



**AOF Test Check Program
Bimonthly Report
Round 3
May – 2016**

Result Receival Dates

Lab Code	Date
A	30/05/2016
B	-
C	31/05/2016
D	16/05/2016
E	11/05/2016
F	-
G	-
H	20/05/2016
I	09/05/2016
J	30/05/2016
K	09/05/2016
L	31/05/2016
M	27/05/2016
N	-
O	31/05/2016
Q	-
R	10/05/2016
S	31/05/2016

Discussion of Results

Test Weight

No outliers were observed for this test.

Impurities

No outliers were observed for this test.



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Oil Rapid

Sample 1 – One outlier was identified for Lab **M** with a 0.27 of a percent discrepancy from the lower quartile limit (44.62%).

Sample 2 – One outlier was identified for Lab **E** with a 0.26 of a percent discrepancy from the upper quartile limit (48.29%).

Sample 3 – One outlier was identified for Lab **J** with a 0.29 of a percent discrepancy from the upper quartile limit (47.92%).

The rapid test sat within or very close to results published for the solvent extraction for samples 1 and 3. Sample 2 results were the highest oil content in the set and varied by 0.73 percent between NIR and oil extraction mean results whilst maintaining similar accuracies through lower variability across labs. Results published by all laboratories displaying outlying data were outside the parameters of the solvent extraction variability provided in the next section.

Oil Solvent Extraction

Sample 1 – No outliers were observed for this test.

Sample 2 – No outliers were observed for this test.

Sample 3 – One outlier was identified for Lab **S** with a 0.14 of a percent discrepancy from the lower quartile limit (41.39%).

Standard deviation of each test was within the reproducibility for ISO659:2009. 4 of the 6 labs were participating within protocol guidelines outlined by the ISO659:2009. Removal of results submitted by laboratories not participating at the capacity encompassed by the method protocol has an increasing effect on the mean results of between 0.14 to 0.33% and a decrease in variability. However decreasing the population of participants to 4 laboratories significantly increases error values.

Results submitted by the laboratories not participating within the method outline would not significantly differ from the results statistically should their results be compared with the resultant mean and deviation after these results are omitted.



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Moisture Oven

Sample 1 – One outlier was identified for Lab **K** with a 0.46 of a percent discrepancy from the lower quartile limit (5.8%).

Sample 2 – Outliers were identified for Lab **D** and **J**. Lab **D** was 0.01 of a percent discrepancy from the lower quartile limit (4.81%). Lab **J** was 0.14 of a percent discrepancy from the upper quartile limit (5.79%)

Sample 3 – One outlier was identified for Lab **D** with a 0.05 of a percent discrepancy from the lower quartile limit (6.09%).

Moisture Rapid

Sample 1 – No outliers were observed for this test.

Sample 2 – No outliers were observed for this test.

Sample 3 – One outlier was identified for Lab **S** with a 0.07 of a percent discrepancy from the upper quartile limit (6.78%).

Oleic acid

Sample 1 – One outlier was identified for Lab **S** with a 0.91 of a percent discrepancy from the upper quartile limit (64.44%).

Sample 2 – No outliers were observed for this test.

Sample 3 – One outlier was identified for Lab **S** with a 1.32 of a percent discrepancy from the upper quartile limit (65.39%).

Linoleic acid

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **M** with a 0.84 of a percent discrepancy from the lower quartile limit (12.95%).

Sample 3 – No outliers were observed for this test.



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Linolenic acid

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **A** with a 0.07 of a percent discrepancy from the upper quartile limit (6.89%).

Sample 3 – No outliers were observed for this test.

Free Fatty Acid

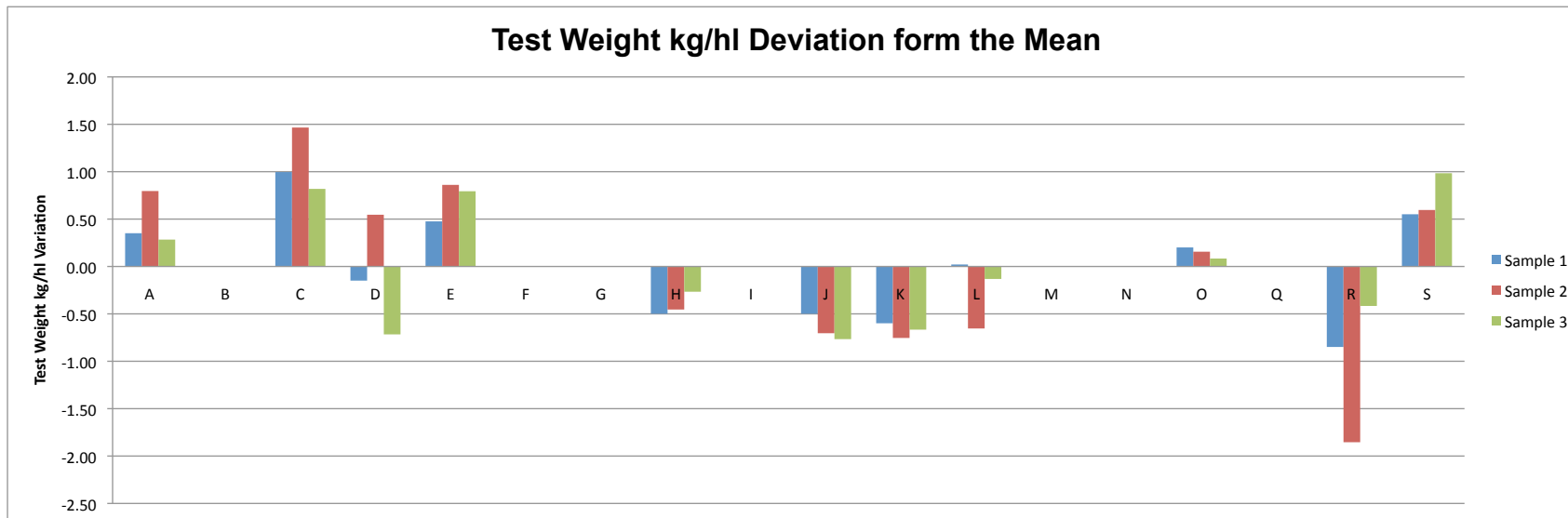
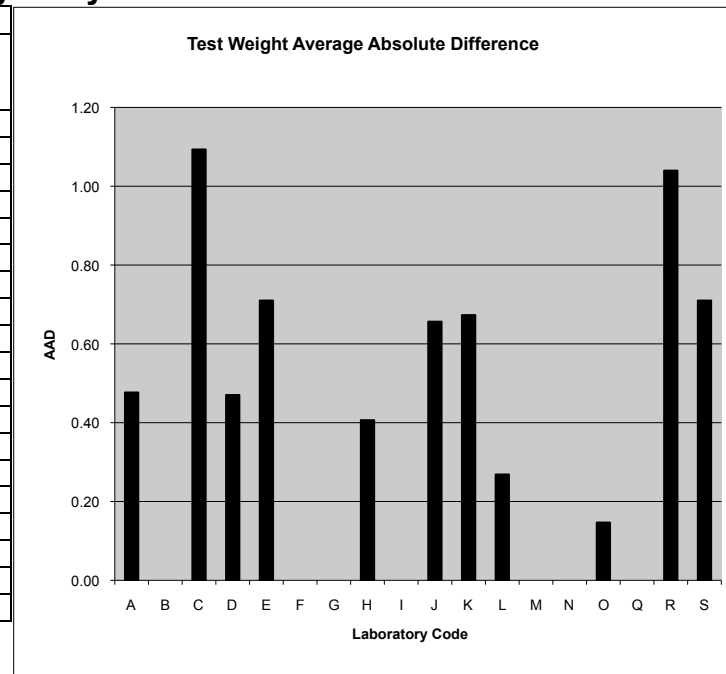
Sample 1 – No outliers were observed for this test.

