2013 AOF Test Check Program
Monthly Report
Round 2
February 2013

01/02/2013 – 01/03/2013

Result Receival Dates

Lab Code	Date (DD-MM-YYYY)
A	08-02-2013
B	28-02-2013
C	12-03-2013
D	11-03-2013
E	14-02-2013
F	01-03-2013
G	01-03-2013
H	01-03-2013
I	06-02-2013
J	14-02-2013
K	28-02-2013
L	-
M	28-02-2013
N	06-03-2013
O	15-02-2013

Discussion of Results

Test Weight

Sample 1 – One outlier was identified for Lab **B** with a percent discrepancy from the upper quartile limit (66.50%).

Sample 2 – No outliers were observed.

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 **B** with a 1.96 percent discrepancy from the upper quartile limit (3.32%).

Oil Rapid

Sample 1 – One outlier was identified for Lab D with a 0.92 of a percent discrepancy from the upper quartile limit (46.33%).

Sample 2 – Four outliers were identified for Lab C, D, H and O. Lab C and D results were 0.20 and 0.72 of a percent discrepancy, respectively, from the upper quartile limit (43.30%). Lab H and O results were 0.05 and 0.40 of a percent discrepancy, respectively, from the lower quartile limit (42.50)

Sample 3 – No outliers were observed.

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)

Sample 1 – One outlier was identified for Lab **H** with a 2.90 of a percent discrepancy from the lower quartile limit (43.55%).

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **H** with a 6.25 of a percent discrepancy from the upper quartile limit (39.50%).

Moisture Oven

Sample 1 – Outliers were identified for Lab **D** and **K**. Lab D results were 0.14 of a percent discrepancy from the upper quartile limit (5.76%). Lab K results were 0.06 of a percent discrepancy from the lower quartile limit (5.19%).

Sample 2 – Outliers were identified for Lab **D** and **E** where results were 0.26 and 0.17 of a percent discrepancy, respectively, from the upper quartile limit (4.65%).

Sample 3 – One outlier was identified for Lab **K** with a 0.02 of a percent discrepancy from the lower quartile limit (8.22%).

Moisture Rapid

Sample 1 – No outliers were observed.

Sample 2 – No outliers were observed.

Sample 3 – Outliers were identified for Lab **F** and **I** where results were 0.89 and 0.72 of a percent discrepancy, respectively, from the upper quartile limit (9.21%).

Oleic Oil

Sample 1 – One outlier was identified for Lab H with a 4.03 of a percent discrepancy from the upper quartile limit (63.57%).

Sample 2 – One outlier was identified for Lab H with a 1.47 of a percent discrepancy from the upper quartile limit (73.18%).

Sample 3 – No outliers were observed.

Linoleic Oil

Sample 1 – One outlier was identified for Lab **H** with a 2.00 of a percent discrepancy from the lower quartile limit (20.30%).

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **H** with a 5.06 of a percent discrepancy from the upper quartile limit (16.90%).

Free Fatty Acid

There were no outliers noted for this test.

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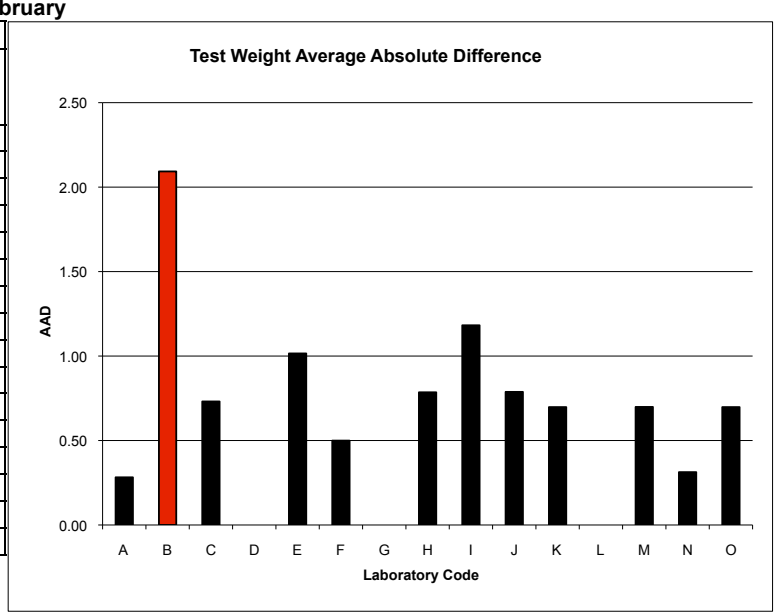
Round 2 Summary - February

Test Weight kg/hl								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	63.10	-0.53	67.20	-0.25	68.20	-0.07	-0.28	0.28
B	67.50	3.87	68.00	0.55	70.13	1.85	2.09	2.09
C	63.98	0.35	67.26	-0.19	69.93	1.65	0.61	0.73
D								
E	63.05	-0.58	66.30	-1.15	66.95	-1.32	-1.02	1.02
F	64.25	0.62	68.25	0.80	68.20	-0.07	0.45	0.50
G								
H	63.00	-0.63	68.35	0.90	69.10	0.83	0.37	0.79
I	61.95	-1.68	66.95	-0.50	66.90	-1.37	-1.18	1.18
J	64.33	0.70	68.13	0.68	69.26	0.98	0.79	0.79
K	65.00	1.37	67.00	-0.45	68.00	-0.27	0.22	0.70
L								
M	62.90	-0.73	67.10	-0.35	67.25	-1.02	-0.70	0.70
N	63.63	0.00	67.03	-0.42	67.76	-0.52	-0.31	0.31
O	64.70	1.07	67.81	0.36	67.61	-0.66	0.26	0.70
MEAN	63.63		67.45		68.27			0.83
STDEV	0.92		0.64		1.10			



