



**AOF Test Check Program
Bimonthly Report
Round 2
March – 2016**

Result Receival Dates

Lab Code	Date
A	31/03/2016
B	
C	31/03/2016
D	31/03/2016
E	
F	31/03/2016
G	
H	11/03/2016
I	09/03/2016
J	09/03/2016
K	09/03/2016
L	30/03/2016
M	23/03/2016
N	
O	16/03/2016
Q	31/03/2016
R	01/04/2016
S	23/03/2016

Discussion of Results

Test Weight

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **E** with a 0.43 kg/hL discrepancy from the lower quartile limit (67.03 kg/hL).

Sample 3 – No outliers were observed for this test.



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Impurities

Sample 1 – Outliers were identified for Lab **A**, **F**, **O** and **Q**. Lab **A**, **F**, and **O** were 0.05, 0.05, and 0.11 of a percent discrepancy, respectively, from the lower quartile limit (0.61%). Lab **Q** was 0.41 of a percent discrepancy from the upper quartile limit (0.85%).

Sample 2 – Outliers were identified for Lab **A**, **H** and **S**. Lab **H** was 0.51 of a percent discrepancy from the upper quartile limit while Lab **A** published results at the limit of 2.15%. Lab **S** was 0.60 of a percent discrepancy from the lower quartile limit (0.63%).

Sample 3 – One outlier was identified for Lab **D** was 0.23 of a percent discrepancy from the lower quartile limit (0.58%).

Oil Rapid

Sample 1 – One outlier was identified for Lab **E** with a 0.23 of a percent discrepancy from the upper quartile limit (47.92%).

Sample 2 – No outliers were observed for this test.

Sample 3 – Outliers were identified for Lab **E** and **I** at 0.56 and 0.11 of a percent, respectively, from the upper quartile limit (45.40%).

Results published by laboratories **E** and **I** displaying outlying data were still within result parameters of the solvent extraction results at 95% confidence.

Oil Solvent Extraction

No outliers were observed for this test.

Standard deviation of each test was within the reproducibility for ISO659:2009. 5 of the 7 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 0.11 to 0.25% and a decrease in variability.

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 disclosed.



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Moisture Oven

- Sample 1 – One outlier was identified for Lab **M** with a 0.43 of a percent discrepancy from the lower quartile limit (4.75%).
- Sample 2 – One outlier was identified for Lab **M** with a 0.43 of a percent discrepancy from the lower quartile limit (5.87%).
- Sample 3 – One outlier was identified for Lab **M** with a 0.42 of a percent discrepancy from the lower quartile limit (5.34%).

Moisture Rapid

- Sample 1 – No outliers were observed for this test.
- Sample 2 – Outliers were identified for Lab **E** and **S** at 0.09 and 0.24 of a percent, respectively, from the upper quartile limit (6.66%).
- Sample 3 – No outliers were observed for this test.

Oleic acid

No outliers were observed for this test.

Linoleic acid

No outliers were observed for this test.

Linolenic acid

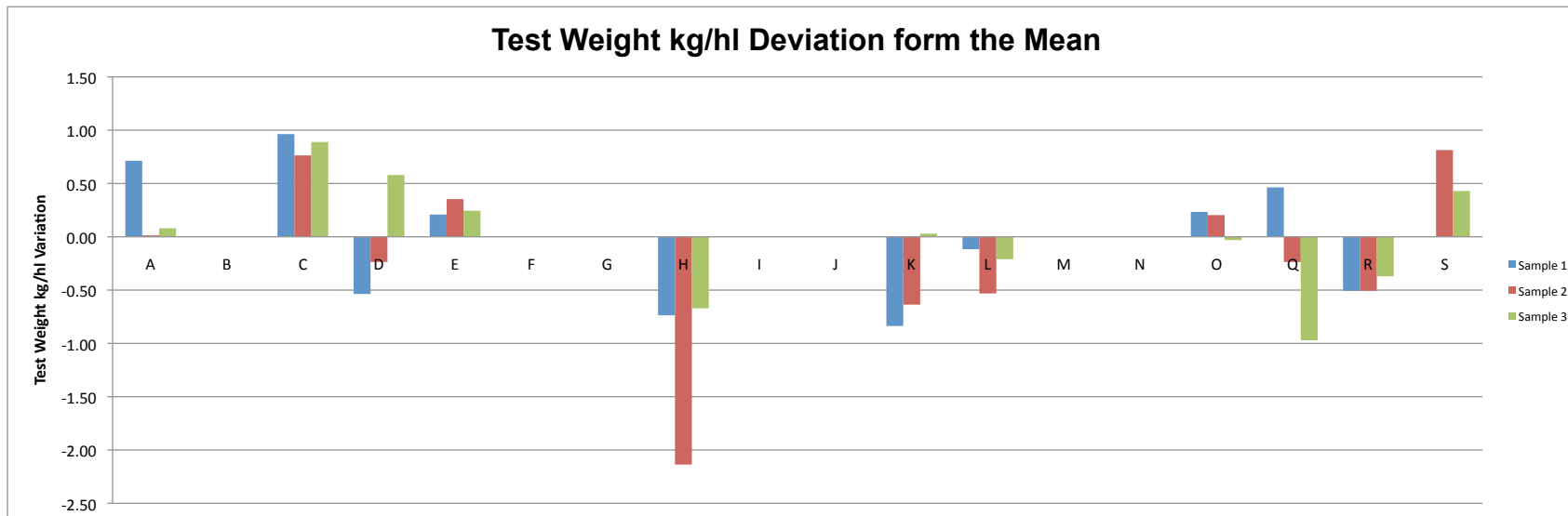
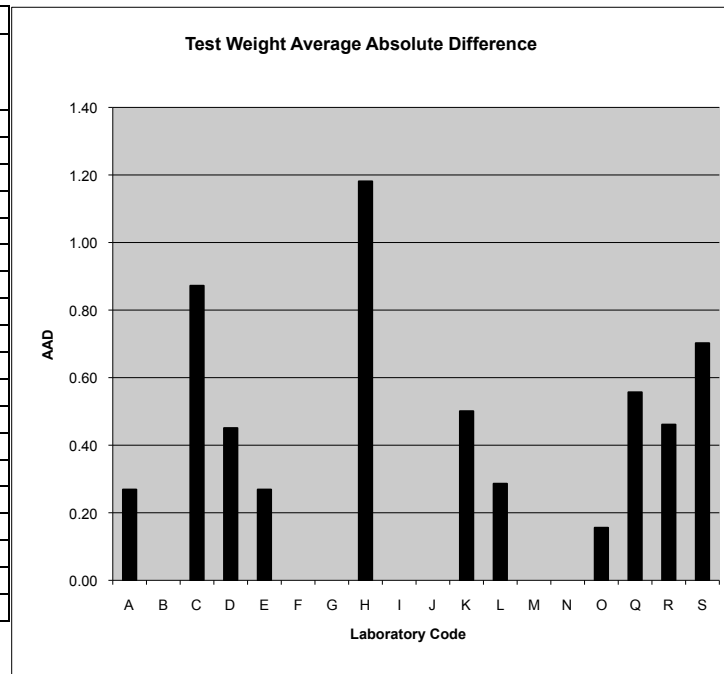
- Sample 1 – No outliers were observed for this test.
- Sample 2 – One outlier was identified for Lab **M** with a 0.10 of a percent discrepancy from the upper quartile limit (9.05%).
- Sample 3 – No outliers were observed for this test.

