



**2015 AOF Test Check Program
Monthly Report
Round 6
September – 2015
01/09/2015 – 01/10/2015**

Result Receival Dates

Lab Code	Date
A	29/09/2015
B	N/A
C	17/09/2015
D	21/09/2015
E	30/09/2015
F	N/A
G	N/A
H	11/09/2015
I	25/09/2015
J	30/09/2015
K	18/09/2015
L	09/09/2015
M	01/10/2015
N	14/09/2015
O	29/09/2015
Q	30/09/2015
R	11/09/2015
S	29/09/2015

Discussion of Results

Test Weight

Sample 1 – One outlier was identified for Lab **K** with a 24.32 kg/HL discrepancy from the lower quartile limit (63.10 kg/HL).

Sample 2 – One outlier was identified for Lab **K** with a 23.54 kg/HL discrepancy from the lower quartile limit (64.00 kg/HL).

Sample 3 – One outlier was identified for Lab **K** with a 25.67 kg/HL discrepancy from the lower quartile limit (64.13 kg/HL).



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Impurities

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 **J** with a 0.02 of a percent discrepancy from the lower quartile limit (0.59%).

Oil Rapid

Sample 1 – No outliers were observed for this test.

Sample 2 – No outliers were observed for this test.

Sample 3 – Two Outliers were identified for Lab **I** and **J**. Lab **I** was 0.33 of a percent from the upper quartile limit (44.53%). Lab **J** was 0.42 of a percent discrepancy from the lower quartile limit (43.53%).

Oil Solvent Extraction

Sample 1 – No outliers were observed for this test.

Sample 2 – Two Outliers were identified for Lab **D** and **M**. Lab **D** was 5.57 of a percent from the upper quartile limit (39.07%). Lab **M** was 1.41 of a percent discrepancy from the lower quartile limit (36.62%).

Sample 3 – One outlier was identified for Lab **M** with a 1.86 of a percent discrepancy from the lower quartile limit (37.77%).

Reproducibility limit of the extraction method ISO-659:2009 is $R = 1.54$ for oil content at ~43% in canola. Lab **D** showed outlying results which indicate a switch of samples 2 and 3. The observable difference of Lab **M** from the mean is 1.41% and 1.86% for samples 2 and 3 respectively. This indicates that Lab **M** - sample 2 is within ISO parameters while Lab **M** - sample 3 remains significantly different from the average.

6 of the 8 labs participating within the scope of the standard means removal of results submitted by the labs working outside the scope maintain the numbers to contribute to a statistically significant outcome. Removal of the labs increases variability, but the average remains relatively unaffected for sample 2, however changes significantly for sample 3. The increment in variability and change in average is not enough to encompass the outlying laboratory, and Lab **M** is still statistically highlighted as an outlier from the quartile constraints.



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Moisture Oven

Sample 1 – Outliers were identified for Lab **D** and **K** which were 0.09 and 0.06 of a percent discrepancy, respectively, from the lower quartile limit (5.45%).

Sample 2 – One outlier was identified for Lab **J** with a 0.14 of a percent discrepancy from the upper quartile limit (8.43%).

Sample 3 – Outliers were identified for Lab **D** and **K** which were 0.01 and 0.03 of a percent discrepancy, respectively, from the lower quartile limit (6.64%).

Moisture Rapid

Sample 1 – No outliers were observed for this test.

Sample 2 – Outliers were identified for Lab **J** and **M** which were a 0.04 and 0.55 of a percent discrepancy, respectively, from the lower quartile limit (7.4%).

Sample 3 – No outliers were observed for this test.

Oleic Oil

Sample 1 – One outlier was identified for Lab **A** with a 0.59 of a percent discrepancy from the lower quartile limit (63.05%).

Sample 2 – One outlier was identified for Lab **K** with a 2.12 of a percent discrepancy from the upper quartile limit (67.82%).

Sample 3 – Outliers were identified for Lab **A** and **K**. Lab **A** was 0.98 of a percent discrepancy from the lower quartile limit (62.57%). Lab **K** was 0.41 of a percent discrepancy from the upper quartile limit (64.79%).

Linoleic Oil

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **M** with a 0.55 of a percent discrepancy from the lower quartile limit (16.28%).

Sample 3 – No outliers were observed for this test.



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Linolenic Oil

There were no observable outliers for this analysis for this round; however participation is minimal and no significant observations can be made. There is a large variation between results.