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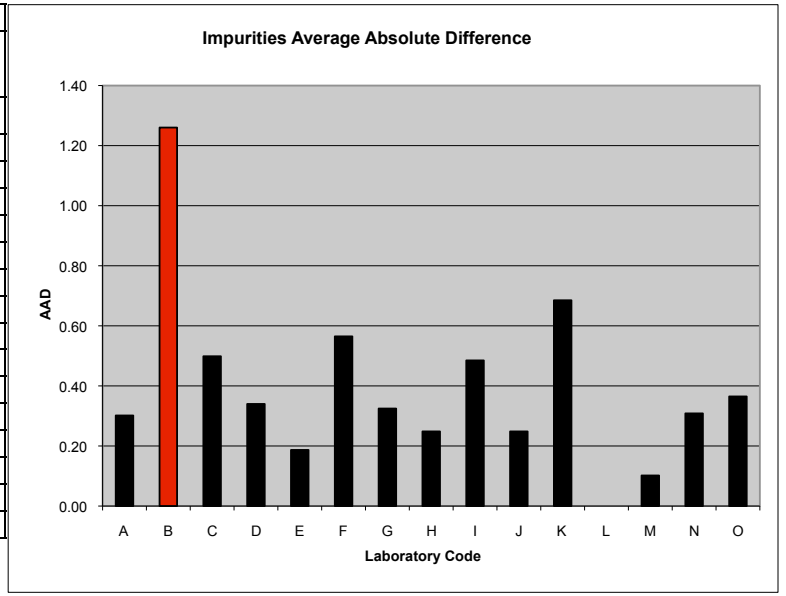
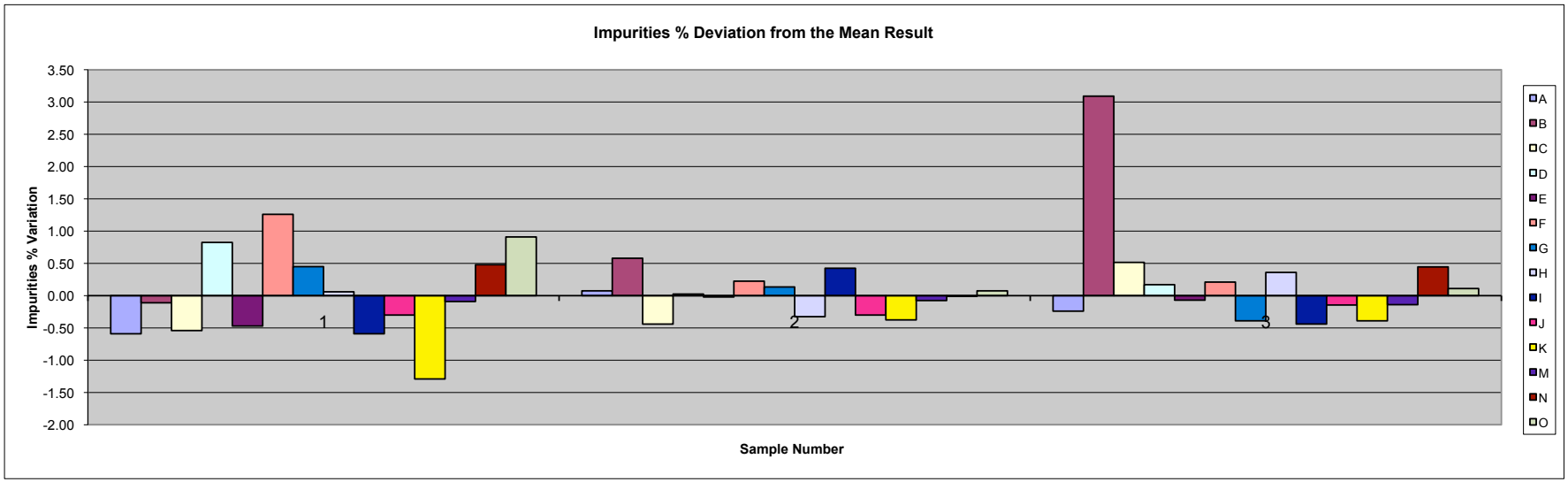
Impurities %								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	3.45	-0.59	1.05	0.07	1.95	-0.24	-0.25	0.30
B	3.93	-0.11	1.56	0.58	5.28	3.09	1.19	1.26
C	3.50	-0.54	0.54	-0.44	2.71	0.52	-0.16	0.50
D	4.87	0.82	1.00	0.02	2.36	0.17	0.34	0.34
E	3.57	-0.47	0.96	-0.02	2.12	-0.07	-0.19	0.19
F	5.30	1.26	1.20	0.22	2.40	0.21	0.56	0.56
G	4.49	0.45	1.11	0.13	1.80	-0.39	0.06	0.32
H	4.10	0.06	0.65	-0.33	2.55	0.36	0.03	0.25
I	3.45	-0.59	1.40	0.42	1.75	-0.44	-0.20	0.48
J	3.74	-0.30	0.68	-0.30	2.05	-0.14	-0.25	0.25
K	2.75	-1.29	0.60	-0.38	1.80	-0.39	-0.69	0.69
L								
M	3.95	-0.09	0.90	-0.08	2.05	-0.14	-0.10	0.10
N	4.52	0.48	0.98	0.00	2.64	0.45	0.31	0.31
O	4.95	0.91	1.05	0.07	2.30	0.11	0.36	0.36
MEAN	**4.04**		**0.98**		**2.19**			**0.43**
STDEV	**0.71**		**0.30**		**0.33**			