Sample 2 – No outliers were observed for this test.

Sample 3 – One outlier was identified for Lab **M** with a 0.03 of a percent discrepancy from the upper quartile limit (1.01%).

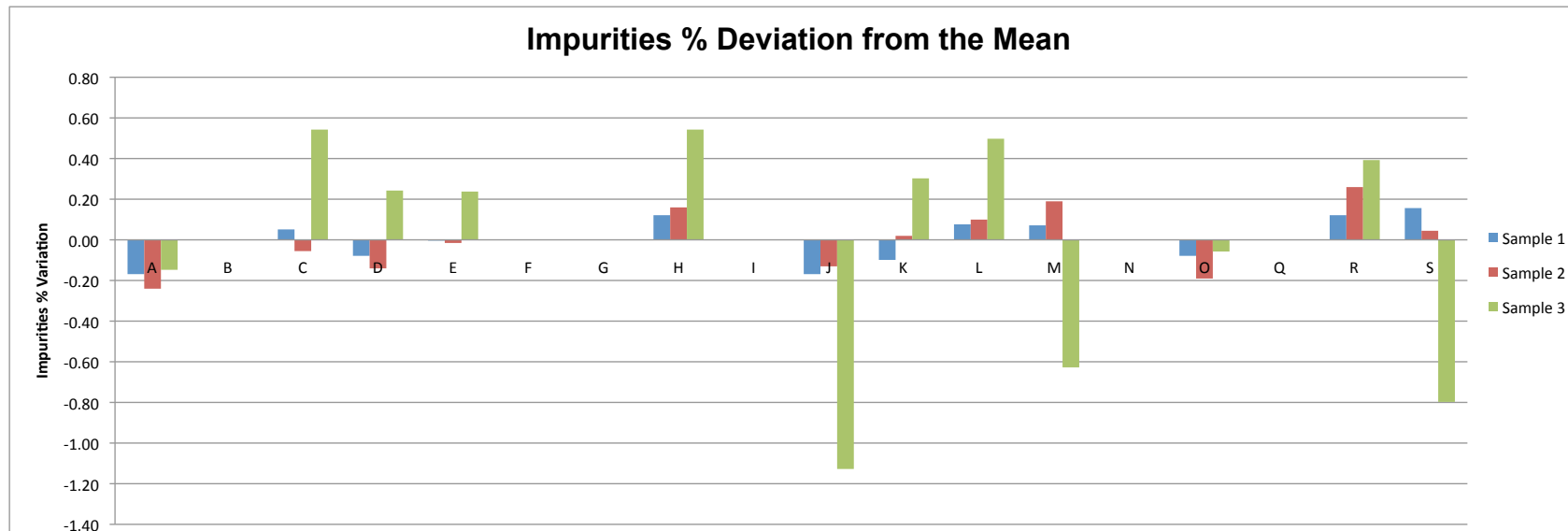
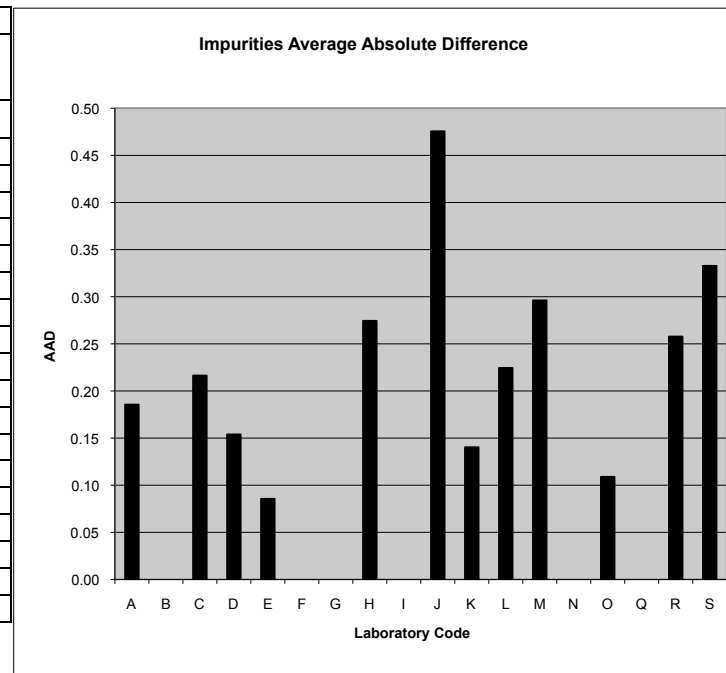
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	69.25	0.35	68.25	0.80	68.25	0.28	0.48	0.48
B								
C	69.90	1.00	68.92	1.47	68.79	0.82	1.09	1.09
D	68.75	-0.15	68.00	0.55	67.25	-0.72	-0.11	0.47
E	69.38	0.48	68.32	0.86	68.76	0.79	0.71	0.71
F								
G								
H	68.40	-0.50	67.00	-0.45	67.70	-0.27	-0.41	0.41
I								
J	68.40	-0.50	66.75	-0.70	67.20	-0.77	-0.66	0.66
K	68.30	-0.60	66.70	-0.75	67.30	-0.67	-0.67	0.67
L	68.92	0.02	66.80	-0.65	67.84	-0.13	-0.25	0.27
M								
N								
O	69.10	0.20	67.61	0.16	68.05	0.08	0.15	0.15
Q								
R	68.05	-0.85	65.60	-1.85	67.55	-0.42	-1.04	1.04
S	69.45	0.55	68.05	0.60	68.95	0.98	0.71	0.71
MEAN	68.90		67.45		67.97			0.60
STDEV	0.57		0.97		0.65			