Free Fatty Acid

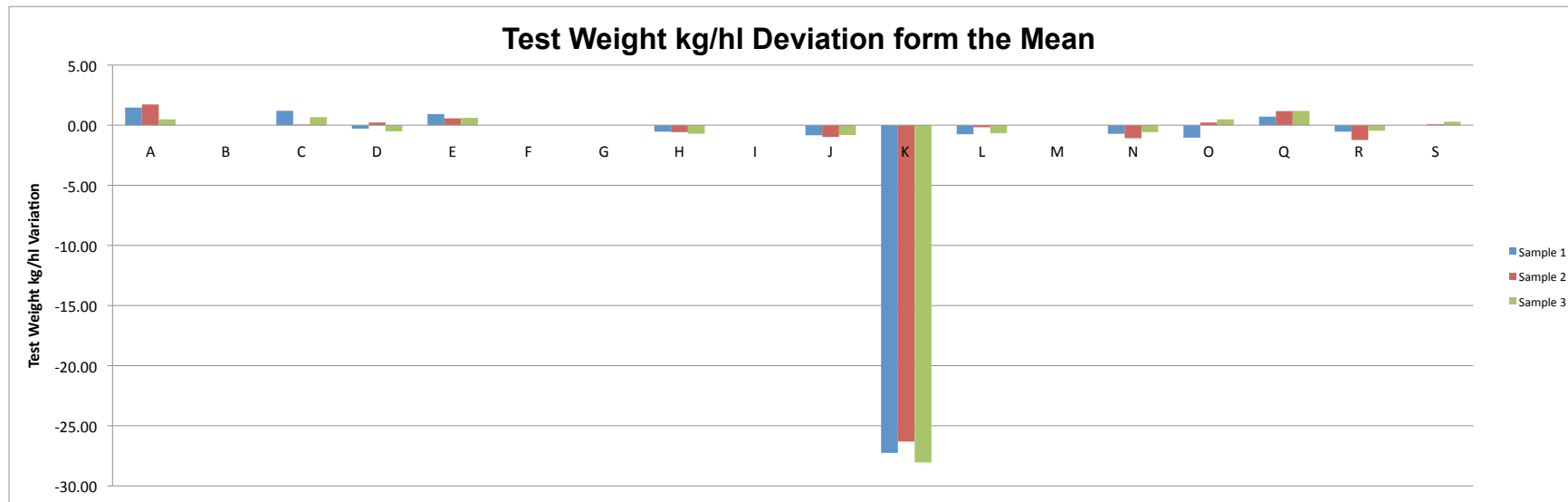
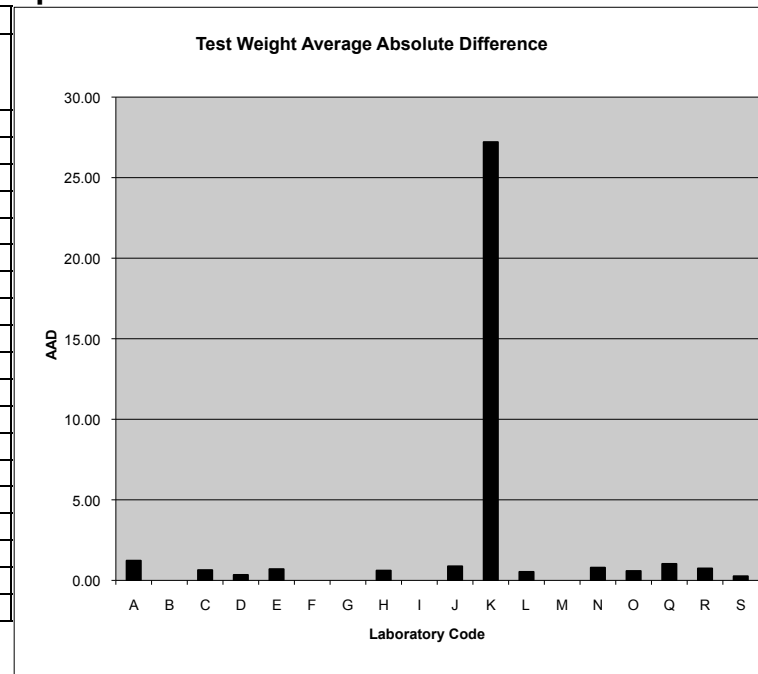
Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **M** with a 3.62 of a percent discrepancy from the upper quartile limit (0.82%).

Sample 3 – No outliers were observed for this test.

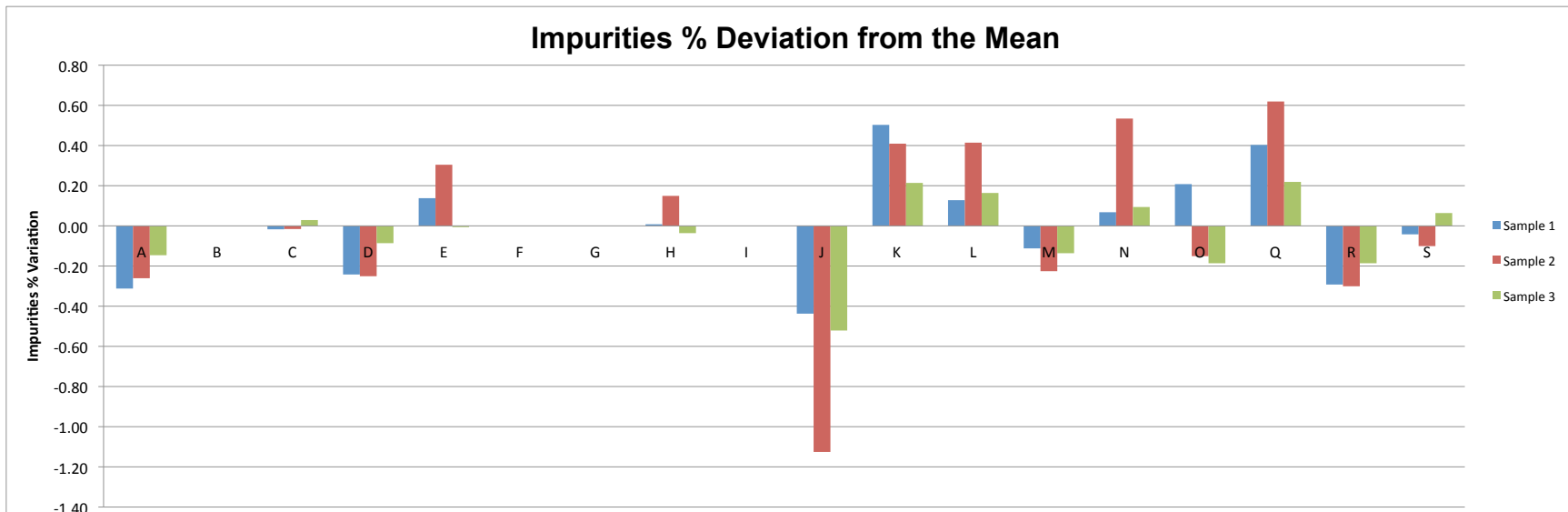
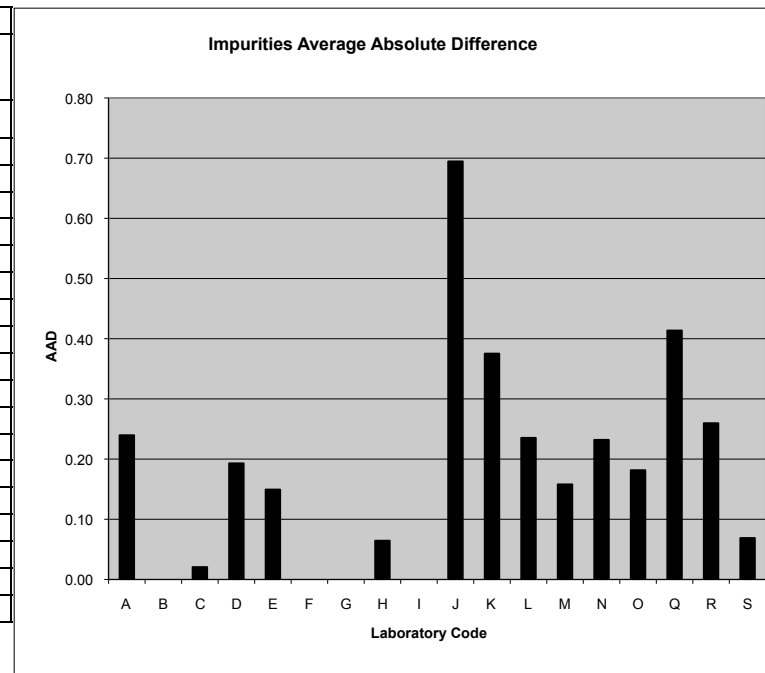
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Test Weight kg/hl								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	67.50	1.46	68.50	1.72	67.00	0.49	1.22	1.22
B								
C	67.24	1.20	66.83	0.05	67.18	0.67	0.64	0.64
D	65.75	-0.29	67.00	0.22	66.00	-0.51	-0.19	0.34
E	66.96	0.92	67.35	0.57	67.12	0.61	0.70	0.70
F								
G								
H	65.50	-0.54	66.20	-0.58	65.80	-0.71	-0.61	0.61
I								
J	65.20	-0.84	65.80	-0.98	65.70	-0.81	-0.88	0.88
K	38.78	-27.26	40.46	-26.32	38.46	-28.05	-27.21	27.21
L	65.29	-0.75	66.61	-0.17	65.85	-0.66	-0.53	0.53
M								
N	65.32	-0.72	65.70	-1.08	65.94	-0.58	-0.79	0.79
O	65.00	-1.04	67.00	0.22	67.00	0.49	-0.11	0.58
Q	66.75	0.71	67.95	1.17	67.70	1.19	1.02	1.02
R	65.50	-0.54	65.55	-1.23	66.05	-0.46	-0.74	0.74
S	66.04	0.00	66.85	0.07	66.80	0.29	0.26	0.26
MEAN	66.04		66.78		66.51			2.73
STDEV	0.89		0.89		0.69			