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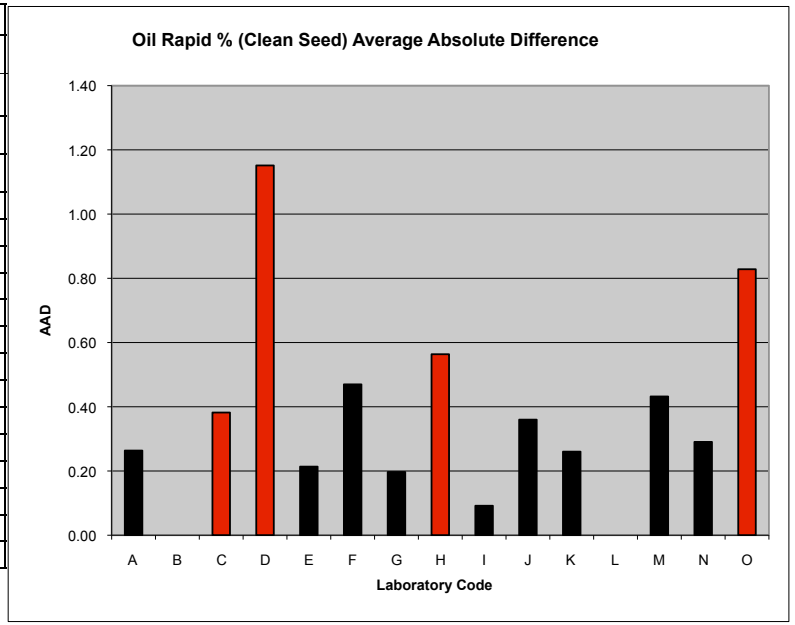
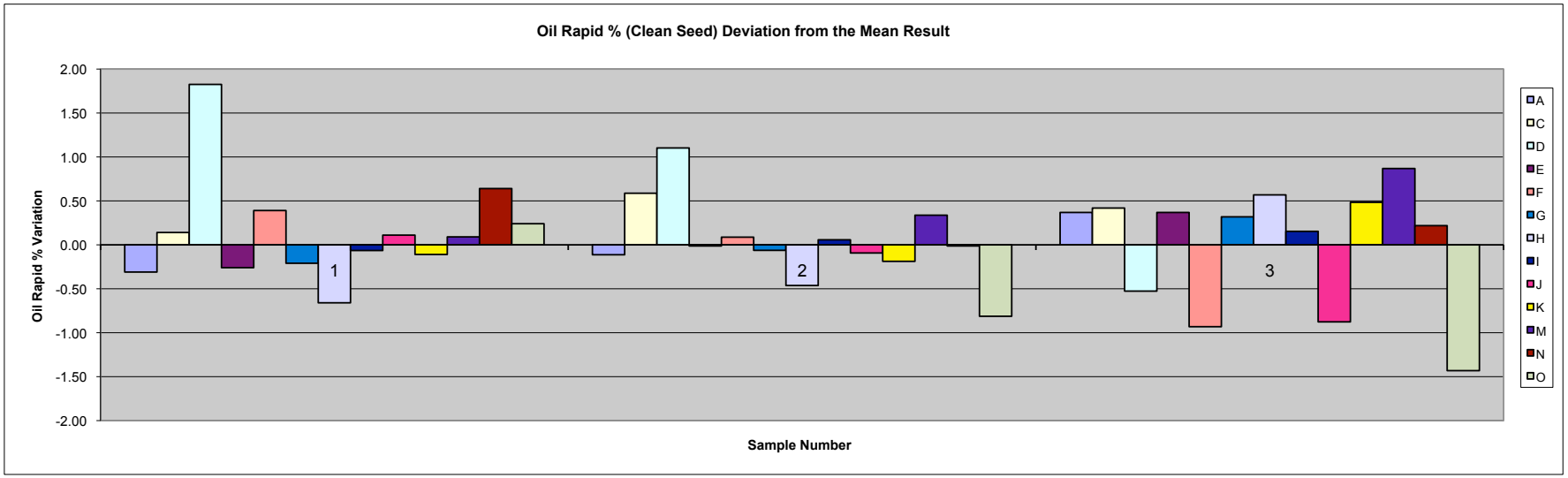
Oil Rapid % (Clean Seed) Deviation from the Mean								
	Sample 1		Sample 2		Sample 3			Average
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean	Mean of Differences	Absolute Difference
A	45.10	-0.31	42.80	-0.11	38.15	0.37	-0.02	0.26
B								
C	45.55	0.14	43.50	0.59	38.20	0.42	0.38	0.38
D	47.24	1.83	44.02	1.10	37.26	-0.53	0.80	1.15
E	45.15	-0.26	42.90	-0.01	38.15	0.37	0.03	0.21
F	45.80	0.39	43.00	0.09	36.85	-0.93	-0.15	0.47
G	45.20	-0.21	42.85	-0.06	38.10	0.32	0.02	0.20
H	44.75	-0.66	42.45	-0.46	38.35	0.57	-0.18	0.56
I	45.35	-0.06	42.97	0.06	37.94	0.15	0.05	0.09
J	45.52	0.11	42.82	-0.09	36.91	-0.88	-0.29	0.36
K	45.30	-0.11	42.73	-0.19	38.27	0.48	0.06	0.26
L								
M	45.50	0.09	43.25	0.34	38.65	0.87	0.43	0.43
N	46.05	0.64	42.90	-0.01	38.00	0.22	0.28	0.29
O	45.65	0.24	42.10	-0.81	36.35	-1.43	-0.67	0.83
MEAN	**45.41**		**42.91**		**37.78**			**0.39**
STDEV	**0.35**		**0.15**		**0.70**			