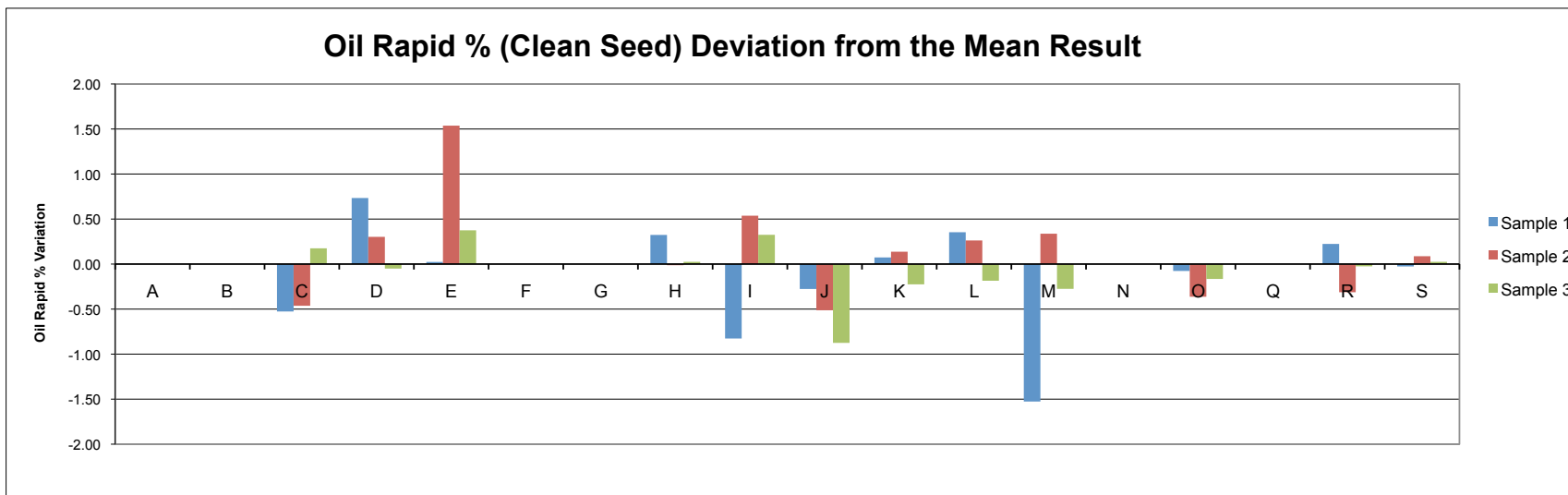
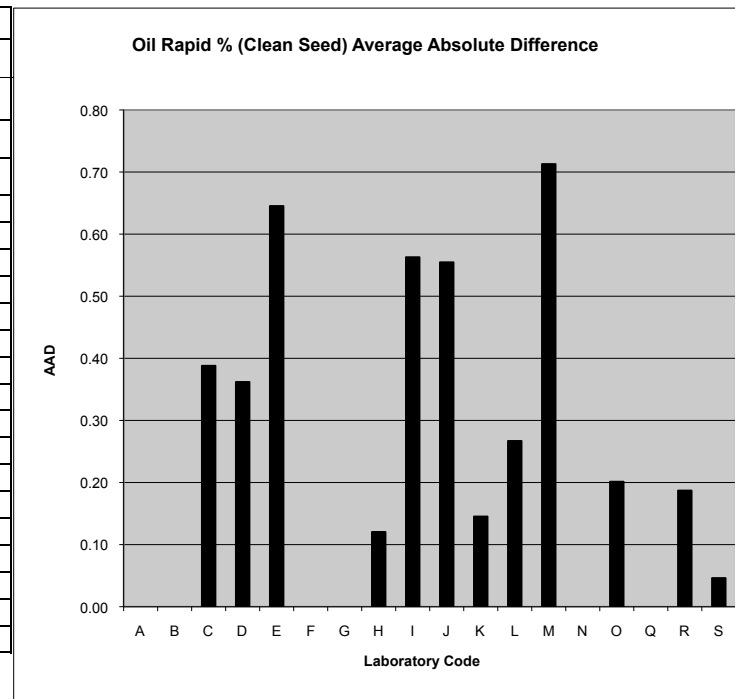
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	0.31	-0.17	0.45	-0.24	1.31	-0.15	-0.19	0.19
B								
C	0.53	0.05	0.64	-0.06	2.00	0.54	0.18	0.22
D	0.40	-0.08	0.55	-0.14	1.70	0.24	0.01	0.15
E	0.48	0.00	0.68	-0.02	1.70	0.24	0.07	0.09
F								
G								
H	0.60	0.12	0.85	0.16	2.00	0.54	0.27	0.27
I								
J	0.31	-0.17	0.56	-0.13	0.33	-1.13	-0.48	0.48
K	0.38	-0.10	0.71	0.02	1.76	0.30	0.07	0.14
L	0.56	0.08	0.79	0.10	1.96	0.50	0.22	0.22
M	0.55	0.07	0.88	0.19	0.83	-0.63	-0.12	0.30
N								
O	0.40	-0.08	0.50	-0.19	1.40	-0.06	-0.11	0.11
Q								
R	0.60	0.12	0.95	0.26	1.85	0.39	0.26	0.26
S	0.64	0.16	0.74	0.04	0.66	-0.80	-0.20	0.33
MEAN	0.48		0.69		1.46			0.23
STDEV	0.12		0.16		0.57			