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 0.04 of a percent discrepancy from the upper quartile limit (0.75%).

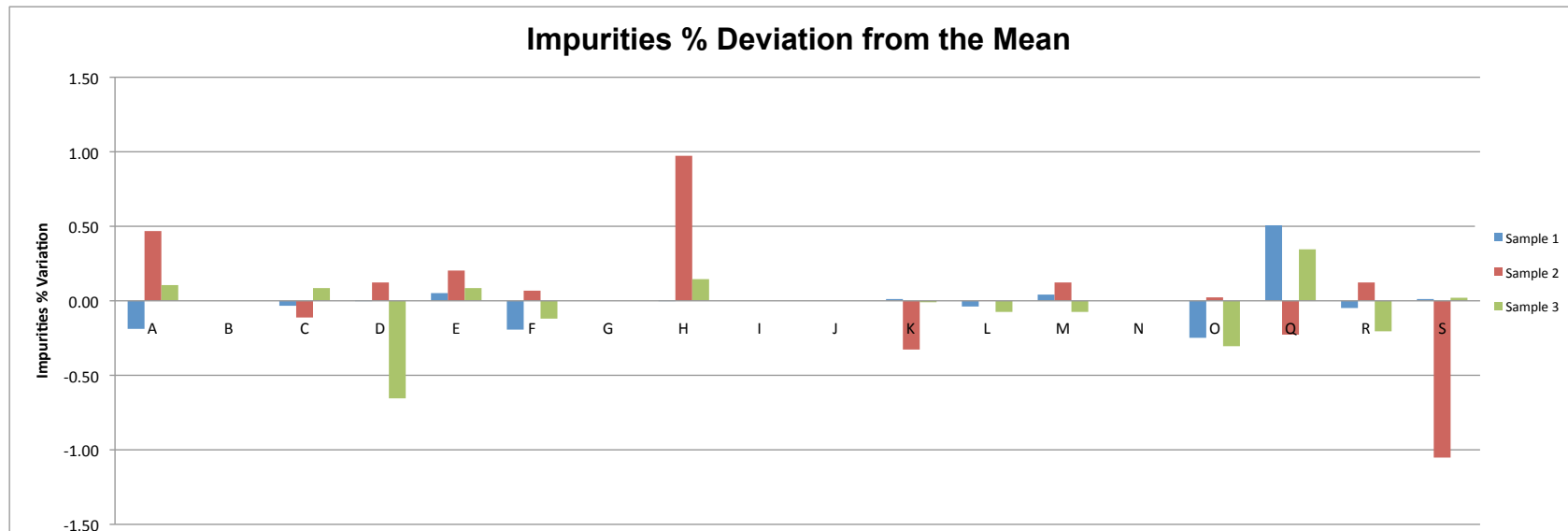
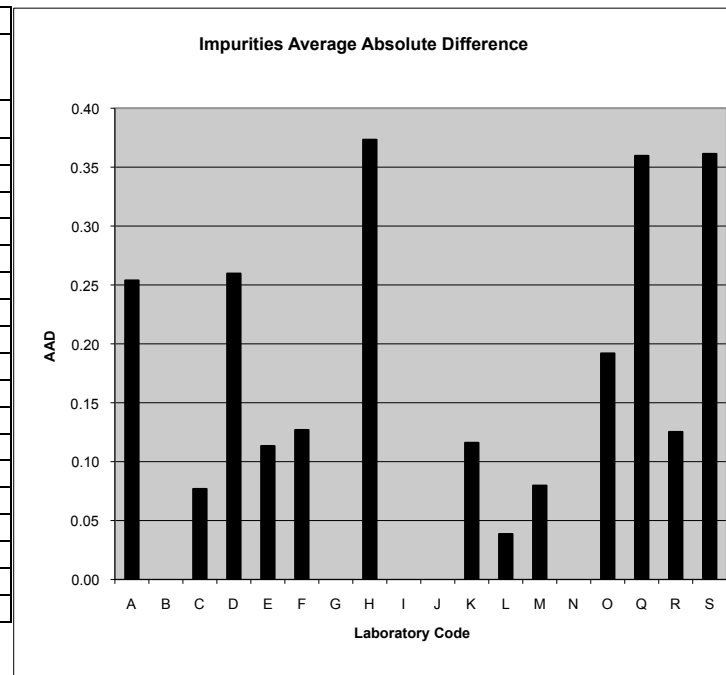
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	68.25	0.71	68.75	0.01	66.75	0.08	0.27	0.27
B								
C	68.50	0.96	69.50	0.76	67.56	0.89	0.87	0.87
D	67.00	-0.54	68.50	-0.24	67.25	0.58	-0.06	0.45
E	67.75	0.21	69.09	0.35	66.92	0.24	0.27	0.27
F								
G								
H	66.80	-0.74	66.60	-2.14	66.00	-0.67	-1.18	1.18
I								
J								
K	66.70	-0.84	68.10	-0.64	66.70	0.03	-0.48	0.50
L	67.42	-0.12	68.21	-0.53	66.46	-0.21	-0.29	0.29
M								
N								
O	67.77	0.23	68.94	0.20	66.64	-0.03	0.14	0.16
Q	68.00	0.46	68.50	-0.24	65.70	-0.97	-0.25	0.56
R	67.03	-0.51	68.23	-0.51	66.30	-0.37	-0.46	0.46
S	67.54	0.00	69.55	0.81	67.10	0.43	0.70	0.70
MEAN	67.54		68.74		66.67			0.52
STDEV	0.65		0.52		0.54			