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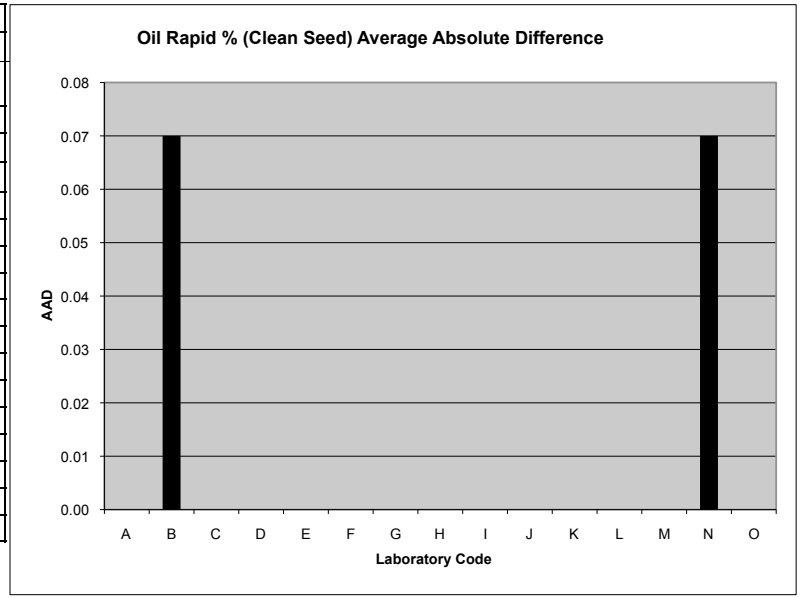
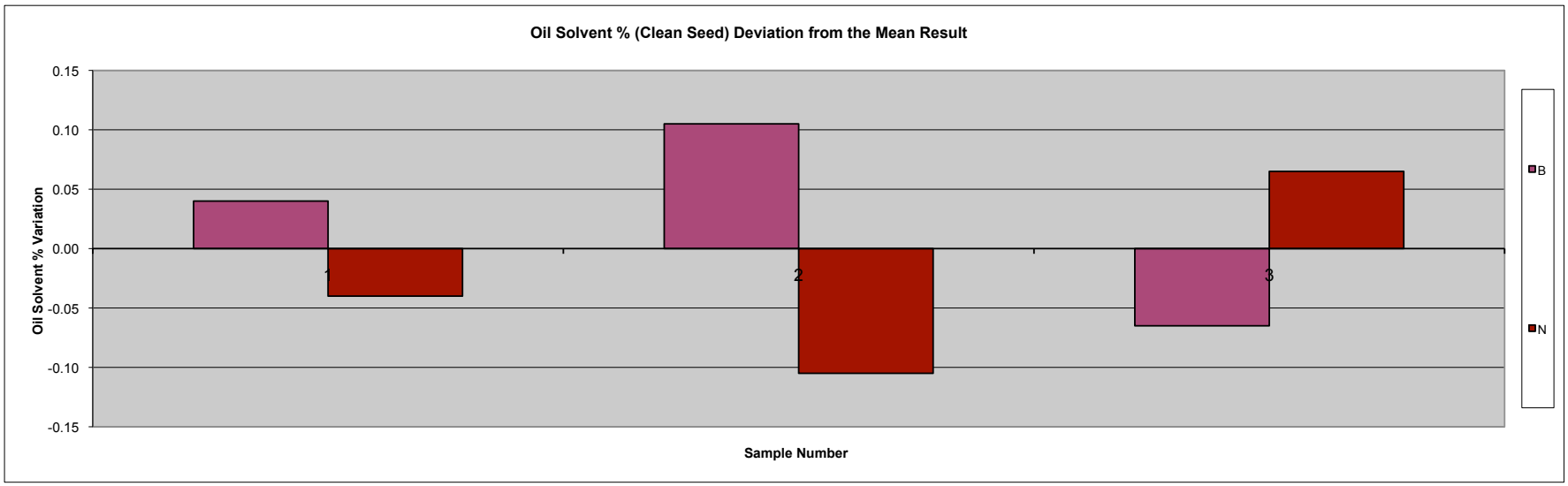
Oil Solvent % (Clean Seed) - ISO Deviation from the Mean								
	Sample 1		Sample 2		Sample 3			Average
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean	Mean of Differences	Absolute Difference
A								
B	46.22	0.04	43.41	0.11	38.02	-0.07	0.03	0.07
C								
D								
E								
F								
G								
H								
I								
J								
K								
L								
M								
N	46.14	-0.04	43.20	-0.10	38.15	0.06	-0.03	0.07
O								
MEAN	**46.18**		**43.30**		**38.09**			**0.07**
STDEV	**0.06**		**0.15**		**0.09**			





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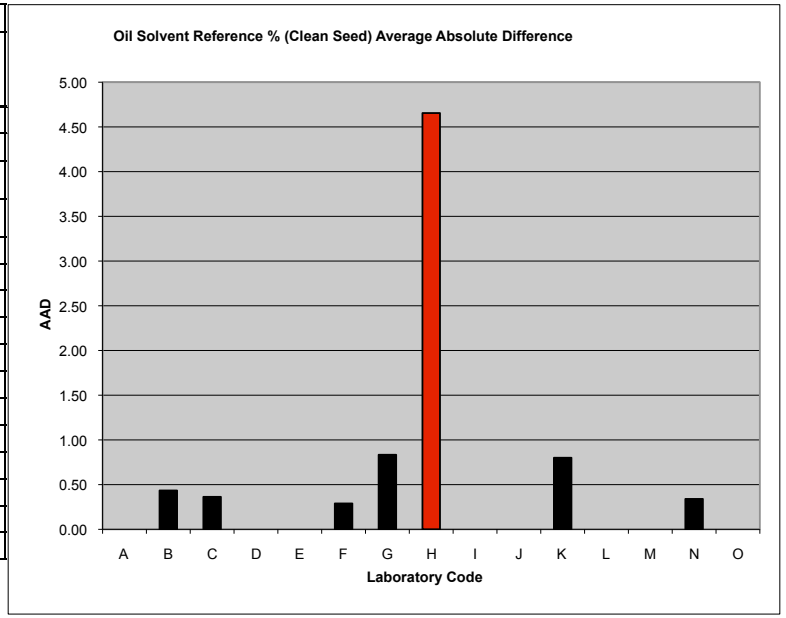
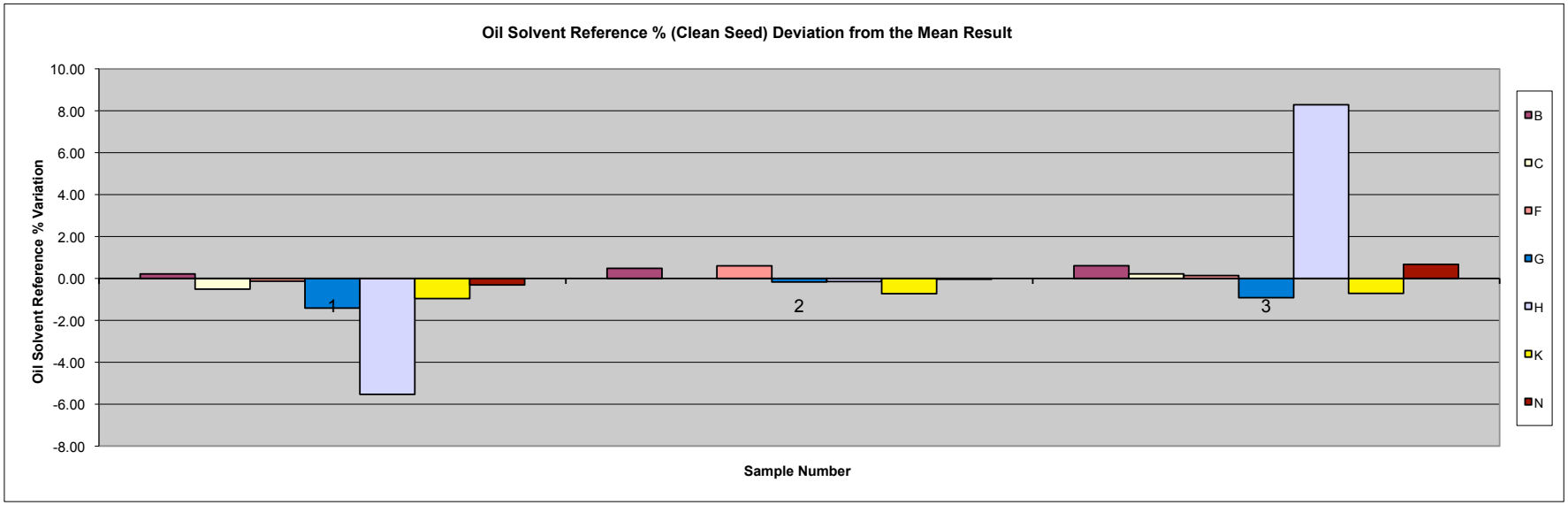
FOSFA % (Clean Seed) Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	46.40	0.21	43.43	0.48	38.07	0.61	0.43	0.43
C	45.67	-0.51			37.68	0.22	-0.15	0.36
D								
E								
F	46.05	-0.13	43.55	0.60	37.60	0.14	0.20	0.29
G	44.77	-1.42	42.78	-0.17	36.55	-0.92	-0.83	0.83
H	40.65	-5.53	42.80	-0.15	45.75	8.29	0.87	4.66
I								
J								
K	45.22	-0.96	42.22	-0.73	36.75	-0.71	-0.80	0.80
L								
M								
N	45.87	-0.31	42.91	-0.04	38.14	0.67	0.11	0.34
O								
MEAN	45.66		42.95		37.46			1.10
STDEV	0.59		0.49		0.67			