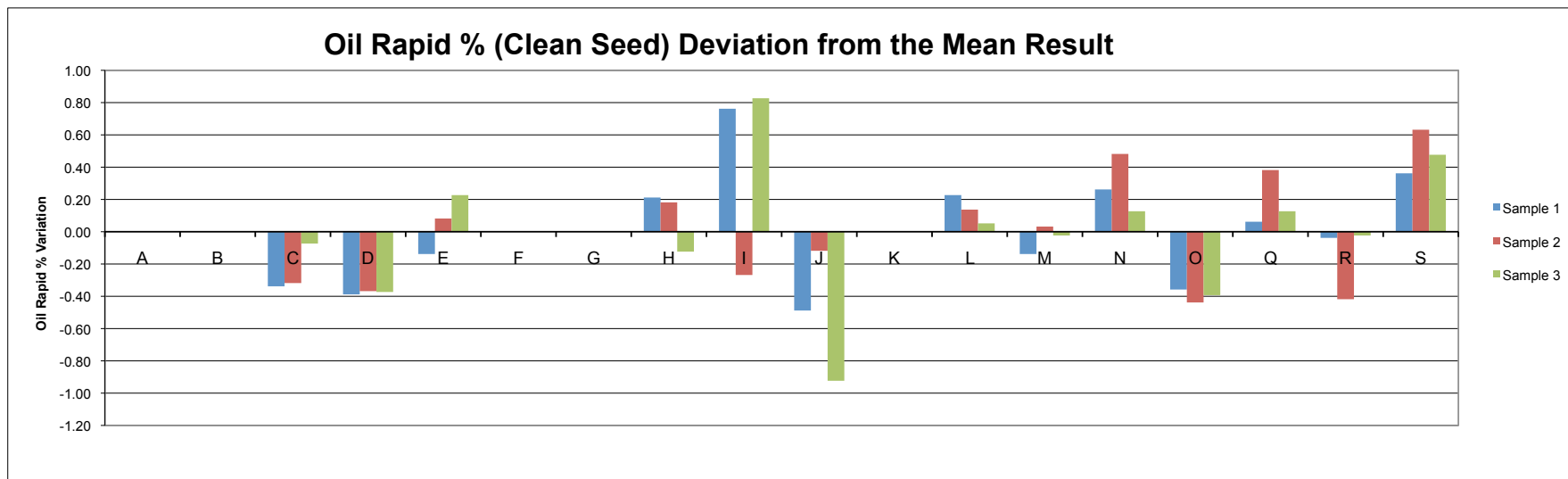
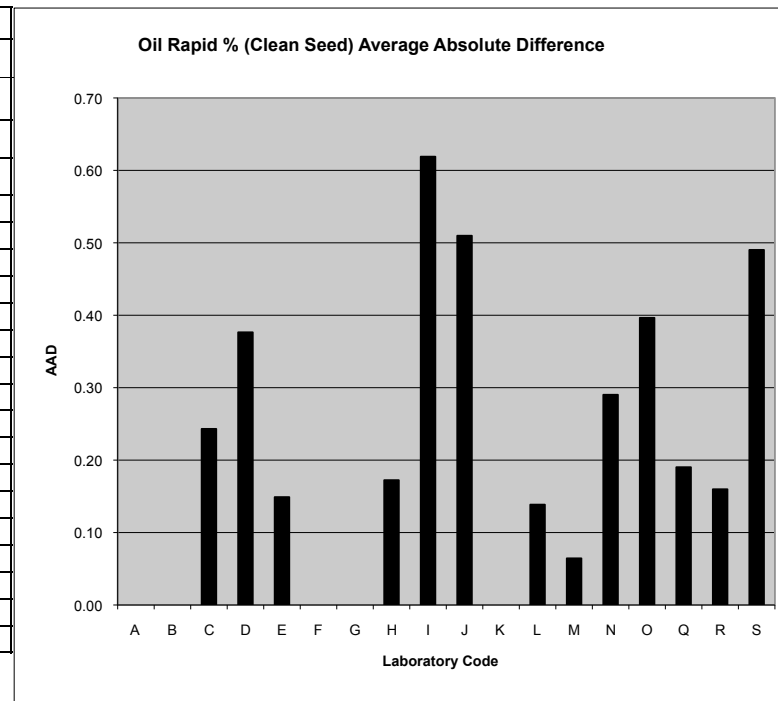
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	0.98	-0.31	1.89	-0.26	0.94	-0.15	-0.24	0.24
B								
C	1.28	-0.02	2.14	-0.02	1.12	0.03	0.00	0.02
D	1.05	-0.24	1.90	-0.25	1.00	-0.09	-0.19	0.19
E	1.43	0.14	2.46	0.30	1.08	-0.01	0.15	0.15
F								
G								
H	1.30	0.01	2.30	0.15	1.05	-0.04	0.04	0.06
I								
J	0.86	-0.44	1.03	-1.13	0.57	-0.52	-0.69	0.69
K	1.80	0.50	2.56	0.41	1.30	0.21	0.38	0.38
L	1.42	0.13	2.57	0.41	1.25	0.16	0.24	0.24
M	1.18	-0.11	1.93	-0.23	0.95	-0.14	-0.16	0.16
N	1.36	0.07	2.69	0.53	1.18	0.09	0.23	0.23
O	1.50	0.21	2.00	-0.15	0.90	-0.19	-0.04	0.18
Q	1.70	0.40	2.77	0.62	1.31	0.22	0.41	0.41
R	1.00	-0.29	1.85	-0.30	0.90	-0.19	-0.26	0.26
S	1.25	-0.04	2.05	-0.10	1.15	0.06	-0.03	0.07
MEAN	1.29		2.15		1.09			0.23
STDEV	0.27		0.46		0.14			



