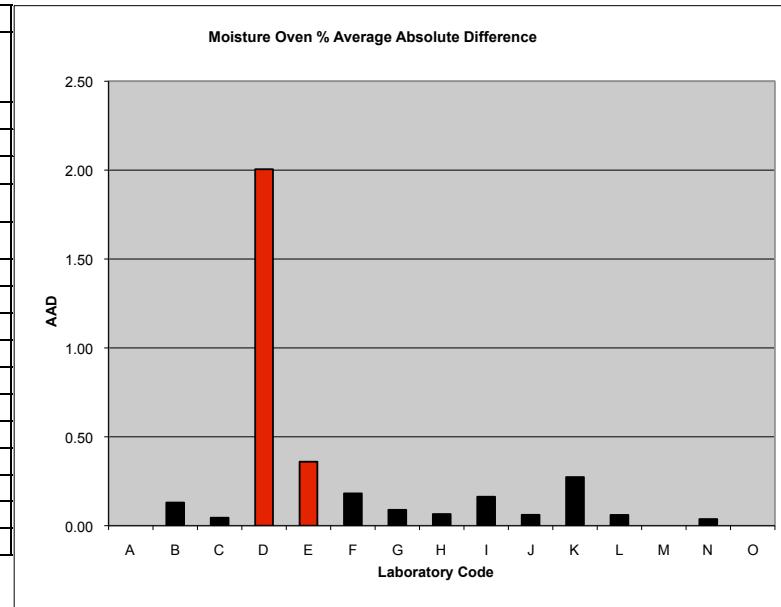
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FOSFA % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	39.50	0.80	44.41	0.55	47.48	0.30	0.55	0.55
C	38.66	-0.05	43.50	-0.36	46.78	-0.40	-0.27	0.27
D								
E								
F	38.95	0.25	45.05	1.19	48.00	0.82	0.75	0.75
G	38.26	-0.44	43.07	-0.80	46.49	-0.69	-0.64	0.64
H	38.75	0.05	43.75	-0.11	47.25	0.07	0.00	0.08
I								
J								
K	37.80	-0.90	42.80	-1.06	46.88	-0.30	-0.76	0.76
L								
M								
N	38.96	0.26	44.47	0.61	47.38	0.20	0.36	0.36
O								
MEAN	38.70		43.86		47.18			0.49
STDEV	0.54		0.82		0.51			



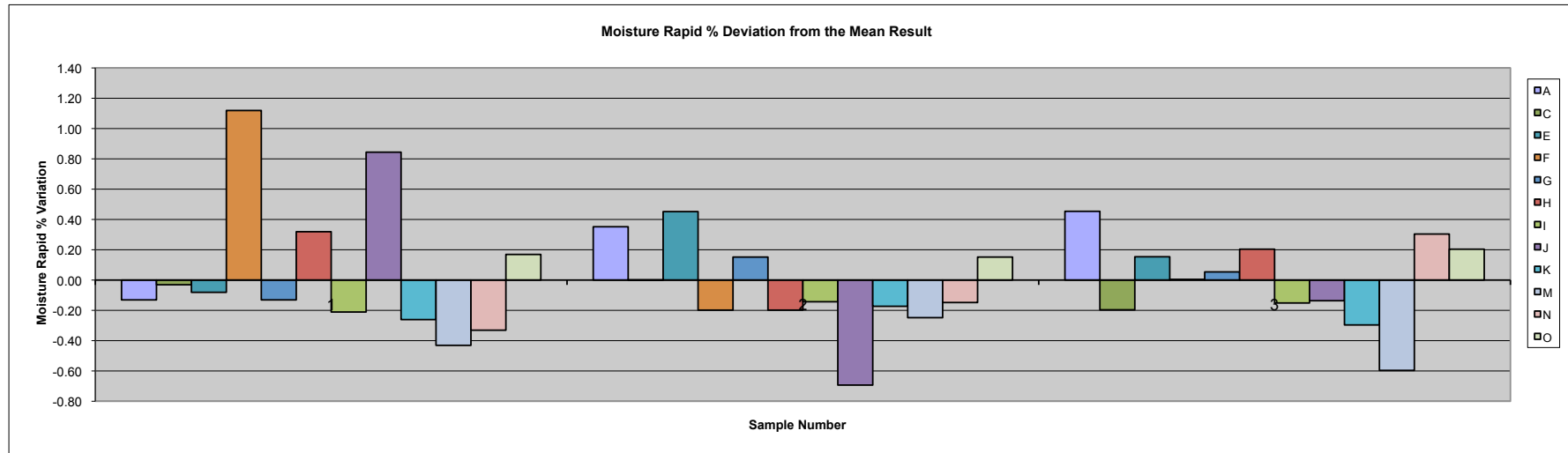
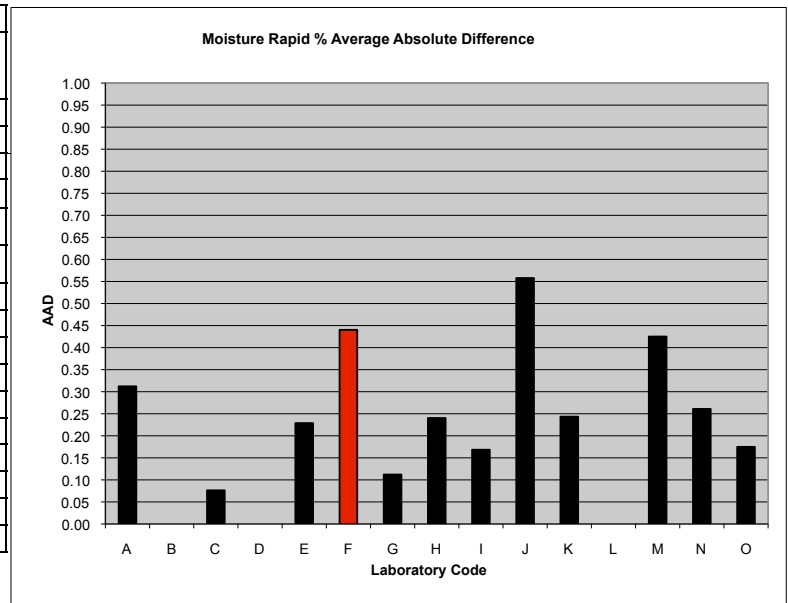
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	8.37	-0.17	7.03	-0.10	5.39	-0.12	-0.13	0.13
C	8.60	0.07	7.15	0.02	5.55	0.05	0.04	0.04
D	5.30	-3.23	4.90	-2.23	4.95	-0.55	-2.01	2.01
E	8.76	0.22	7.89	0.76	5.60	0.10	0.36	0.36