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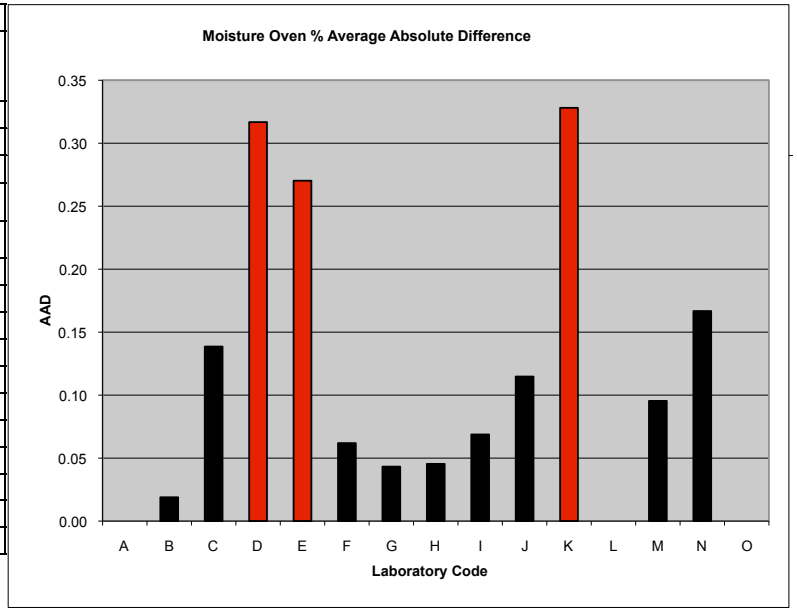
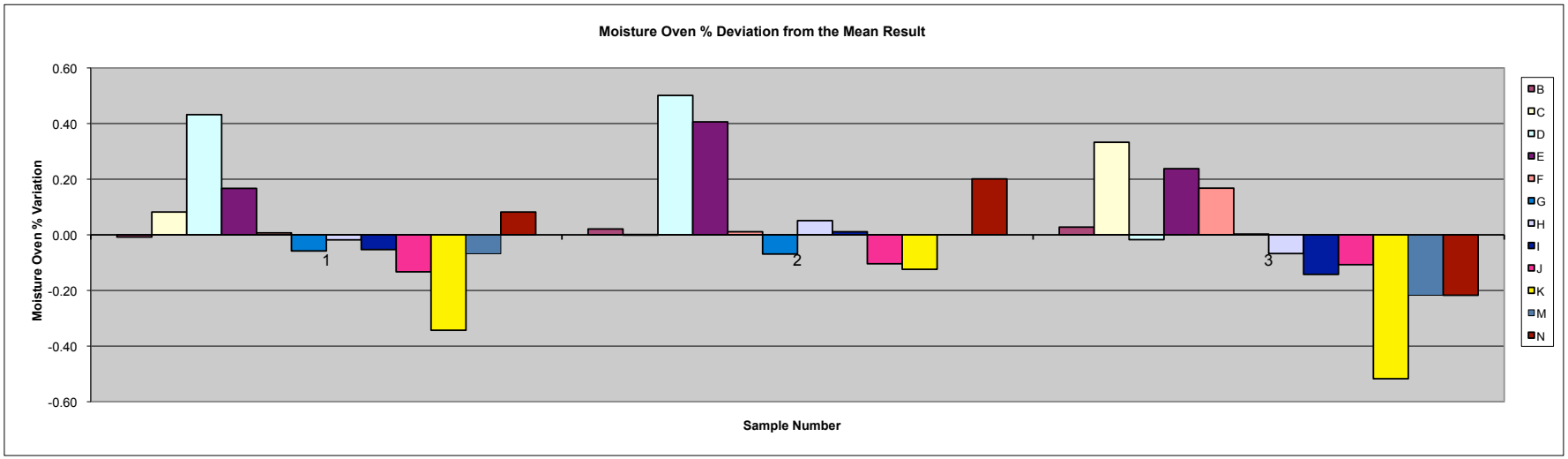
Moisture Oven % Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	5.46	-0.01	4.42	0.02	8.75	0.03	0.01	0.02
C	5.55	0.08	4.40	0.00	9.05	0.33	0.14	0.14
D	5.90	0.43	4.90	0.50	8.70	-0.02	0.31	0.32
E	5.64	0.17	4.81	0.41	8.96	0.24	0.27	0.27
F	5.48	0.01	4.41	0.01	8.89	0.17	0.06	0.06
G	5.41	-0.06	4.33	-0.07	8.72	0.00	-0.04	0.04
H	5.45	-0.02	4.45	0.05	8.65	-0.07	-0.01	0.05
I	5.42	-0.05	4.41	0.01	8.58	-0.14	-0.06	0.07
J	5.34	-0.13	4.30	-0.10	8.61	-0.11	-0.11	0.11
K	5.13	-0.34	4.28	-0.12	8.20	-0.52	-0.33	0.33
L								
M	5.40	-0.07	4.40	0.00	8.50	-0.22	-0.09	0.10
N	5.55	0.08	4.60	0.20	8.50	-0.22	0.02	0.17
O								
MEAN	5.47		4.40		8.72			0.14
STDEV	0.09		0.09		0.18			