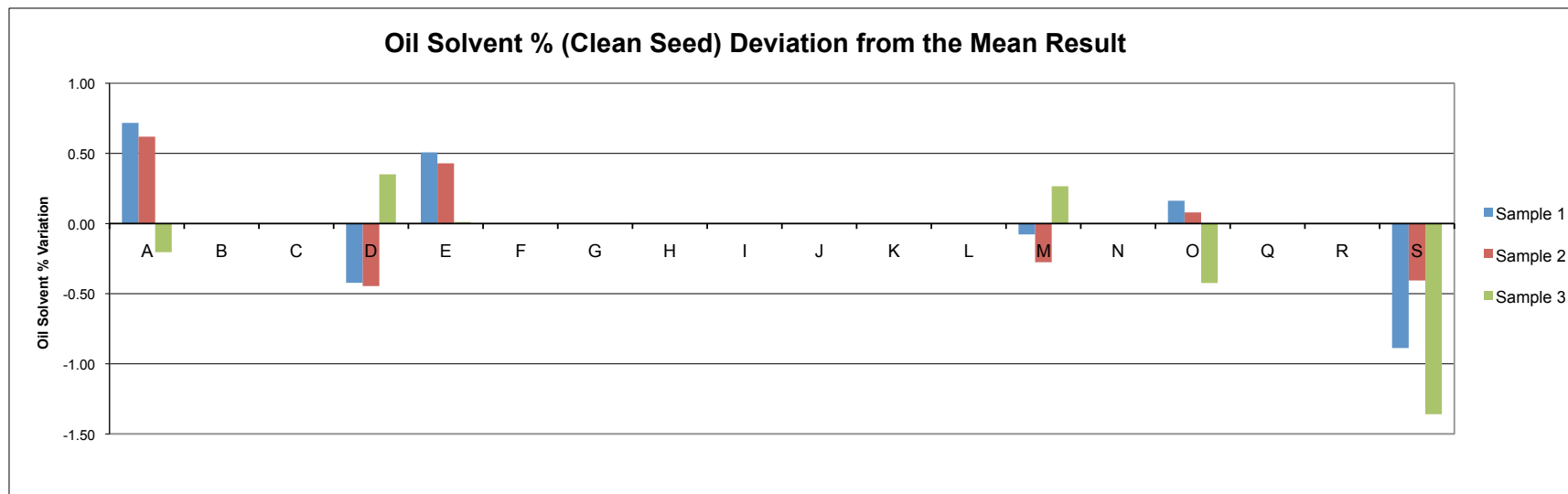
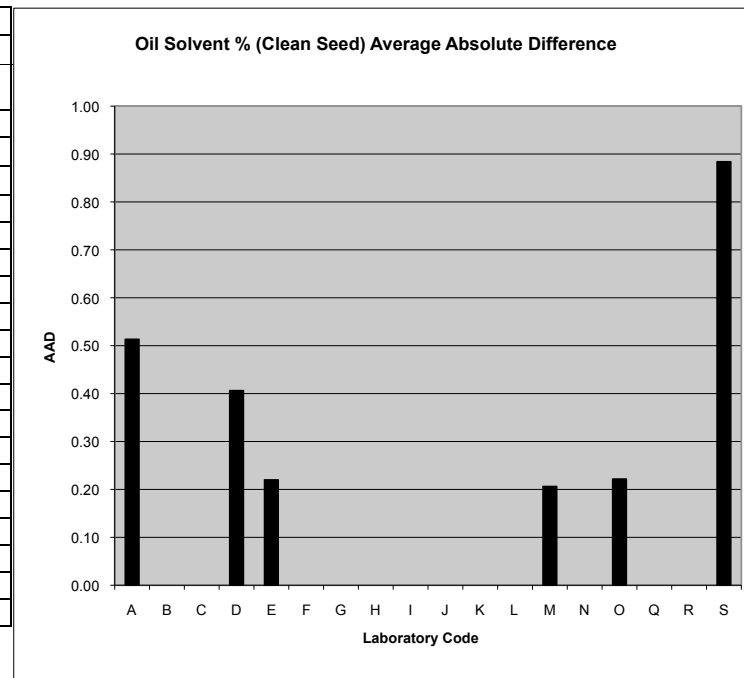
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	45.35	-0.53	46.55	-0.46	42.35	0.17	-0.27	0.39
D	46.61	0.73	47.32	0.30	42.13	-0.05	0.33	0.36
E	45.90	0.02	48.55	1.54	42.55	0.37	0.65	0.65
F								
G								
H	46.20	0.32	47.00	-0.01	42.20	0.02	0.11	0.12
I	45.05	-0.83	47.55	0.54	42.50	0.32	0.01	0.56
J	45.60	-0.28	46.50	-0.51	41.30	-0.88	-0.55	0.55
K	45.95	0.07	47.15	0.14	41.95	-0.23	0.00	0.15
L	46.23	0.35	47.28	0.26	41.99	-0.19	0.14	0.27
M	44.35	-1.53	47.35	0.34	41.90	-0.28	-0.49	0.71
N								
O	45.80	-0.08	46.65	-0.36	42.01	-0.17	-0.20	0.20
Q								
R	46.10	0.22	46.70	-0.31	42.15	-0.02	-0.04	0.19
S	45.85	-0.03	47.10	0.09	42.20	0.02	0.03	0.05
MEAN	45.88		47.01		42.18			0.35
STDEV	0.43		0.36		0.22			