F	8.68	0.14	7.38	0.25	5.66	0.16	0.18	0.18
G	8.51	-0.02	7.25	0.12	5.38	-0.12	-0.01	0.09
H	8.55	0.02	7.00	-0.13	5.45	-0.05	-0.06	0.07
I	8.44	-0.09	7.32	0.19	5.71	0.21	0.10	0.16
J	8.65	0.11	7.16	0.03	5.46	-0.05	0.03	0.06
K	8.20	-0.33	6.85	-0.28	5.30	-0.20	-0.27	0.27
L	8.64	0.11	7.08	-0.05	5.48	-0.02	0.01	0.06
M								
N	8.50	-0.03	7.10	-0.03	5.55	0.05	-0.01	0.04
O								
MEAN	8.53		7.13		5.50			0.29
STDEV	0.16		0.16		0.13			



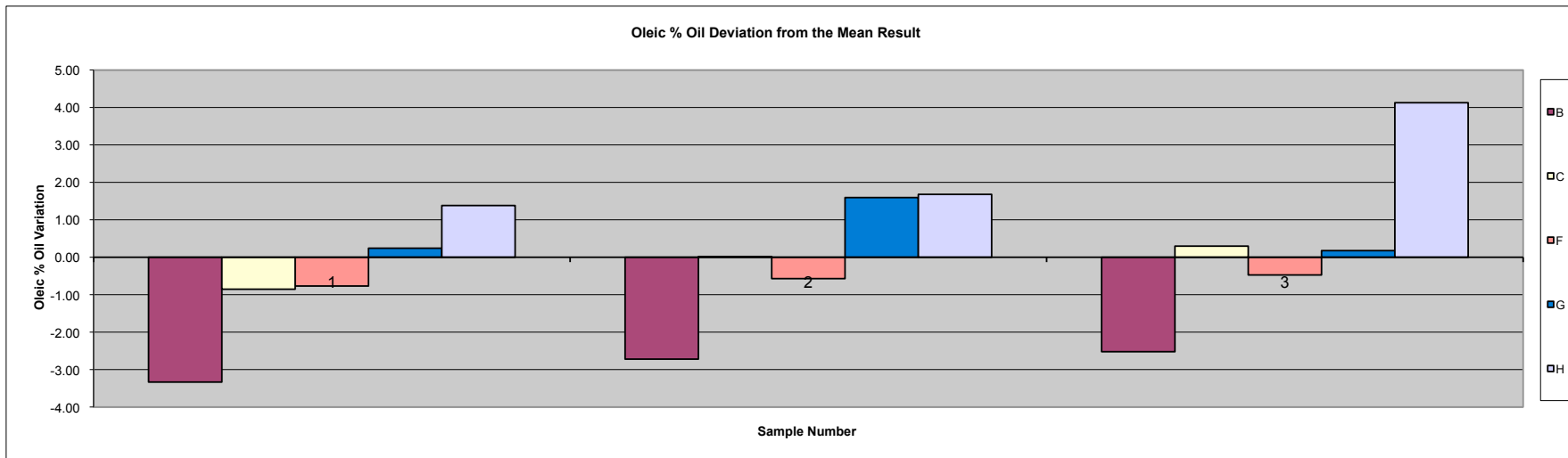
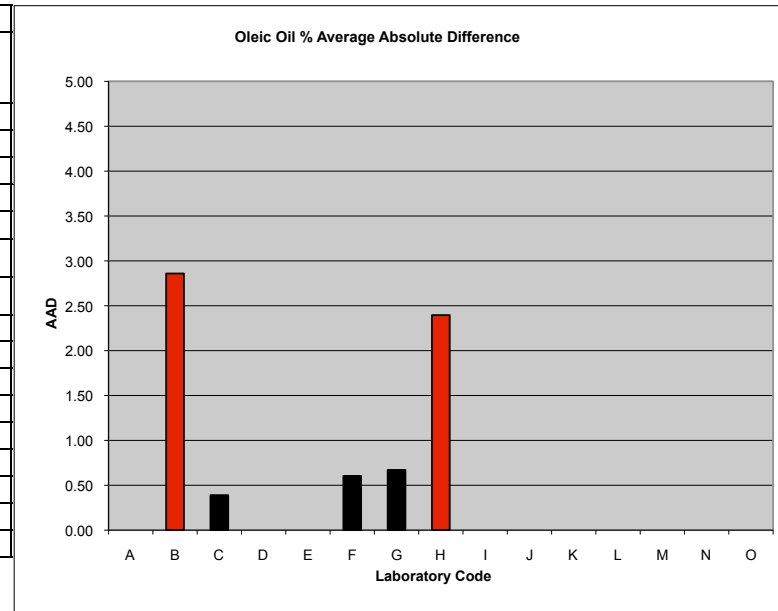
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	8.65	-0.13	7.85	0.35	5.95	0.45	0.22	0.31
B								
C	8.75	-0.03	7.50	0.00	5.30	-0.20	-0.08	0.08
D								
E	8.70	-0.08	7.95	0.45	5.65	0.15	0.17	0.23
F	9.90	1.12	7.30	-0.20	5.50	0.00	0.31	0.44
G	8.65	-0.13	7.65	0.15	5.55	0.05	0.02	0.11
H	9.10	0.32	7.30	-0.20	5.70	0.20	0.11	0.24
I	8.57	-0.21	7.36	-0.14	5.35	-0.15	-0.17	0.17