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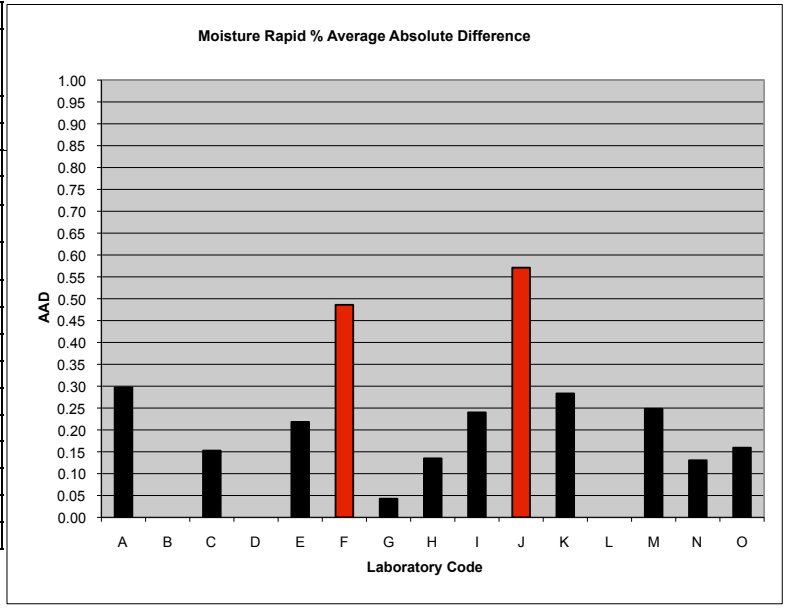
Moisture Rapid % Deviation from the Mean

Lab	Sample 1 Result	Sample 1 S1-Mean	Sample 2 Result	Sample 2 S2-Mean	Sample 3 Result	Sample 3 S3-Mean	Mean of Differences	Average Absolute Difference
A	5.80	0.39	5.10	0.46	8.65	-0.04	0.27	0.30
B								
C	5.25	-0.16	4.40	-0.24	8.75	0.06	-0.12	0.15
D								
E	5.70	0.29	4.85	0.21	8.85	0.16	0.22	0.22
F	5.40	-0.01	4.60	-0.04	10.10	1.41	0.45	0.49
G	5.40	-0.01	4.70	0.06	8.75	0.06	0.03	0.04
H	5.60	0.19	4.70	0.06	8.85	0.16	0.13	0.13
I	5.22	-0.19	4.23	-0.41	8.58	-0.12	-0.24	0.24
J	5.17	-0.25	4.87	0.23	9.93	1.24	0.41	0.57
K	5.06	-0.36	4.28	-0.36	8.56	-0.13	-0.28	0.28
L								
M	5.25	-0.16	4.35	-0.29	8.40	-0.29	-0.25	0.25
N	5.70	0.29	4.70	0.06	8.65	-0.04	0.10	0.13
O	5.40	-0.01	4.90	0.26	8.90	0.21	0.15	0.16
MEAN	**5.41**		**4.64**		**8.69**			**0.26**
STDEV	**0.24**		**0.27**		**0.16**			