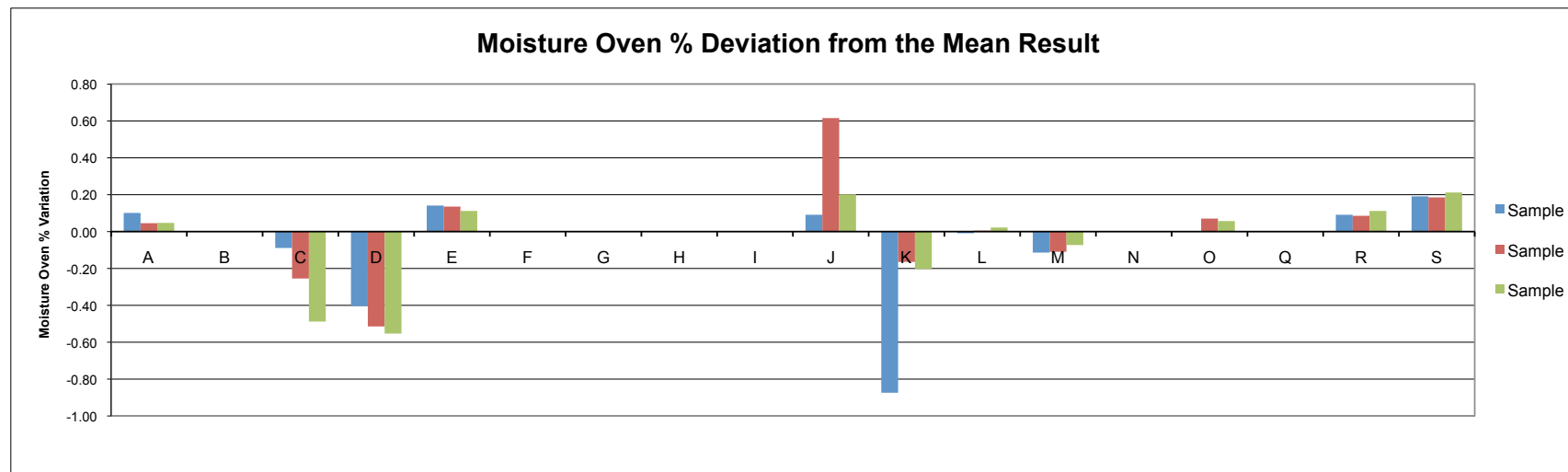
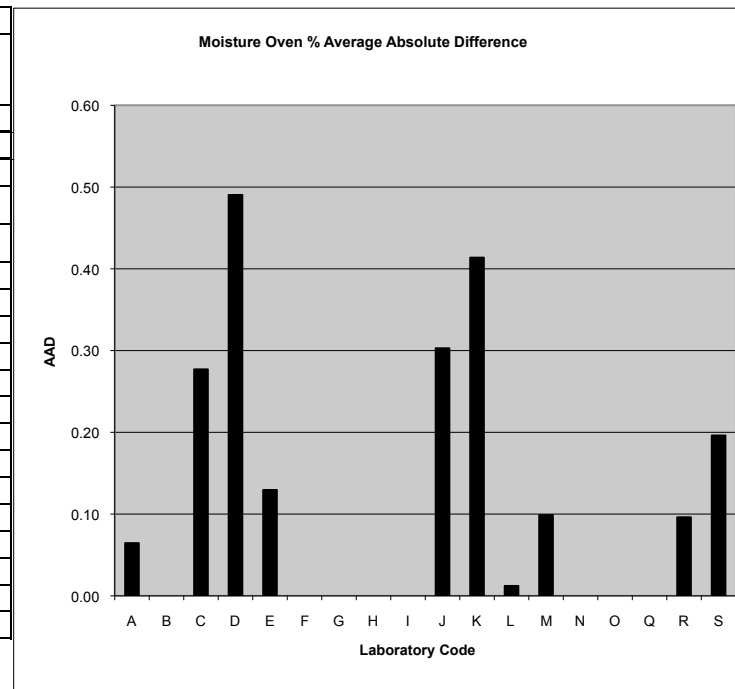
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	46.26	0.72	47.03	0.62	42.41	-0.20	0.38	0.51
B								
C								
D	45.12	-0.42	45.96	-0.45	42.96	0.35	-0.17	0.41
E	46.05	0.51	46.84	0.43	42.62	0.01	0.22	0.22
F								
G								
H								
I								
J								
K								
L								
M	45.46	-0.08	46.13	-0.28	42.88	0.27	-0.03	0.21
N								
O	45.70	0.16	46.49	0.08	42.19	-0.42	-0.06	0.22
Q								
R								
S	44.65	-0.89	46.00	-0.41	41.25	-1.36	-0.88	0.88
MEAN	45.54		46.41		42.61			0.41
STDEV	0.60		0.45		0.32			