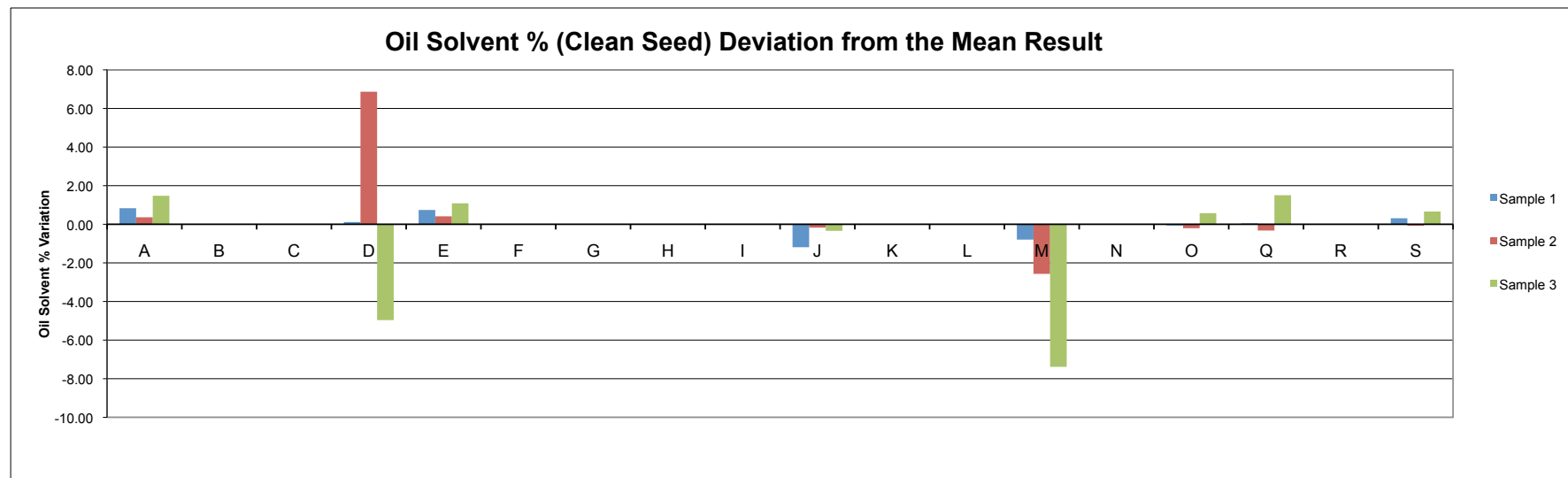
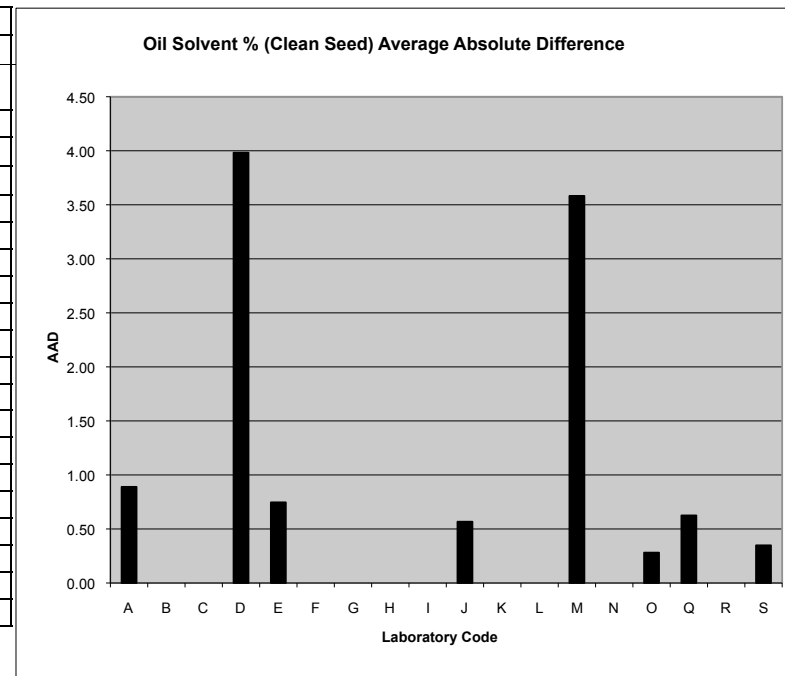
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	45.60	-0.34	37.40	-0.32	43.95	-0.07	-0.24	0.24
D	45.55	-0.39	37.35	-0.37	43.65	-0.37	-0.38	0.38
E	45.80	-0.14	37.80	0.08	44.25	0.23	0.06	0.15
F								
G								
H	46.15	0.21	37.90	0.18	43.90	-0.12	0.09	0.17
I	46.70	0.76	37.45	-0.27	44.85	0.83	0.44	0.62
J	45.45	-0.49	37.60	-0.12	43.10	-0.92	-0.51	0.51
K								
L	46.17	0.23	37.86	0.14	44.08	0.05	0.14	0.14
M	45.80	-0.14	37.75	0.03	44.00	-0.02	-0.04	0.06
N	46.20	0.26	38.20	0.48	44.15	0.13	0.29	0.29
O	45.58	-0.36	37.28	-0.44	43.63	-0.39	-0.40	0.40
Q	46.00	0.06	38.10	0.38	44.15	0.13	0.19	0.19
R	45.90	-0.04	37.30	-0.42	44.00	-0.02	-0.16	0.16
S	46.30	0.36	38.35	0.63	44.50	0.48	0.49	0.49
MEAN	45.94		37.72		44.02			0.29
STDEV	0.36		0.36		0.25			