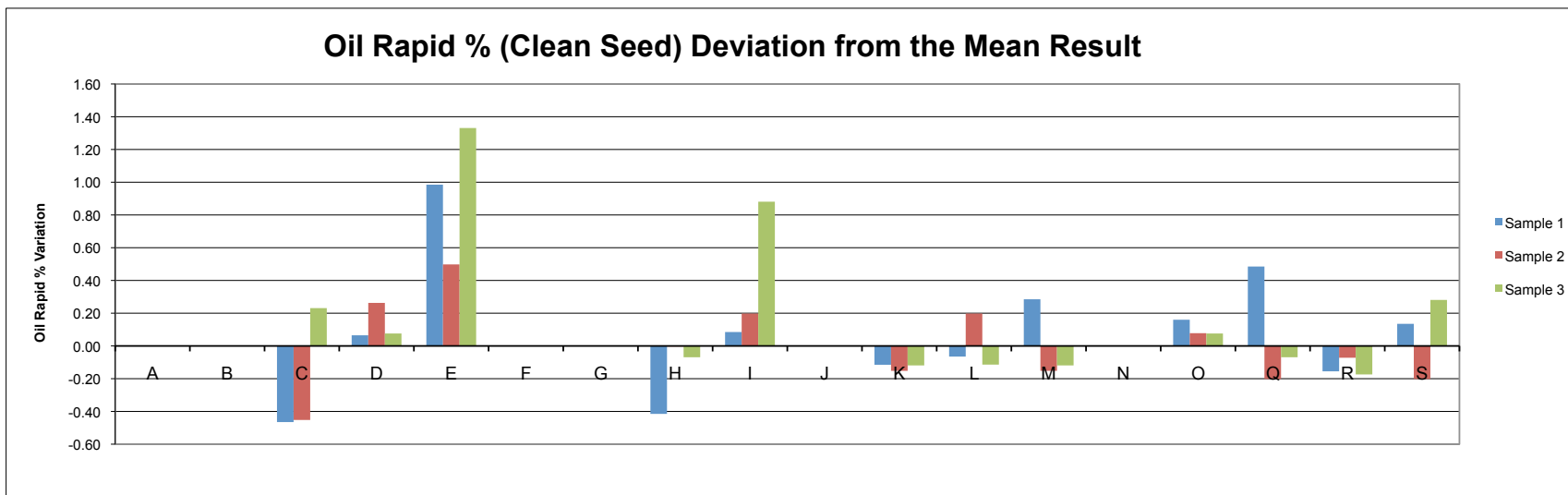
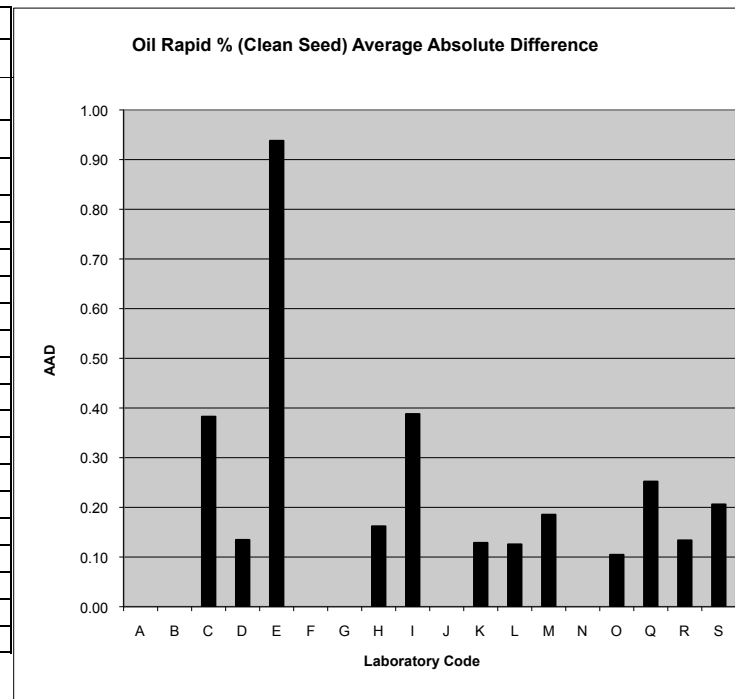
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	0.56	-0.19	2.15	0.47	1.11	0.11	0.13	0.25
B								
C	0.72	-0.03	1.57	-0.11	1.09	0.09	-0.02	0.08
D	0.75	0.00	1.80	0.12	0.35	-0.65	-0.18	0.26
E	0.80	0.05	1.88	0.20	1.09	0.09	0.11	0.11
F	0.56	-0.19	1.75	0.07	0.89	-0.12	-0.08	0.13
G								
H	0.75	0.00	2.65	0.97	1.15	0.15	0.37	0.37
I								
J								
K	0.76	0.01	1.35	-0.33	1.00	-0.01	-0.11	0.12
L	0.71	-0.04	1.68	0.00	0.93	-0.07	-0.04	0.04
M	0.79	0.04	1.80	0.12	0.93	-0.07	0.03	0.08
N								
O	0.50	-0.25	1.70	0.02	0.70	-0.30	-0.18	0.19
Q	1.26	0.51	1.45	-0.23	1.35	0.35	0.21	0.36
R	0.70	-0.05	1.80	0.12	0.80	-0.20	-0.04	0.13
S	0.76	0.01	0.63	-1.05	1.03	0.02	-0.34	0.36
MEAN	0.75		1.68		1.00			0.19
STDEV	0.03		0.17		0.17			