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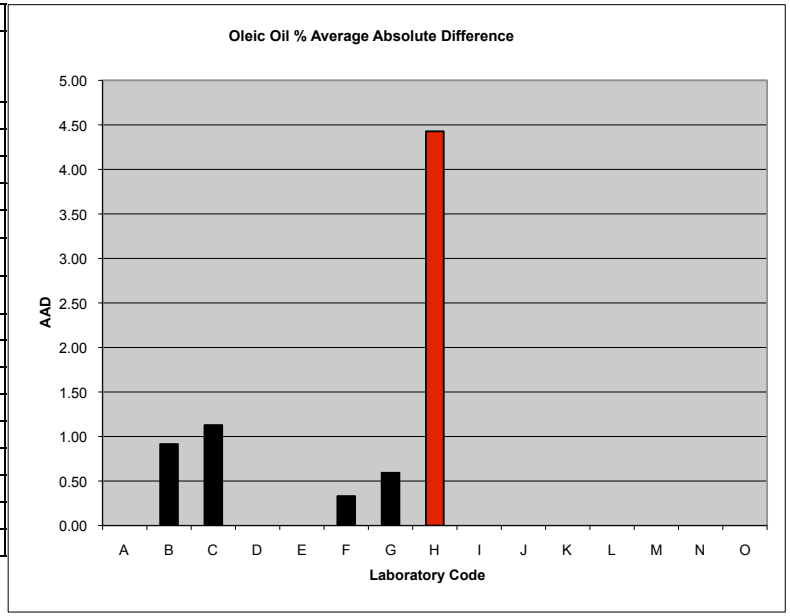
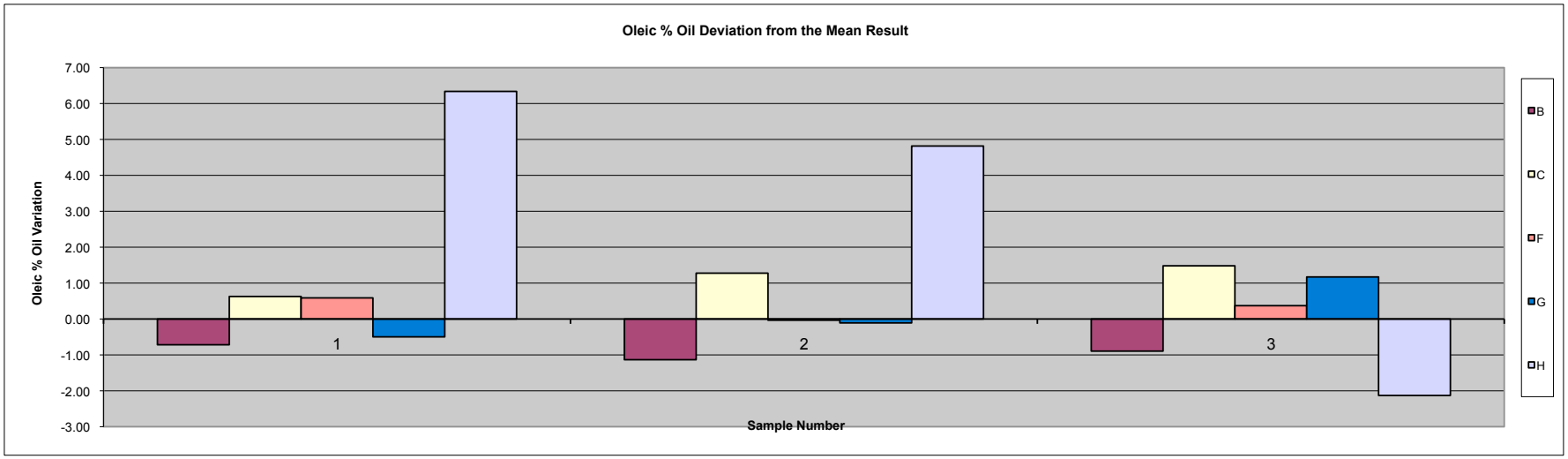
Oleic % Oil Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	60.55	-0.72	68.70	-1.13	66.14	-0.89	-0.92	0.92
C	61.89	0.63	71.11	1.28	68.51	1.48	1.13	1.13
D								
E								
F	61.85	0.59	69.80	-0.03	67.40	0.37	0.31	0.33
G	60.77	-0.50	69.73	-0.11	68.20	1.17	0.19	0.59
H	67.60	6.34	74.65	4.82	64.90	-2.13	3.01	4.43
I								
J								
K								
L								
M								
N								
O								
MEAN	61.26		69.83		67.03			1.48
STDEV	0.71		0.99		1.50			





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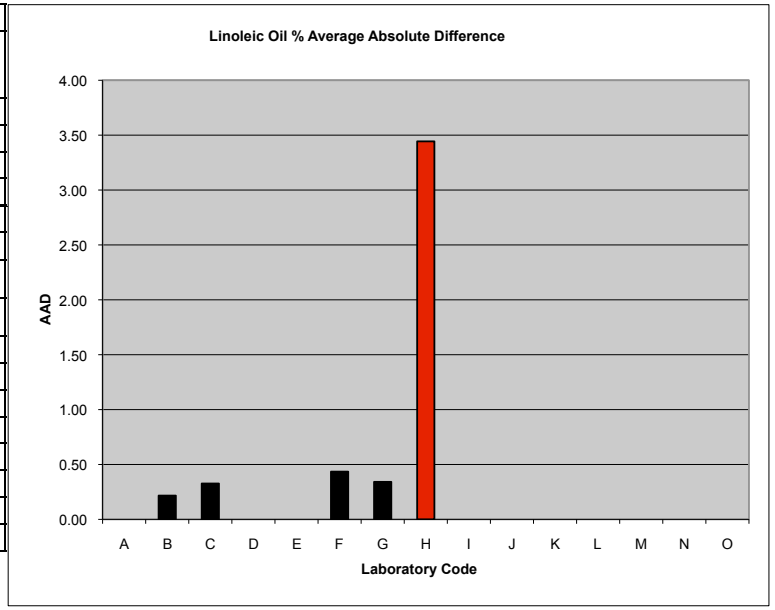
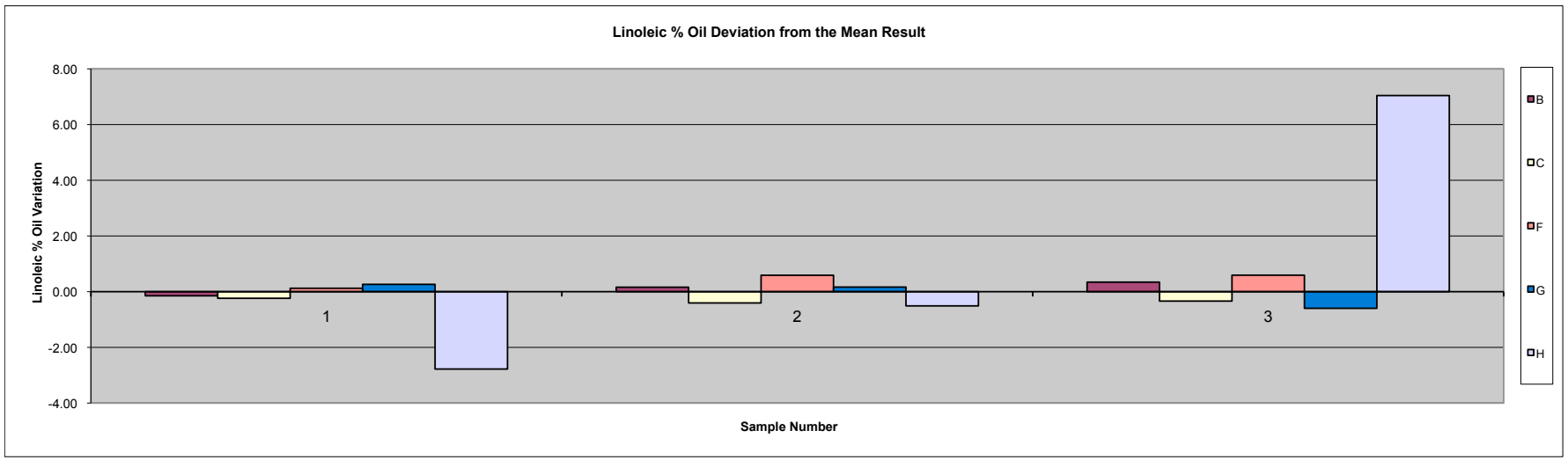
Linoleic % Oil Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	20.93	-0.15	13.27	0.16	15.25	0.34	0.12	0.22
C	20.84	-0.24	12.71	-0.40	14.57	-0.34	-0.33	0.33
D								
E								
F	21.20	0.12	13.70	0.59	15.50	0.59	0.44	0.44
G	21.34	0.26	13.28	0.16	14.31	-0.60	-0.06	0.34
H	18.30	-2.78	12.60	-0.51	21.95	7.04	1.25	3.44
I								
J								
K								
L								
M								
N								
O								
MEAN	21.08		13.11		14.91			0.95
STDEV	0.23		0.45		0.56			