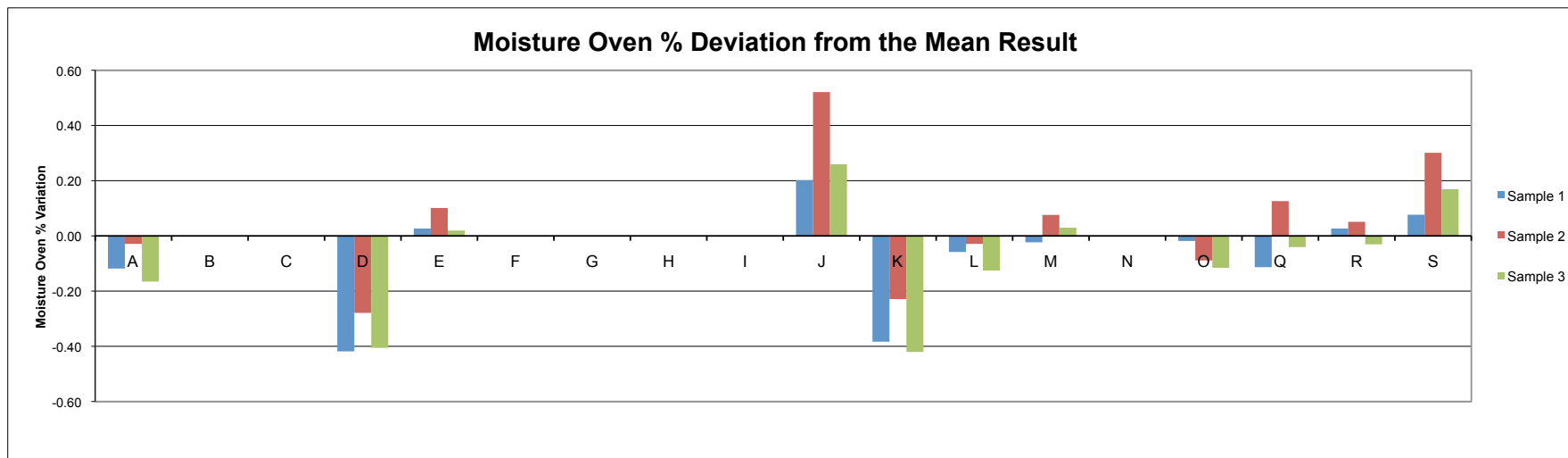
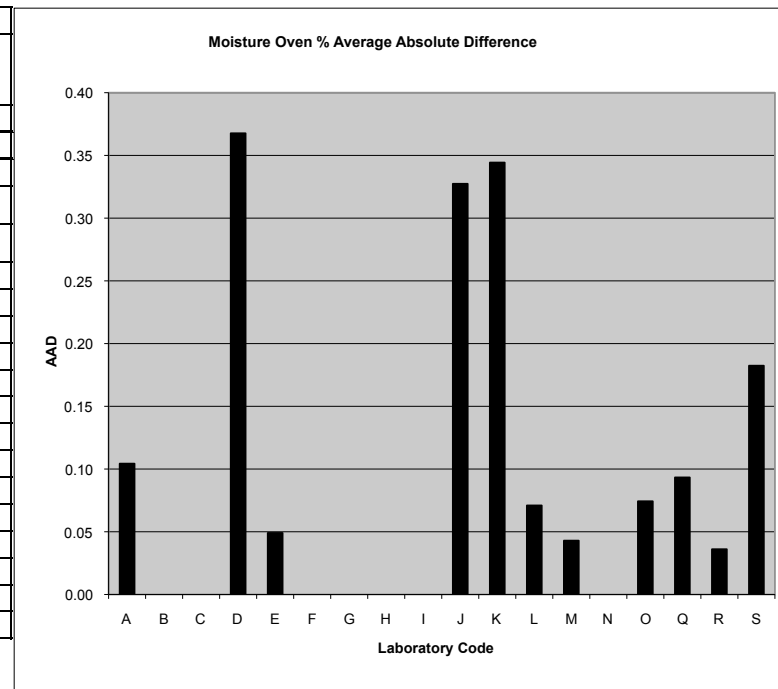
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	46.92	0.83	38.14	0.36	44.77	1.48	0.89	0.89
B								
C								
D	46.21	0.12	44.64	6.87	38.33	-4.96	0.67	3.98
E	46.83	0.74	38.19	0.41	44.38	1.09	0.75	0.75
F								
G								
H								
I								
J	44.90	-1.19	37.60	-0.17	42.95	-0.34	-0.57	0.57
K								
L								
M	45.30	-0.79	35.21	-2.57	35.91	-7.38	-3.58	3.58
N								
O	46.03	-0.06	37.57	-0.20	43.87	0.58	0.10	0.28
Q	46.14	0.05	37.45	-0.32	44.80	1.51	0.41	0.63
R								
S	46.40	0.31	37.70	-0.07	43.95	0.66	0.30	0.35
MEAN	46.09		37.77		43.29			1.38
STDEV	0.70		0.31		2.28			