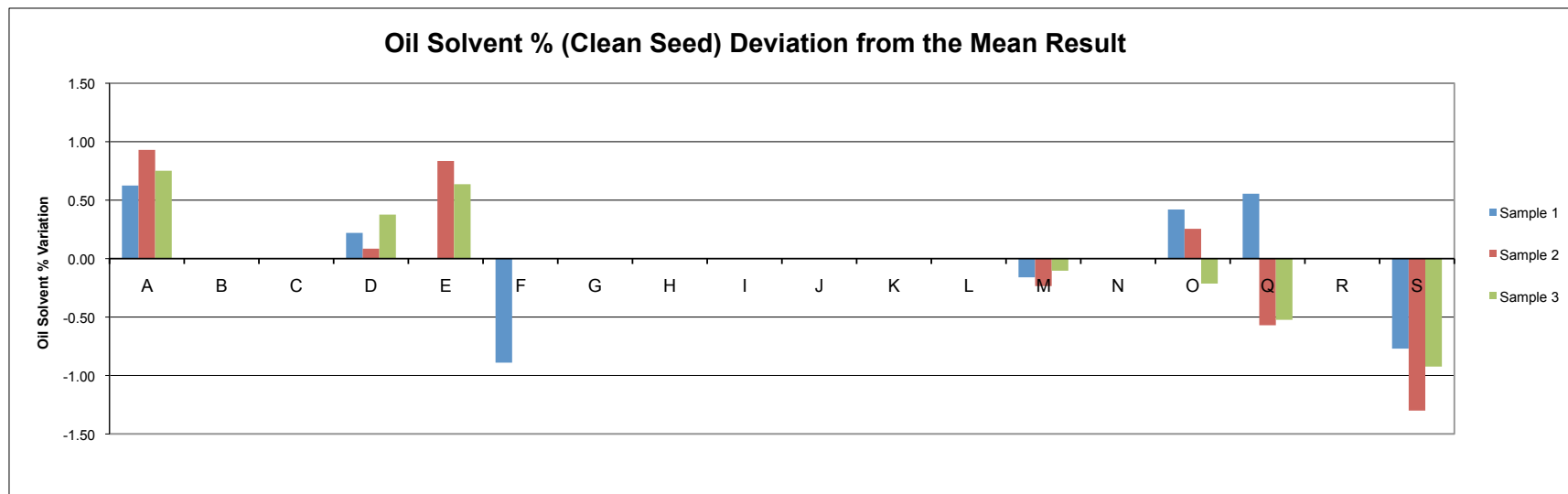
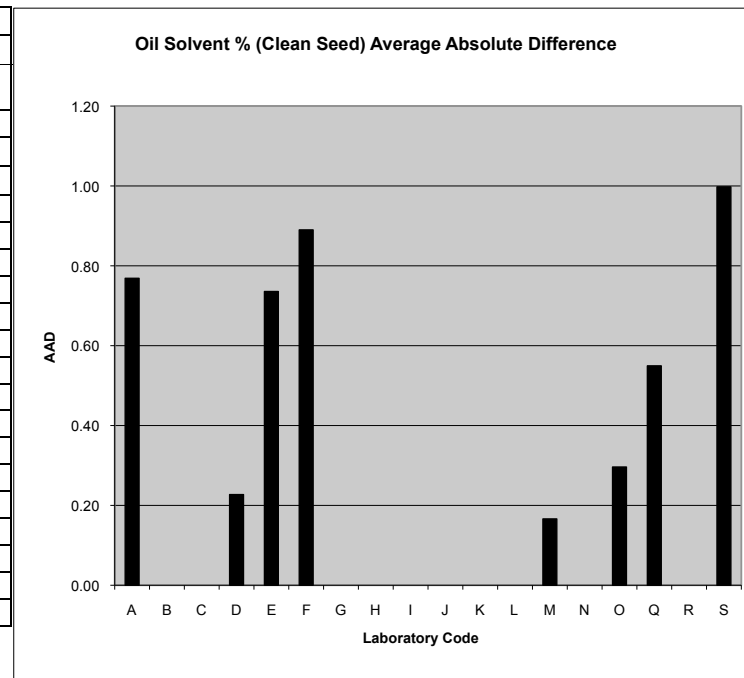
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	46.70	-0.46	41.70	-0.45	44.85	0.23	-0.23	0.38
D	47.23	0.07	42.42	0.26	44.70	0.08	0.13	0.13
E	48.15	0.99	42.65	0.50	45.95	1.33	0.94	0.94
F								
G								
H	46.75	-0.41	42.15	0.00	44.55	-0.07	-0.16	0.16
I	47.25	0.09	42.35	0.20	45.50	0.88	0.39	0.39
J								
K	47.05	-0.11	42.00	-0.15	44.50	-0.12	-0.13	0.13
L	47.10	-0.06	42.35	0.20	44.51	-0.11	0.01	0.13
M	47.45	0.29	42.00	-0.15	44.50	-0.12	0.00	0.19
N								
O	47.33	0.16	42.23	0.08	44.70	0.08	0.10	0.10
Q	47.65	0.49	41.95	-0.20	44.55	-0.07	0.07	0.25
R	47.01	-0.15	42.08	-0.07	44.45	-0.17	-0.13	0.13
S	47.30	0.14	41.95	-0.20	44.90	0.28	0.07	0.21
MEAN	47.17		42.15		44.62			0.26
STDEV	0.28		0.26		0.16			