J	9.63	0.84	6.81	-0.69	5.36	-0.14	0.00	0.56
K	8.52	-0.26	7.33	-0.17	5.20	-0.30	-0.24	0.24
L								
M	8.35	-0.43	7.25	-0.25	4.90	-0.60	-0.43	0.43
N	8.45	-0.33	7.35	-0.15	5.80	0.30	-0.06	0.26
O	8.95	0.17	7.65	0.15	5.70	0.20	0.17	0.17
MEAN	8.78		7.50		5.50			0.28
STDEV	0.43		0.24		0.29			



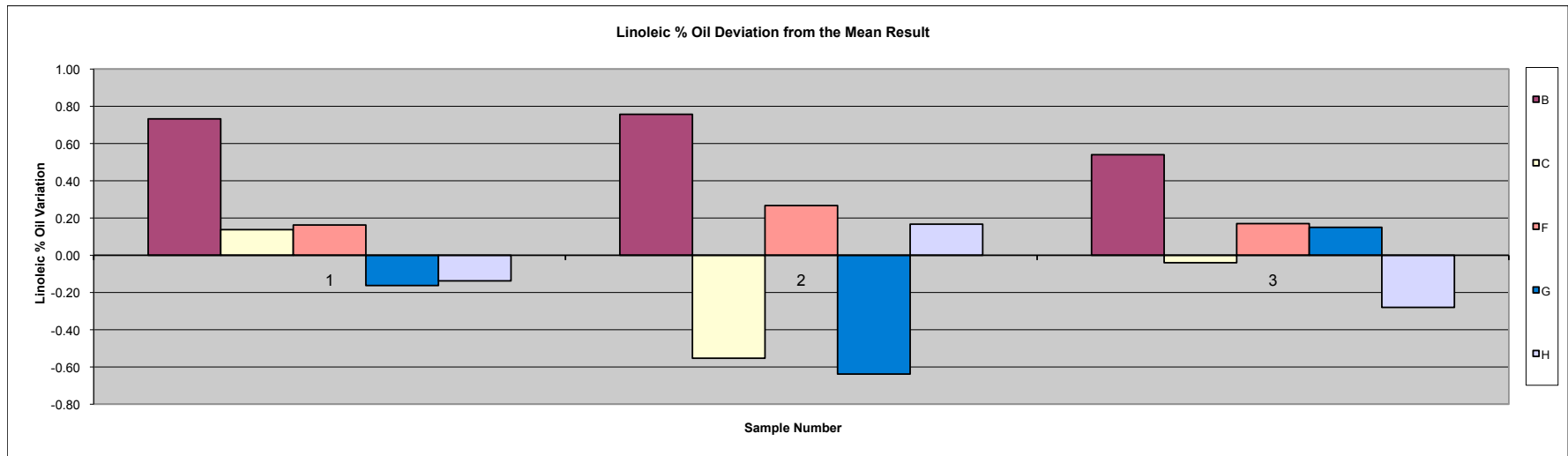
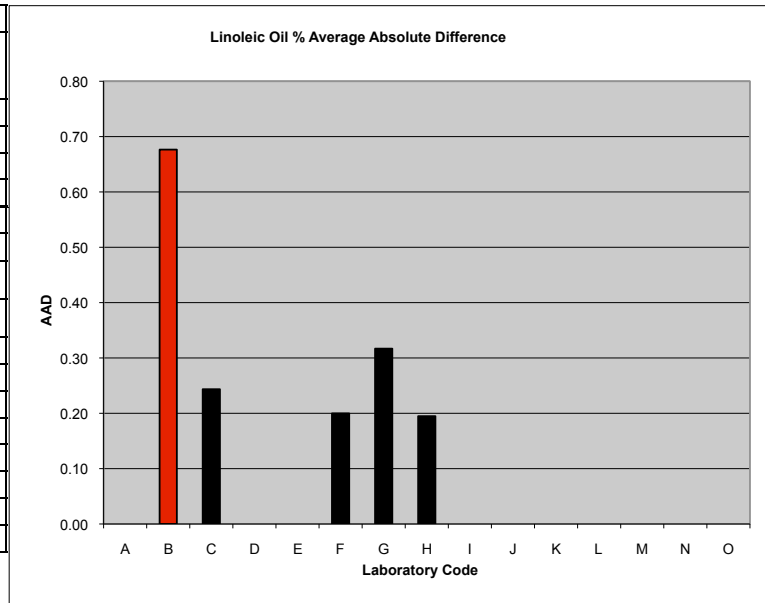
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	66.09	-3.33	58.35	-2.72	62.45	-2.52	-2.86	2.86
C	68.57	-0.85	61.09	0.02	65.27	0.30	-0.18	0.39
D								
E								
F	68.65	-0.77	60.50	-0.57	64.50	-0.47	-0.60	0.60
G	69.66	0.24	62.67	1.59	65.15	0.18	0.67	0.67
H	70.80	1.38	62.75	1.68	69.10	4.13	2.40	2.40
I								
J								
K								
L								
M								
N								
O								
MEAN	69.42		61.07		64.97			1.38
STDEV	1.05		1.81		0.41			



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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	15.27	0.73	23.24	0.76	18.57	0.54	0.68	0.68