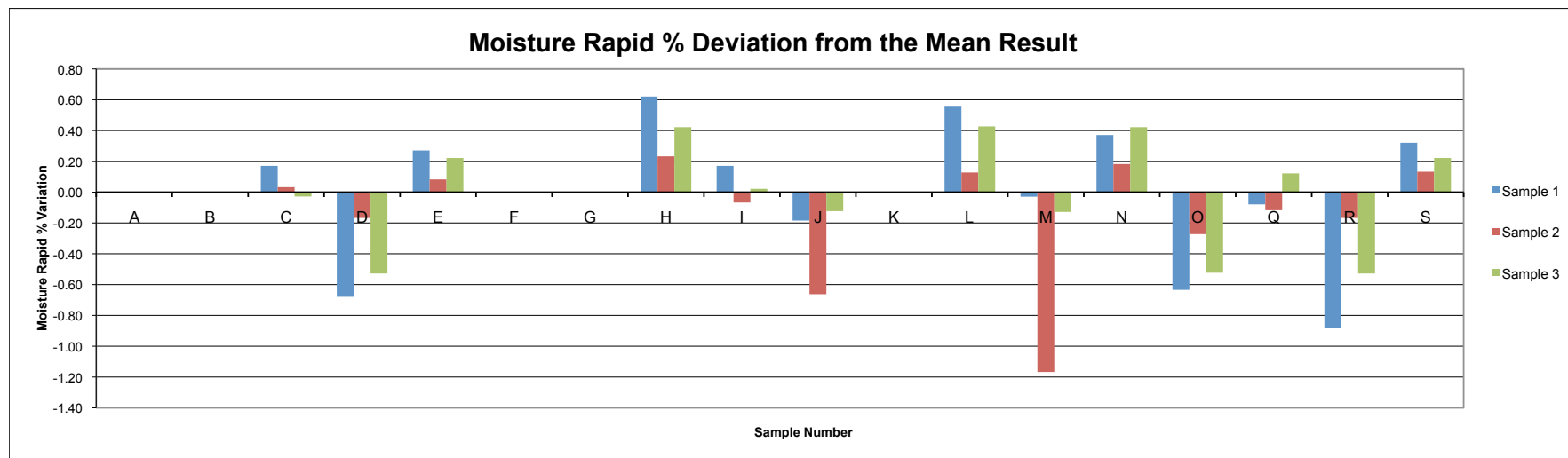
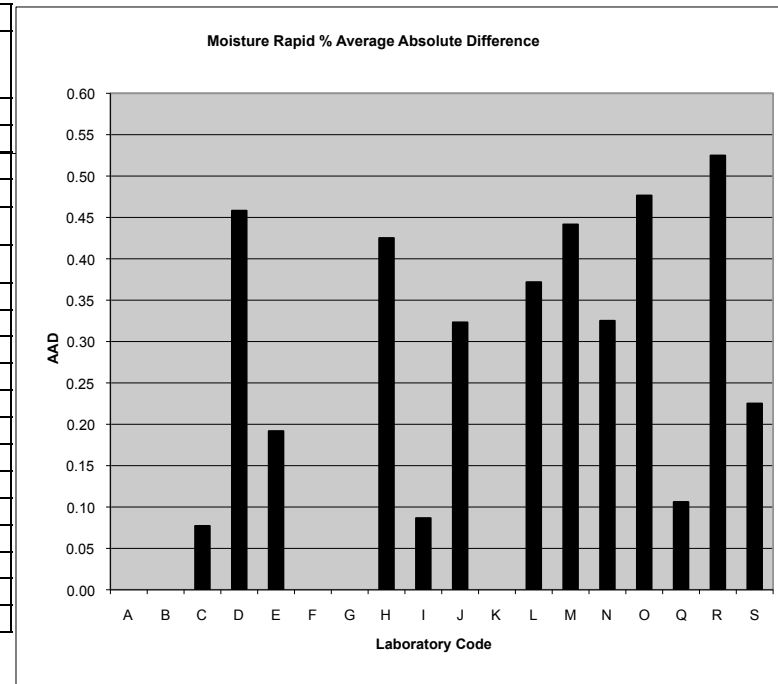
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	5.66	-0.12	8.02	-0.03	6.87	-0.17	-0.10	0.10
B								
C								
D	5.36	-0.42	7.77	-0.28	6.63	-0.41	-0.37	0.37
E	5.80	0.03	8.15	0.10	7.05	0.02	0.05	0.05
F								
G								
H								
I								
J	5.98	0.20	8.57	0.52	7.29	0.26	0.33	0.33
K	5.39	-0.38	7.82	-0.23	6.61	-0.42	-0.34	0.34
L	5.72	-0.06	8.02	-0.03	6.91	-0.13	-0.07	0.07
M	5.75	-0.02	8.13	0.08	7.06	0.03	0.03	0.04
N								
O	5.76	-0.02	7.96	-0.09	6.92	-0.12	-0.07	0.07
Q	5.66	-0.11	8.18	0.13	6.99	-0.04	-0.01	0.09
R	5.80	0.03	8.10	0.05	7.00	-0.03	0.02	0.04
S	5.85	0.08	8.35	0.30	7.20	0.17	0.18	0.18
MEAN	5.77		8.05		7.03			0.15
STDEV	0.10		0.17		0.14			



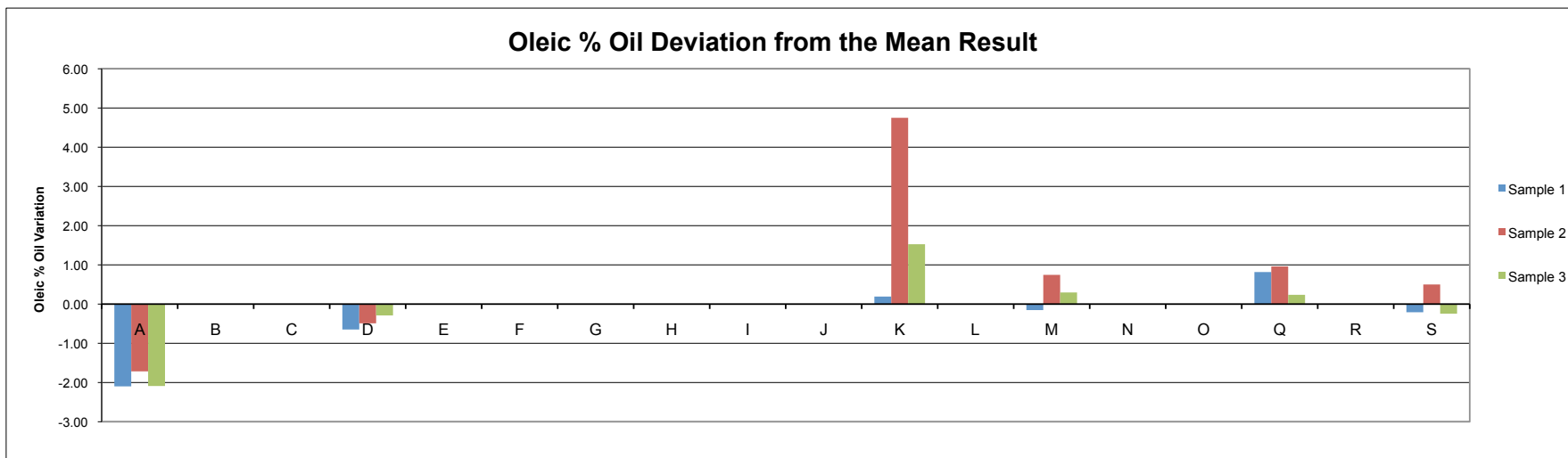
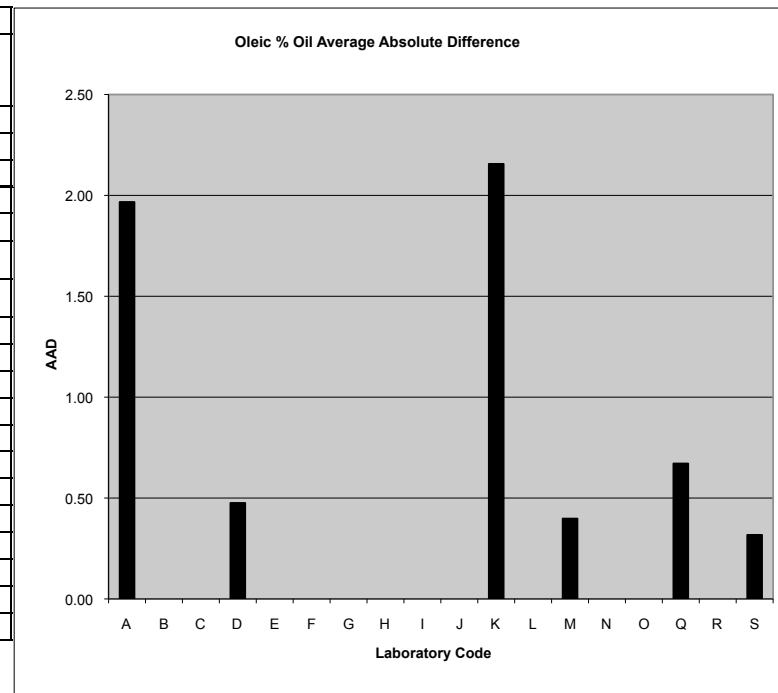
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	5.95	0.17	8.05	0.03	6.80	-0.03	0.06	0.08
D	5.10	-0.68	7.85	-0.17	6.30	-0.53	-0.46	0.46
E	6.05	0.27	8.10	0.08	7.05	0.22	0.19	0.19
F								
G								
H	6.40	0.62	8.25	0.23	7.25	0.42	0.43	0.43
I	5.95	0.17	7.95	-0.07	6.85	0.02	0.04	0.09
J	5.60	-0.18	7.36	-0.66	6.71	-0.12	-0.32	0.32
K								
L	6.34	0.56	8.15	0.13	7.26	0.43	0.37	0.37
M	5.75	-0.03	6.85	-1.17	6.70	-0.13	-0.44	0.44
N	6.15	0.37	8.20	0.18	7.25	0.42	0.33	0.33
O	5.15	-0.63	7.75	-0.27	6.31	-0.52	-0.48	0.48
Q	5.70	-0.08	7.90	-0.12	6.95	0.12	-0.02	0.11
R	4.90	-0.88	7.85	-0.17	6.30	-0.53	-0.52	0.52
S	6.10	0.32	8.15	0.13	7.05	0.22	0.23	0.23
MEAN	5.78		8.02		6.83			0.31
STDEV	0.48		0.17		0.36			