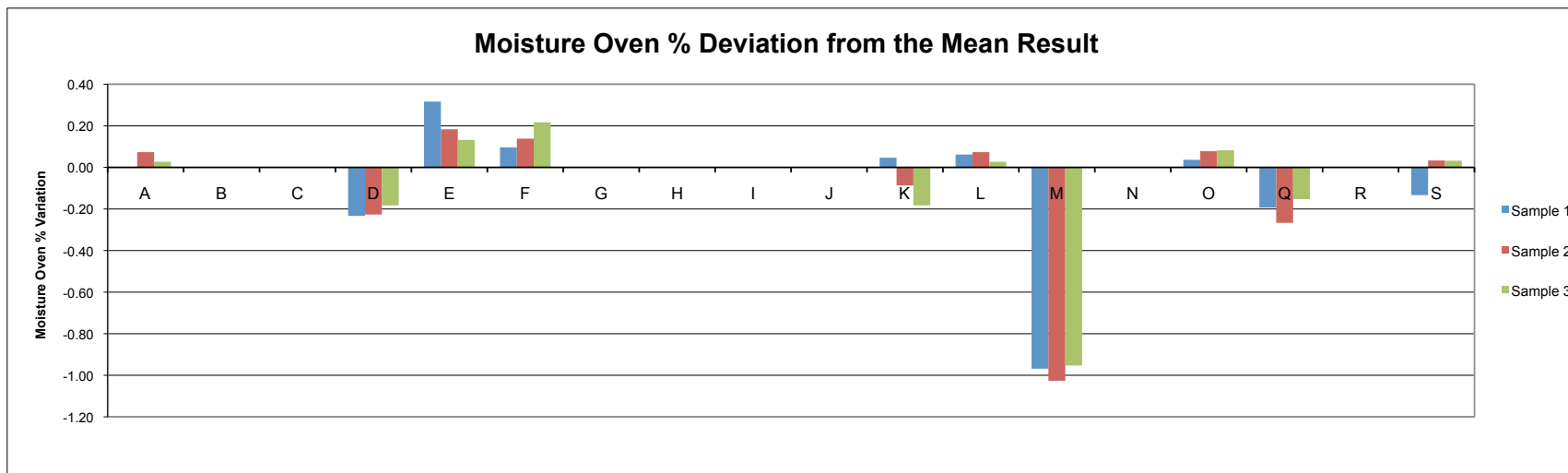
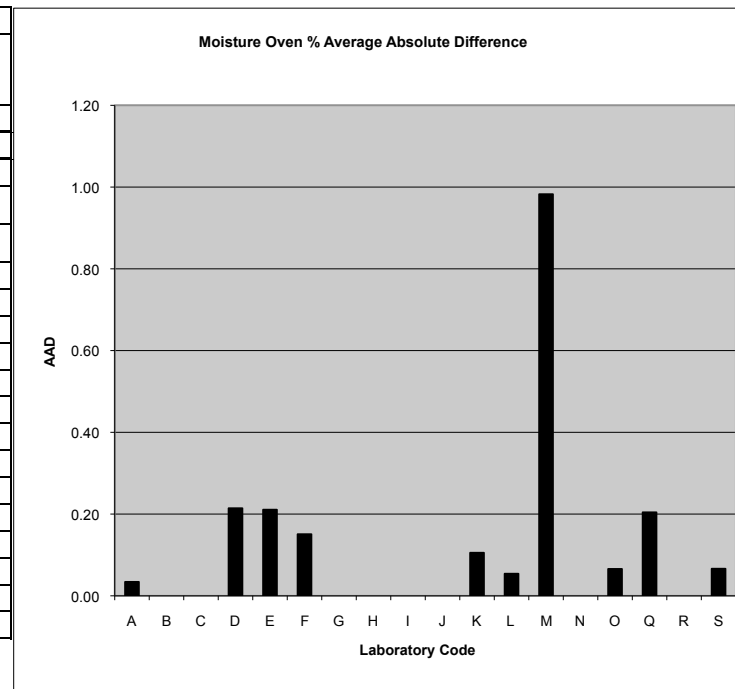
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	47.10	0.63	43.18	0.93	45.88	0.75	0.77	0.77
B								
C								
D	46.69	0.22	42.34	0.09	45.50	0.38	0.23	0.23
E			43.09	0.84	45.76	0.64	0.74	0.74
F	45.58	-0.89					-0.89	0.89
G								
H								
I								
J								
K								
L								
M	46.31	-0.16	42.02	-0.23	45.02	-0.10	-0.17	0.17
N								
O	46.89	0.42	42.51	0.26	44.91	-0.21	0.15	0.30
Q	47.03	0.56	41.68	-0.57	44.60	-0.52	-0.18	0.55
R								
S	45.70	-0.77	40.95	-1.30	44.20	-0.92	-1.00	1.00
MEAN	46.47		42.25		45.12			0.58
STDEV	0.62		0.79		0.62			