C	14.68	0.14	21.93	-0.55	17.99	-0.04	-0.15	0.24
D								
E								
F	14.70	0.16	22.75	0.27	18.20	0.17	0.20	0.20
G	14.38	-0.16	21.85	-0.64	18.18	0.15	-0.22	0.32
H	14.40	-0.14	22.65	0.17	17.75	-0.28	-0.08	0.19
I								
J								
K								
L								
M								
N								
O								
MEAN	14.54		22.48		18.03			0.33
STDEV	0.17		0.59		0.21			



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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	-0.18	0.25	-0.07	0.09	-0.08	-0.11	0.11
C	0.20	-0.16	0.23	-0.09	0.14	-0.03	-0.09	0.09
D								
E	0.73	0.38	1.00	0.68	0.39	0.22	0.43	0.43
F								
G	0.33	-0.03	0.39	0.07	0.18	0.01	0.02	0.04
H	0.42	0.06	0.43	0.11	0.26	0.09	0.09	0.09
I								
J								
K	0.20	-0.16	0.26	-0.06	0.13	-0.04	-0.08	0.08
L	0.43	0.08	0.36	0.04	0.21	0.04	0.05	0.05
M								
N								
O								
MEAN	0.36		0.32		0.17			0.13
STDEV	0.20		0.08		0.06			