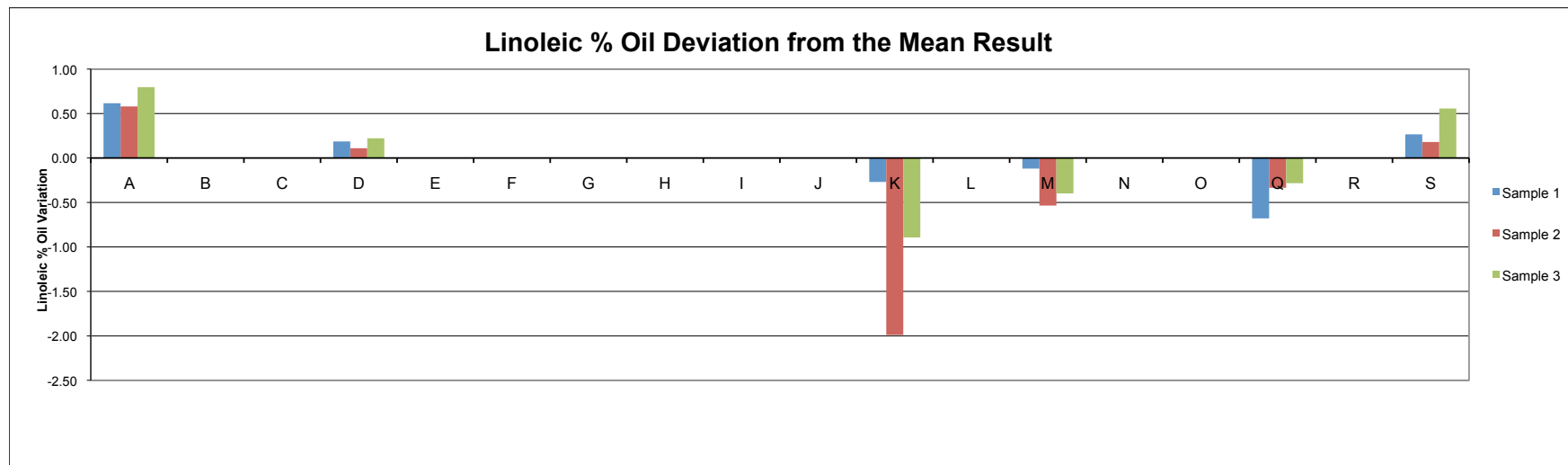
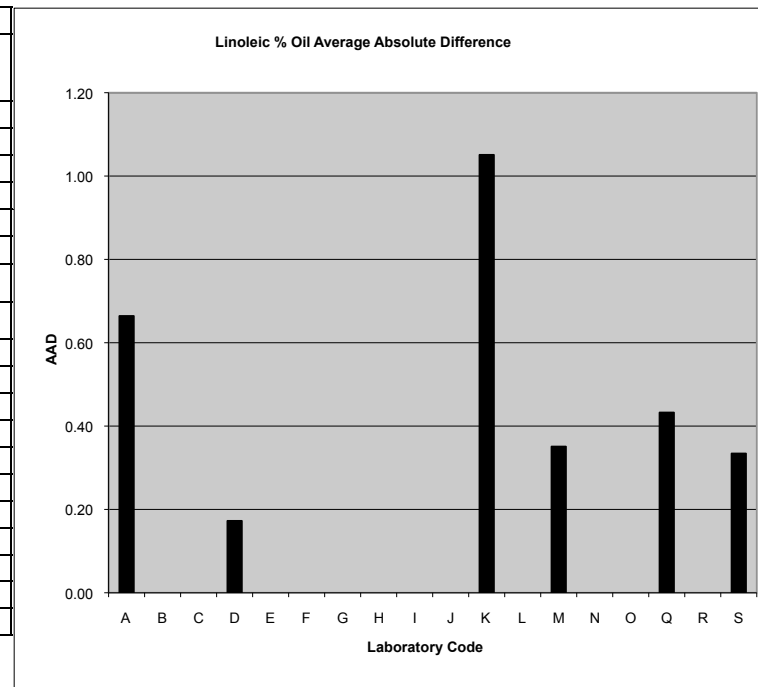
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	62.46	-2.10	63.48	-1.72	61.59	-2.09	-1.97	1.97
B								
C								
D	63.91	-0.65	64.70	-0.49	63.39	-0.29	-0.48	0.48
E								
F								
G								
H								
I								
J								
K	64.75	0.19	69.94	4.75	65.20	1.53	2.16	2.16
L								
M	64.41	-0.15	65.94	0.75	63.97	0.30	0.30	0.40
N								
O								
Q	65.38	0.82	66.15	0.96	63.91	0.24	0.67	0.67
R								
S	64.35	-0.21	65.69	0.50	63.43	-0.24	0.02	0.32
MEAN	64.56		65.19		63.67			1.00
STDEV	0.55		1.11		0.31			