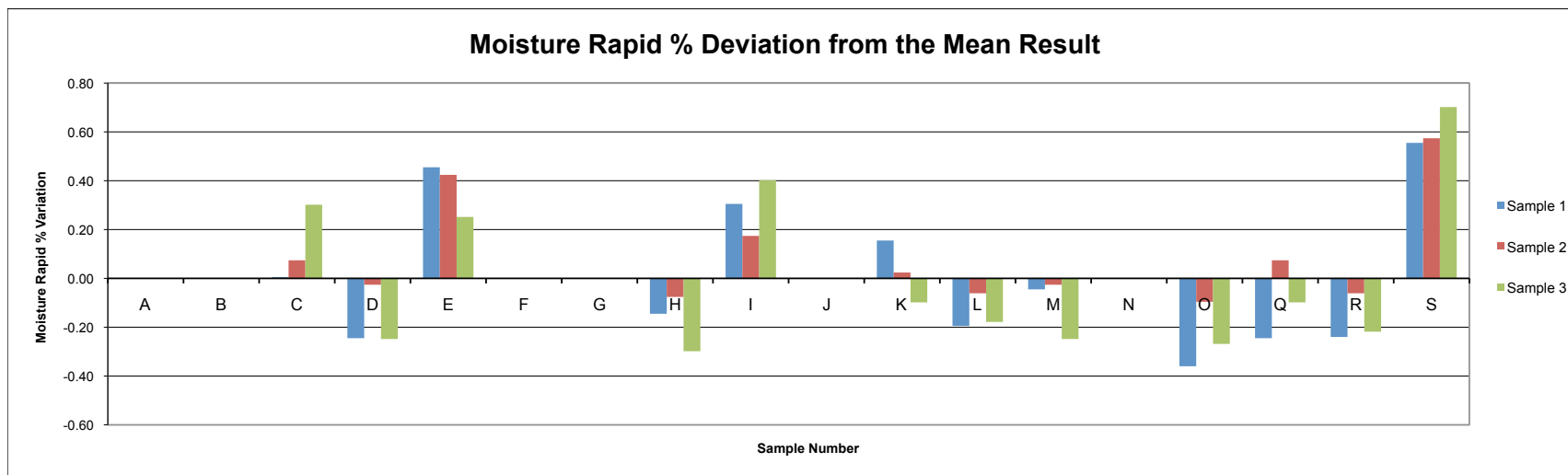
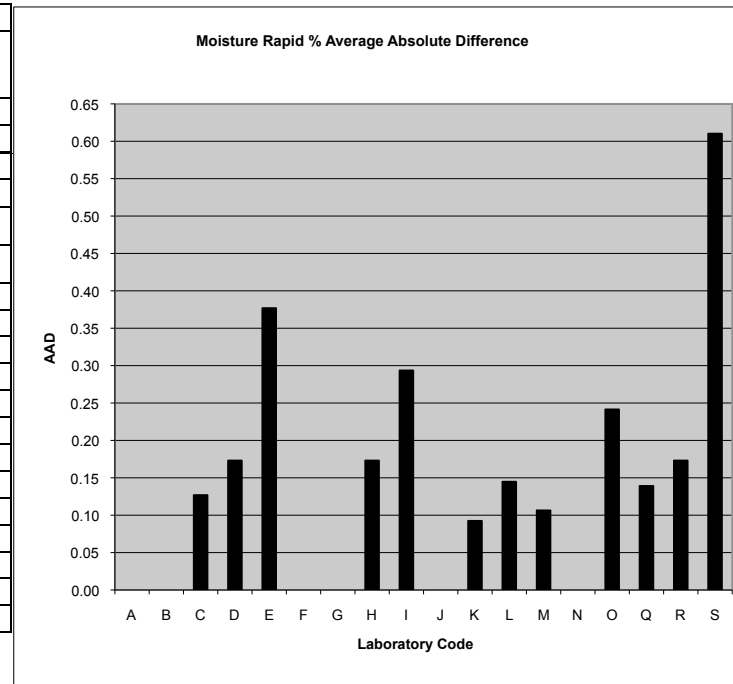
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	5.29	0.00	6.54	0.07	5.90	0.03	0.03	0.03
B								
C								
D	5.05	-0.23	6.24	-0.23	5.69	-0.18	-0.21	0.21
E	5.60	0.32	6.65	0.18	6.00	0.13	0.21	0.21
F	5.38	0.10	6.61	0.14	6.09	0.22	0.15	0.15
G								
H								
I								
J								
K	5.33	0.05	6.38	-0.09	5.69	-0.18	-0.07	0.11
L	5.35	0.06	6.54	0.07	5.90	0.03	0.05	0.05
M	4.32	-0.97	5.44	-1.03	4.92	-0.95	-0.98	0.98
N								
O	5.32	0.04	6.55	0.08	5.95	0.08	0.07	0.07
Q	5.09	-0.19	6.20	-0.27	5.72	-0.15	-0.20	0.20
R								
S	5.15	-0.13	6.50	0.03	5.90	0.03	-0.02	0.07
MEAN	5.28		6.47		5.87			0.21
STDEV	0.17		0.16		0.14			



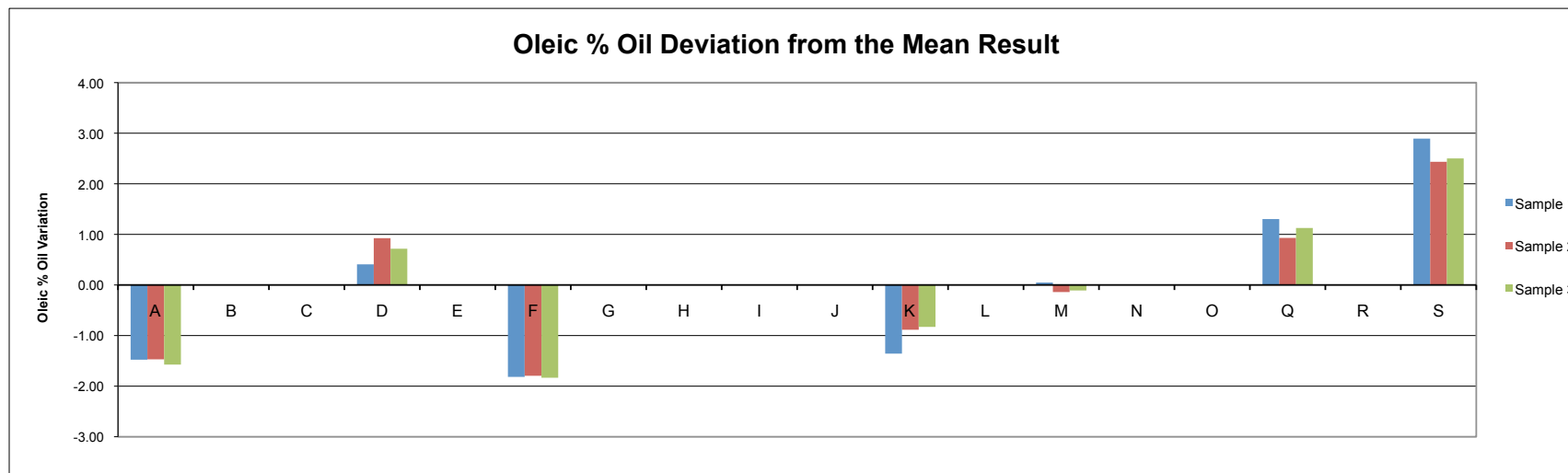
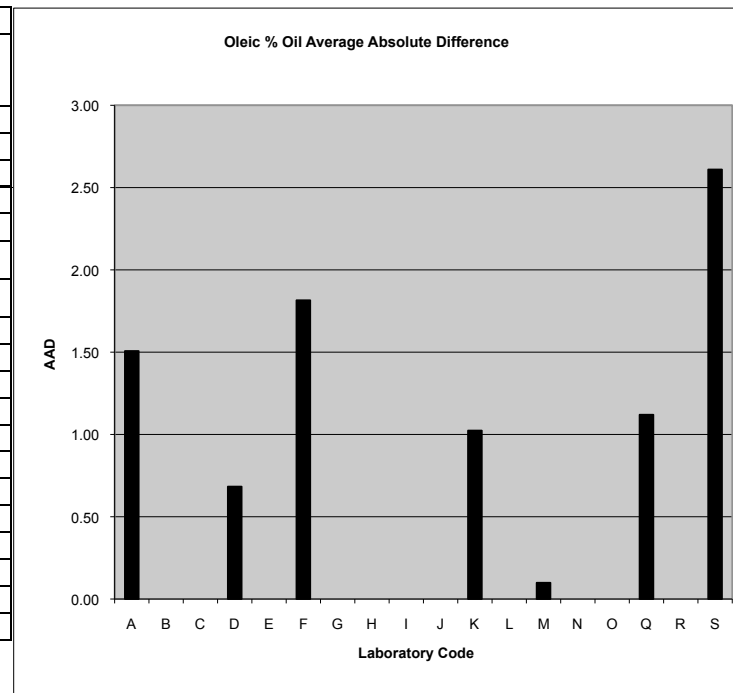
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	5.05	0.00	6.40	0.07	6.05	0.30	0.13	0.13
D	4.80	-0.25	6.30	-0.03	5.50	-0.25	-0.17	0.17
E	5.50	0.45	6.75	0.42	6.00	0.25	0.38	0.38
F								
G								
H	4.90	-0.15	6.25	-0.08	5.45	-0.30	-0.17	0.17
I	5.35	0.30	6.50	0.17	6.15	0.40	0.29	0.29
J								
K	5.20	0.15	6.35	0.02	5.65	-0.10	0.03	0.09
L	4.85	-0.20	6.27	-0.06	5.57	-0.18	-0.14	0.14
M	5.00	-0.05	6.30	-0.03	5.50	-0.25	-0.11	0.11
N								
O	4.69	-0.36	6.23	-0.10	5.48	-0.27	-0.24	0.24
Q	4.80	-0.25	6.40	0.07	5.65	-0.10	-0.09	0.14
R	4.81	-0.24	6.27	-0.06	5.53	-0.22	-0.17	0.17
S	5.60	0.55	6.90	0.57	6.45	0.70	0.61	0.61
MEAN	5.05		6.33		5.75			0.22
STDEV	0.30		0.09		0.33			