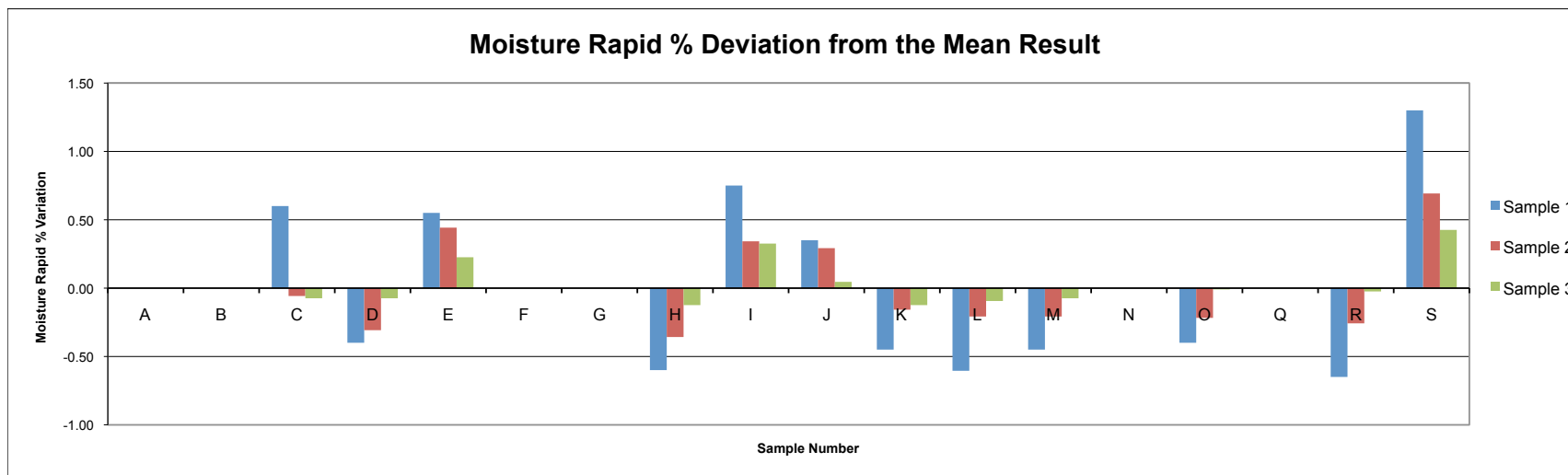
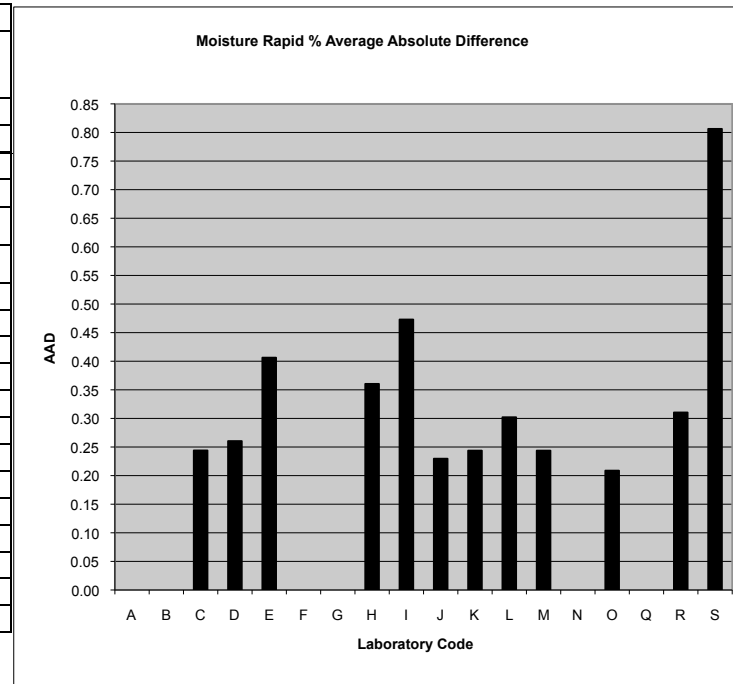
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	6.31	0.10	5.36	0.05	6.64	0.05	0.06	0.06
B								
C	6.12	-0.09	5.06	-0.25	6.10	-0.49	-0.28	0.28
D	5.81	-0.40	4.80	-0.51	6.04	-0.55	-0.49	0.49
E	6.35	0.14	5.45	0.14	6.70	0.11	0.13	0.13
F								
G								
H								
I								
J	6.30	0.09	5.93	0.62	6.79	0.20	0.30	0.30
K	5.34	-0.87	5.15	-0.16	6.39	-0.20	-0.41	0.41
L	6.20	-0.01	5.32	0.01	6.61	0.02	0.01	0.01
M	6.10	-0.11	5.21	-0.11	6.52	-0.07	-0.10	0.10
N								
O			5.39	0.07	6.65	0.06		
Q								
R	6.30	0.09	5.40	0.09	6.70	0.11	0.10	0.10
S	6.40	0.19	5.50	0.19	6.80	0.21	0.20	0.20
MEAN	6.21		5.31		6.59			0.21
STDEV	0.18		0.15		0.21			



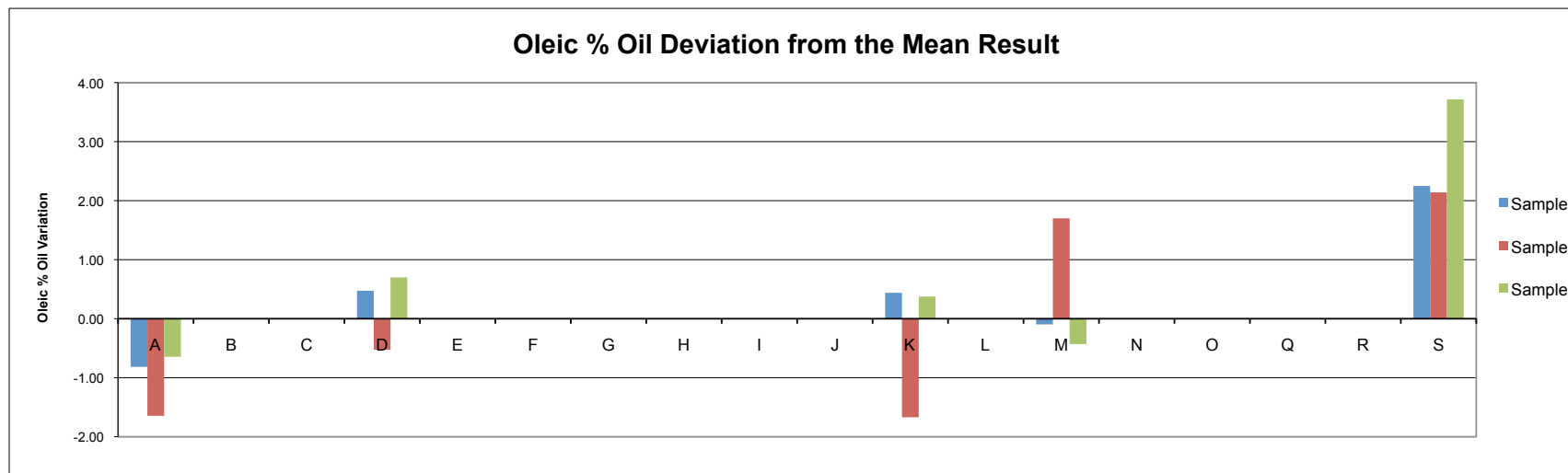
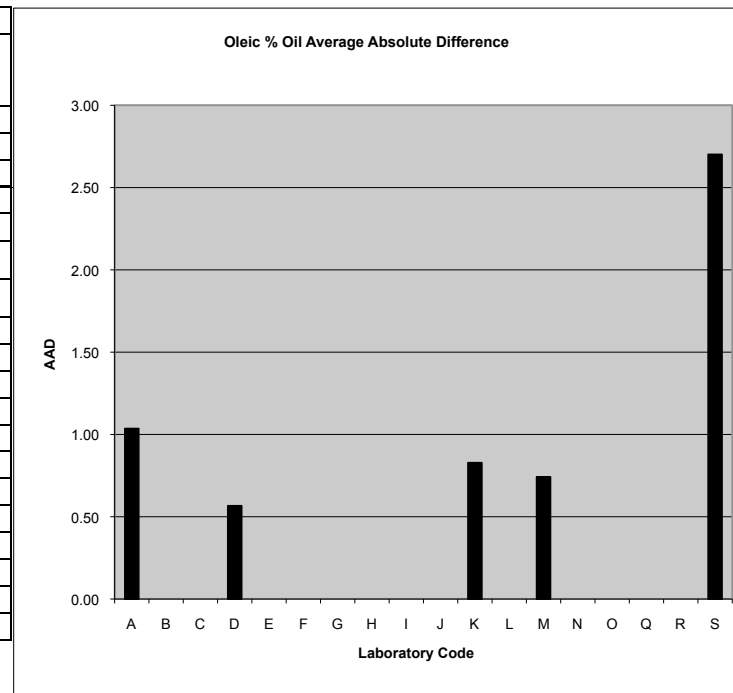
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	6.35	0.60	5.00	-0.06	6.35	-0.07	0.16	0.24
D	5.35	-0.40	4.75	-0.31	6.35	-0.07	-0.26	0.26
E	6.30	0.55	5.50	0.44	6.65	0.23	0.41	0.41
F								
G								
H	5.15	-0.60	4.70	-0.36	6.30	-0.12	-0.36	0.36
I	6.50	0.75	5.40	0.34	6.75	0.33	0.47	0.47
J	6.10	0.35	5.35	0.29	6.47	0.05	0.23	0.23
K	5.30	-0.45	4.90	-0.16	6.30	-0.12	-0.24	0.24
L	5.15	-0.60	4.85	-0.21	6.33	-0.09	-0.30	0.30
M	5.30	-0.45	4.85	-0.21	6.35	-0.07	-0.24	0.24
N								
O	5.35	-0.40	4.84	-0.22	6.42	-0.01	-0.21	0.21
Q								
R	5.10	-0.65	4.80	-0.26	6.40	-0.02	-0.31	0.31
S	7.05	1.30	5.75	0.69	6.85	0.43	0.81	0.81
MEAN	5.75		5.06		6.42			0.34
STDEV	0.67		0.35		0.15			