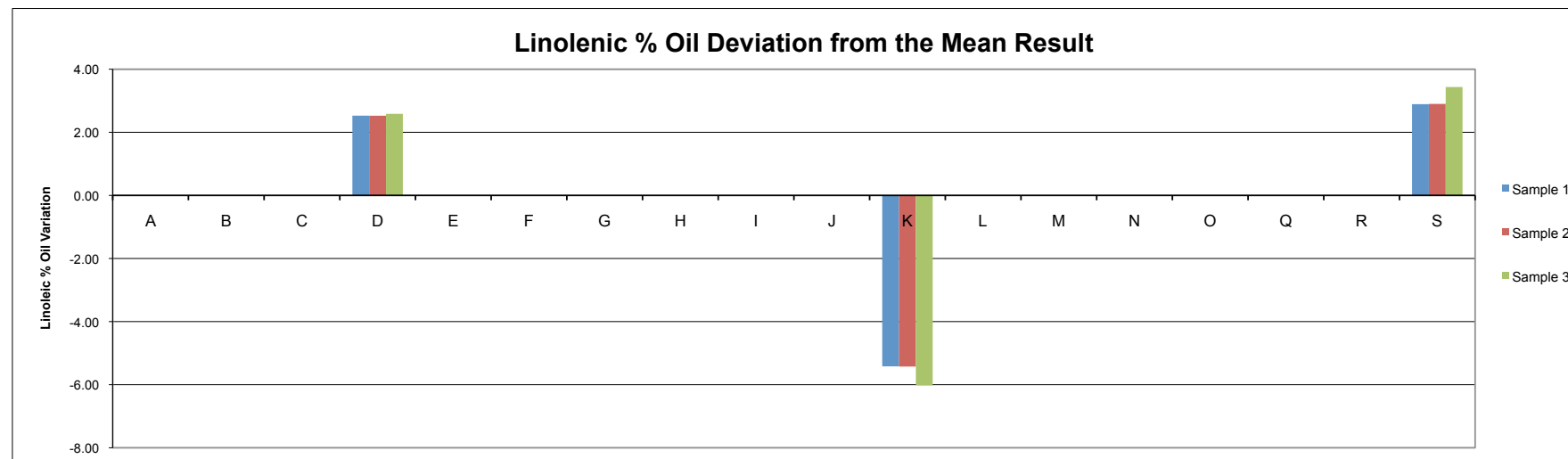
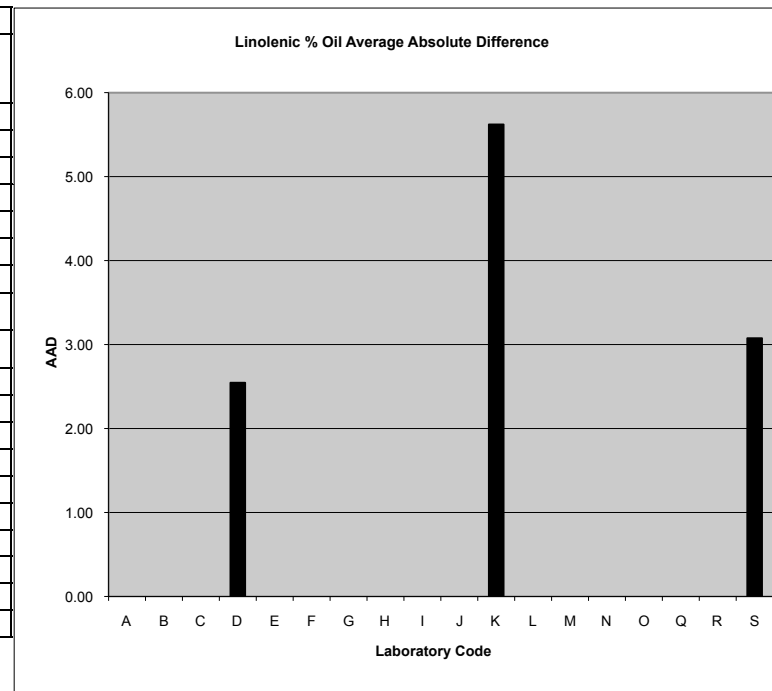
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Linoleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	20.84	0.62	18.30	0.58	20.64	0.80	0.66	0.66
B								
C								
D	20.41	0.19	17.83	0.11	20.07	0.22	0.17	0.17
E								
F								
G								
H								
I								
J								
K	19.95	-0.27	15.73	-1.99	18.95	-0.89	-1.05	1.05
L								
M	20.10	-0.12	17.19	-0.53	19.45	-0.40	-0.35	0.35
N								
O								
Q	19.54	-0.68	17.39	-0.34	19.56	-0.28	-0.43	0.43
R								
S	20.49	0.27	17.90	0.18	20.40	0.56	0.33	0.33
MEAN	20.22		17.72		19.84			0.50
STDEV	0.38		0.44		0.64			



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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								
B								
C								
D	8.35	2.53	8.50	2.53	8.96	2.59	2.55	2.55
E								
F								
G								
H								
I								
J								
K	0.40	-5.42	0.55	-5.43	0.36	-6.02	-5.62	5.62
L								
M								
N								
O								
Q								
R								
S	8.71	2.89	8.87	2.90	9.81	3.44	3.08	3.08
MEAN	5.82		5.97		6.38			3.75
STDEV	4.70		4.70		5.23			



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

Free Fatty Acid % oil Average Absolute Difference