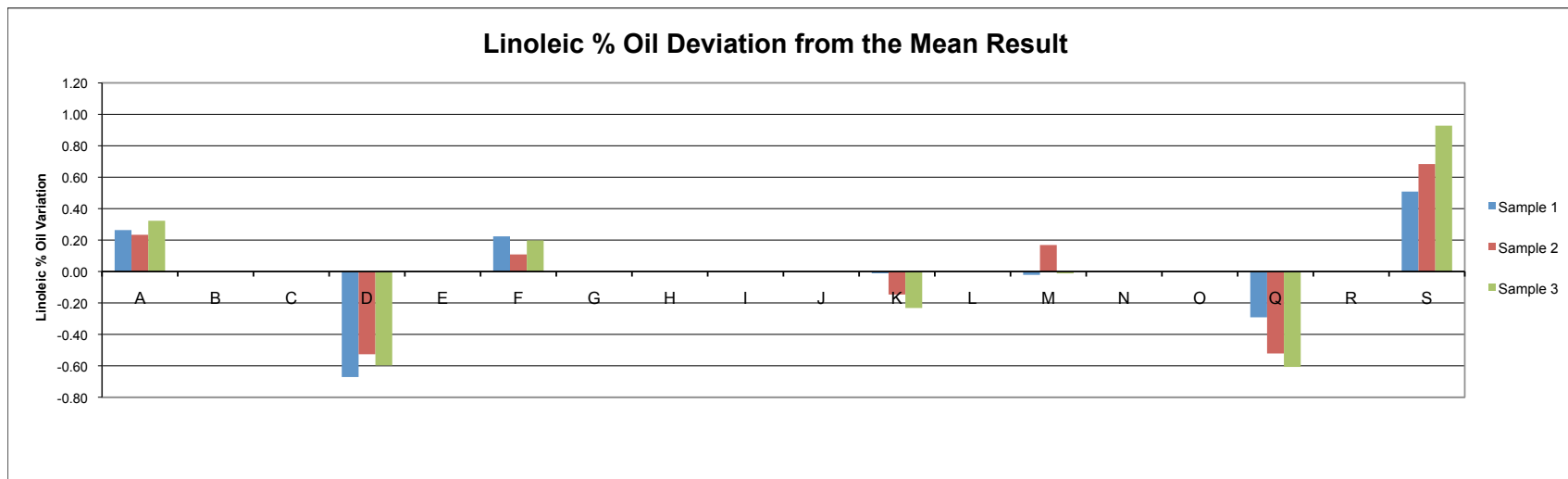
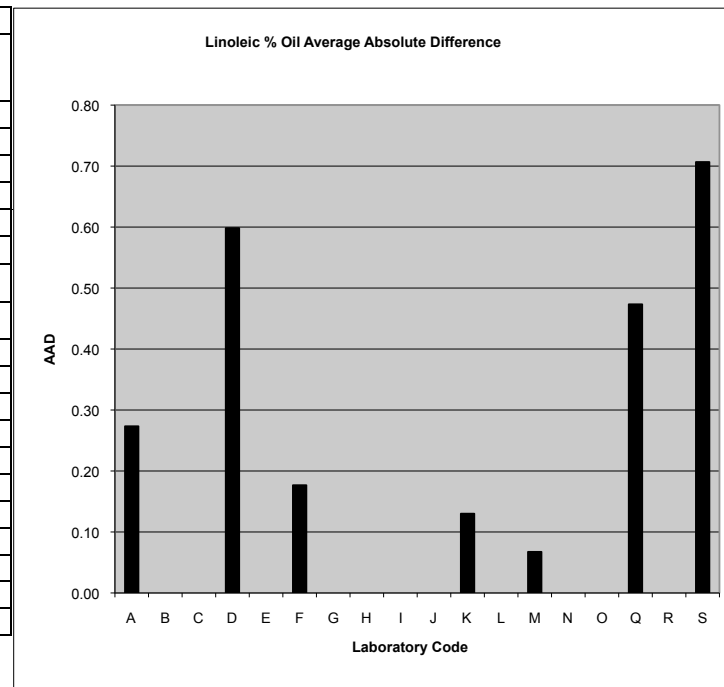
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	70.28	-1.48	61.95	-1.47	61.58	-1.57	-1.51	1.51
B								
C								
D	72.17	0.41	64.34	0.93	63.87	0.72	0.68	0.68
E								
F	69.94	-1.82	61.62	-1.80	61.32	-1.83	-1.82	1.82
G								
H								
I								
J								
K	70.40	-1.36	62.53	-0.88	62.32	-0.83	-1.02	1.02
L								
M	71.81	0.05	63.28	-0.14	63.04	-0.11	-0.07	0.10
N								
O								
Q	73.06	1.30	64.35	0.93	64.28	1.13	1.12	1.12
R								
S	74.65	2.89	65.85	2.44	65.65	2.50	2.61	2.61
MEAN	71.76		63.42		63.15			1.27
STDEV	1.71		1.52		1.53			