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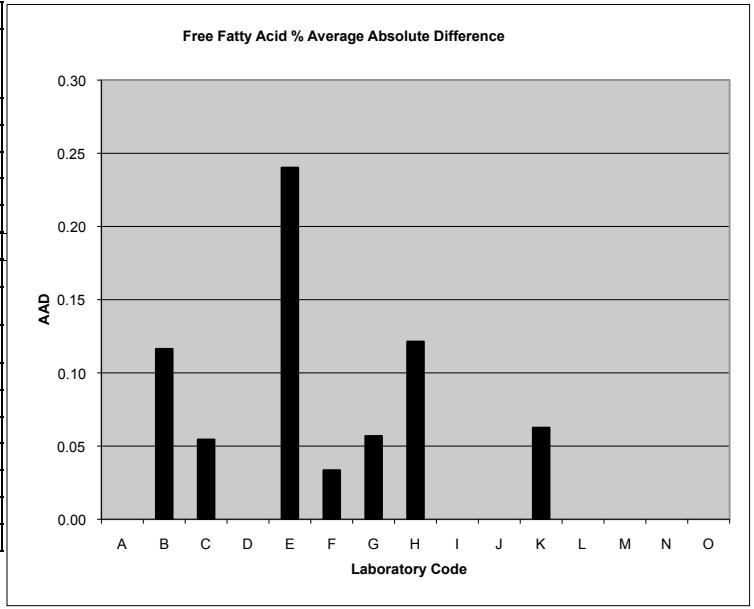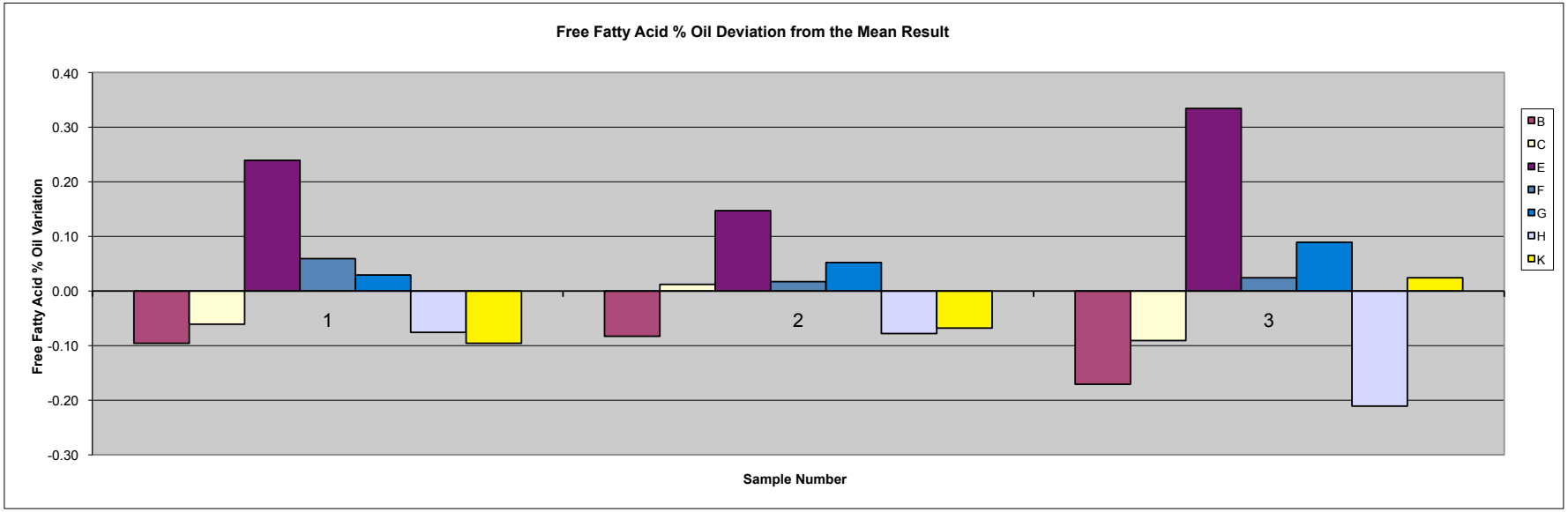
Free Fatty Acid % Oil Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	0.08	-0.10	0.07	-0.08	0.14	-0.17	-0.12	0.12
C	0.12	-0.06	0.16	0.01	0.22	-0.09	-0.05	0.05
D								
E	0.42	0.24	0.30	0.15	0.65	0.33	0.24	0.24
F	0.24	0.06	0.17	0.02	0.34	0.02	0.03	0.03
G	0.21	0.03	0.20	0.05	0.40	0.09	0.06	0.06
H	0.10	-0.08	0.07	-0.08	0.10	-0.21	-0.12	0.12
I								
J								
K	0.08	-0.10	0.08	-0.07	0.34	0.02	-0.05	0.06
L								
M								
N								
O								
MEAN	**0.18**		**0.15**		**0.31**			**0.10**
STDEV	**0.12**		**0.08**		**0.18**