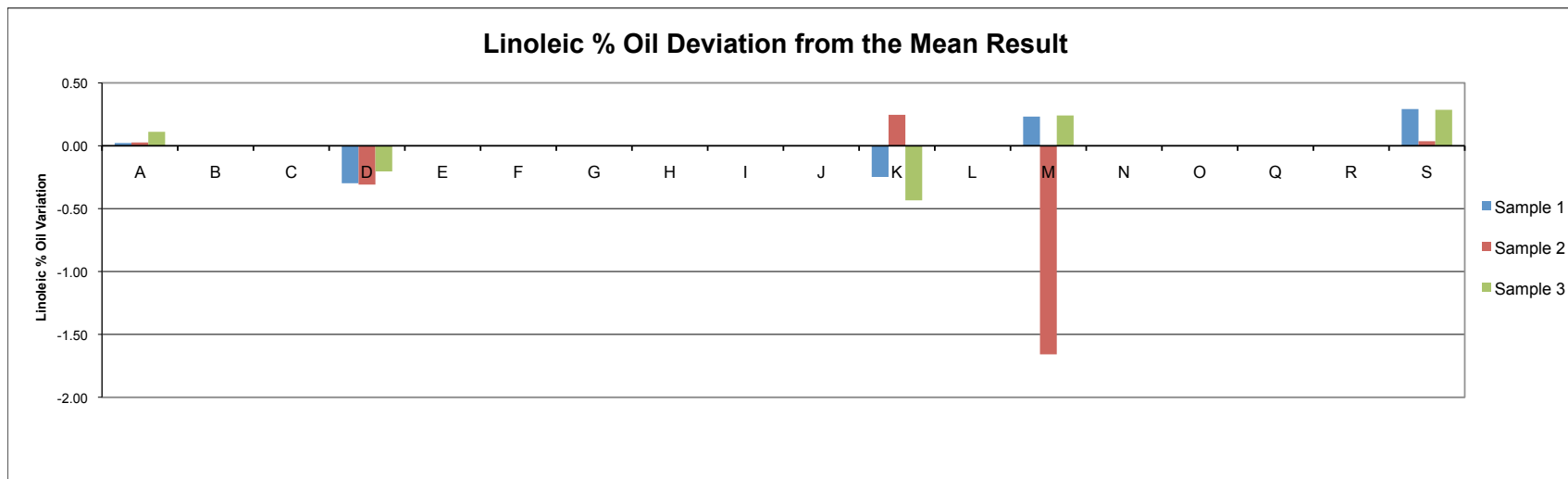
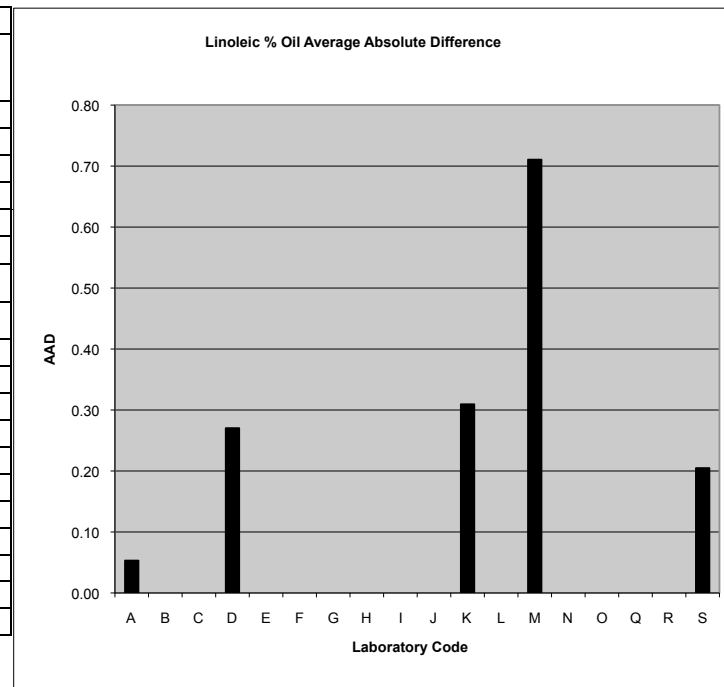
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	62.29	-0.82	70.62	-1.65	62.34	-0.64	-1.04	1.04
B								
C								
D	63.58	0.47	71.74	-0.53	63.69	0.70	0.22	0.57
E								
F								
G								
H								
I								
J								
K	63.54	0.44	70.59	-1.67	63.36	0.38	-0.29	0.83
L								
M	63.01	-0.10	73.96	1.70	62.56	-0.43	0.39	0.74
N								
O								
Q								
R								
S	65.35	2.25	74.40	2.14	66.70	3.71	2.70	2.70
MEAN	63.10		72.26		62.99			1.17
STDEV	0.60		1.82		0.64			