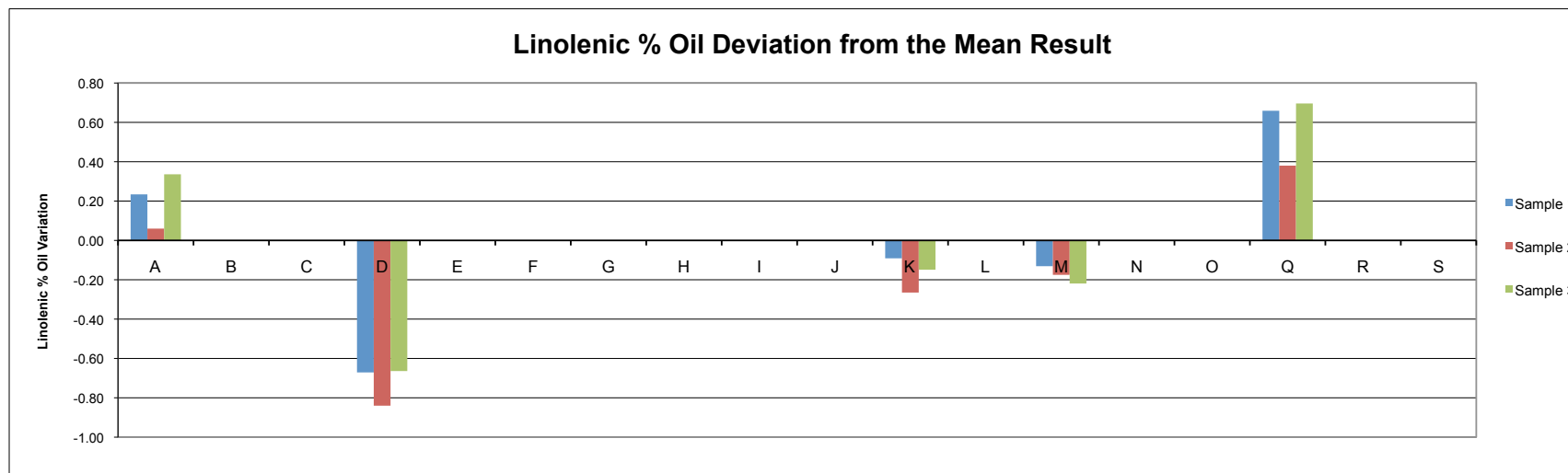
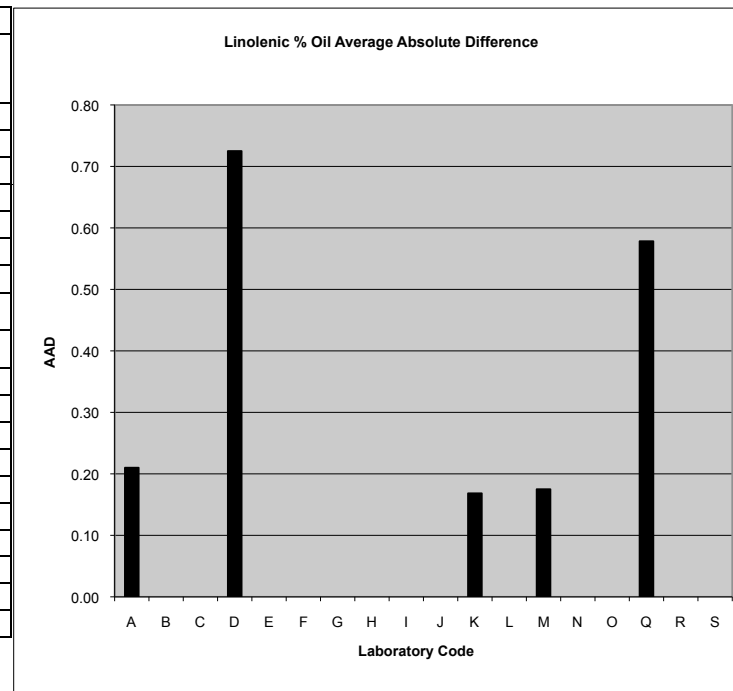
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Linoleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	13.91	0.26	19.00	0.23	20.65	0.32	0.27	0.27
B								
C								
D	12.97	-0.67	18.24	-0.53	19.73	-0.60	-0.60	0.60
E								
F	13.87	0.22	18.88	0.11	20.52	0.20	0.18	0.18
G								
H								
I								
J								
K	13.63	-0.01	18.62	-0.15	20.09	-0.23	-0.13	0.13
L								
M	13.62	-0.02	18.94	0.17	20.31	-0.01	0.04	0.07
N								
O								
Q	13.35	-0.29	18.25	-0.52	19.72	-0.61	-0.47	0.47
R								
S	14.15	0.51	19.45	0.68	21.25	0.93	0.71	0.71
MEAN	13.64		18.77		20.32			0.35
STDEV	0.39		0.43		0.55			



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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	7.08	0.23	9.85	0.06	9.93	0.34	0.21	0.21
B								
C								
D	6.17	-0.67	8.95	-0.84	8.93	-0.66	-0.73	0.73
E								
F								
G								
H								
I								
J								
K	6.75	-0.09	9.53	-0.26	9.45	-0.15	-0.17	0.17
L								
M	6.71	-0.13	9.62	-0.18	9.38	-0.22	-0.18	0.18
N								
O								
Q	7.50	0.66	10.17	0.38	10.29	0.70	0.58	0.58
R								
S								
MEAN	6.84		9.79		9.59			0.37
STDEV	0.49		0.29		0.53			



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

Free Fatty Acid % oil Average Absolute Difference