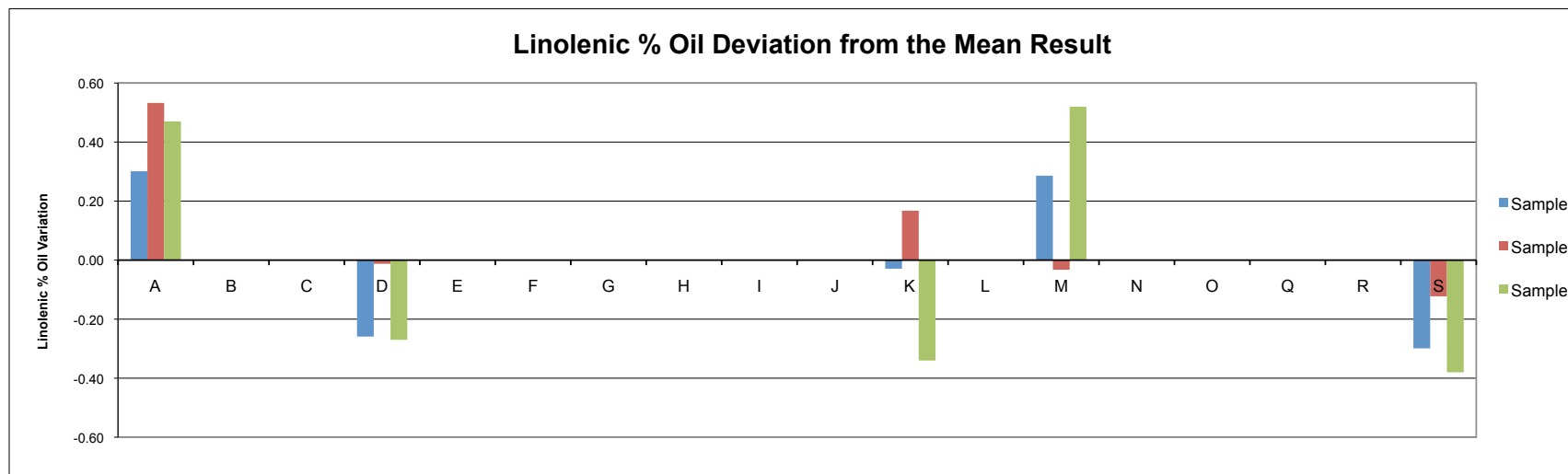
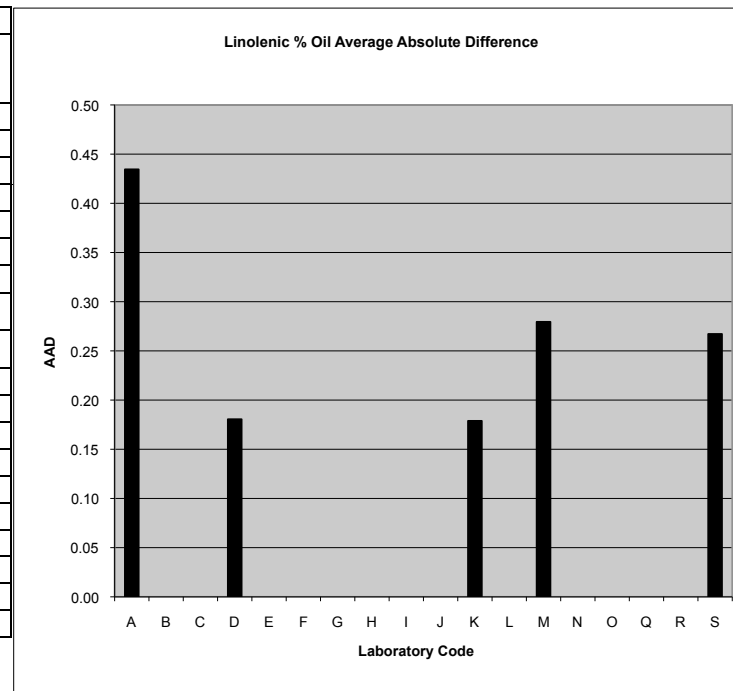
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Linoleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	21.08	0.02	13.79	0.03	18.83	0.11	0.05	0.05
B								
C								
D	20.76	-0.30	13.46	-0.31	18.51	-0.20	-0.27	0.27
E								
F								
G								
H								
I								
J								
K	20.81	-0.25	14.01	0.25	18.28	-0.43	-0.15	0.31
L								
M	21.29	0.23	12.11	-1.66	18.96	0.24	-0.40	0.71
N								
O								
Q								
R								
S	21.35	0.29	13.80	0.04	19.00	0.29	0.20	0.20
MEAN	21.06		13.76		18.71			0.31
STDEV	0.27		0.23		0.31			



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Linolenic % 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	7.65	0.30	6.96	0.53	9.75	0.47	0.43	0.43
B								
C								
D	7.09	-0.26	6.41	-0.01	9.01	-0.27	-0.18	0.18
E								
F								
G								
H								
I								
J								
K	7.32	-0.03	6.59	0.17	8.94	-0.34	-0.07	0.18
L								
M	7.64	0.29	6.39	-0.03	9.80	0.52	0.26	0.28
N								
O								
Q								
R								
S	7.05	-0.30	6.30	-0.12	8.90	-0.38	-0.27	0.27
MEAN	7.35		6.42		9.28			0.27
STDEV	0.29		0.12		0.45			



Free Fatty Acid % Oil Deviation from the Mean				
Sample 1	Sample 2	Sample 3	Mean of	Absolute

Free Fatty Acid % oil Average Absolute Difference
