



**AOF Test Check Program
Monthly Report
Round 2
February – 2015
01/02/2015 – 01/03/2015**

Result Receival Dates

Lab Code	Date
A	27/02/2015
B	N/A
C	18/02/2015
D	06/02/2015
E	28/02/2015
F	N/A
G	23/02/2015
H	N/A
I	06/02/2015
J	26/02/2015
K	25/02/2015
L	19/02/2015
M	26/02/2015
N	N/A
O	12/02/2015
Q	28/02/2015
R	09/02/2015
S	27/02/2015

Discussion of Results

Test Weight

Sample 1 – No outliers were observed for this test.

Sample 2 – No outliers were observed for this test.

Sample 3 – Outliers were identified for lab **A** and **C**. Lab **A** was a 0.86 h/L discrepancy from the upper quartile limit (68.64h/L). Lab **C** was a 0.71 h/L discrepancy from the lower quartile limit (64.71h/L).



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Impurities

No outliers were observed for this test

Oil Rapid

Sample 1 – One outlier was identified for lab **R** with a 0.17 of a percent discrepancy from the upper quartile limit (43.53%).

Sample 2 – Outliers were identified for lab **C** and **K** with a 1.38 and 0.03 of a percent discrepancy, respectively, from the upper quartile limit (46.43%).

Sample 3 – One outlier was identified for lab **E** with a 0.05 of a percent discrepancy from the lower quartile limit (39.20%).

Rapid oil results found to be outliers for lab E and K fell within 1 SD of the average reported for reference testing values. However, lab R was outside 2 SD from the reference result reported for sample 1 and lab C was found to be outside a single SD of the average reported for reference testing values for sample 2. Both labs R and C were also found to be outside the upper fence for the quartile limits for reference testing

Oil Solvent Extraction

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for lab **D** with a 0.65 of a percent discrepancy from the lower quartile limit (43.25%).

Sample 3 – No outliers were observed for this test.

Moisture Oven

Sample 1 – Outliers were identified for lab **K** and **R** with a 0.07 and 0.15 of a percent discrepancy, respectively, from the lower quartile limit (4.56%).

Sample 2 – Outliers were identified for lab **E** and **R**. Lab **E** was a 0.02 of a percent discrepancy from the upper quartile limit (5.08%). Lab **R** was a 0.04 of a percent discrepancy from the lower quartile limit (3.99%).

Sample 3 – Outliers were identified for lab **D** and **K**. Lab **K** reported 0.15 of a percent discrepancy from the lower quartile limit while lab **D** reported a result on the lower quartile limit of 7.04%.



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It is to be noted that reproducibility of moisture testing according to ISO method 712:2009 is 0.45% “for products whose moisture content is between 10 and 18%” making assumptions for similarity of testing procedure. There are no identified reproducibility values surrounding *brassica napus* specifically.

Moisture Rapid

No outliers were observed for this test.

Oleic Oil

Sample 1 – One outlier was identified for Lab **S** with a 0.31 of a percent discrepancy from the upper quartile limit (73.80%).

Sample 2 – Outliers were identified for lab **A** and **S**. Lab **A** was a 1.24 of a percent discrepancy from the lower quartile limit (57.84%). Lab **S** was a 0.78 of a percent discrepancy from the upper quartile limit (60.68%).

Sample 3 – Outliers were identified for lab **A** and **S**. Lab **A** was a 0.28 of a percent discrepancy from the lower quartile limit (68.16%). Lab **S** was a 2.52 of a percent discrepancy from the upper quartile limit (71.08%).

Linoleic Oil

Sample 1 – No outliers were observed for this test.

Sample 2 – Outliers were identified for lab **A** and **M**. Lab **A** was a 0.36 of a percent discrepancy from the upper quartile limit (23.52%). Lab **M** was a 0.13 of a percent discrepancy from the lower quartile limit (22.28%).

Sample 3 – No outliers were observed for this test.

Free Fatty Acid

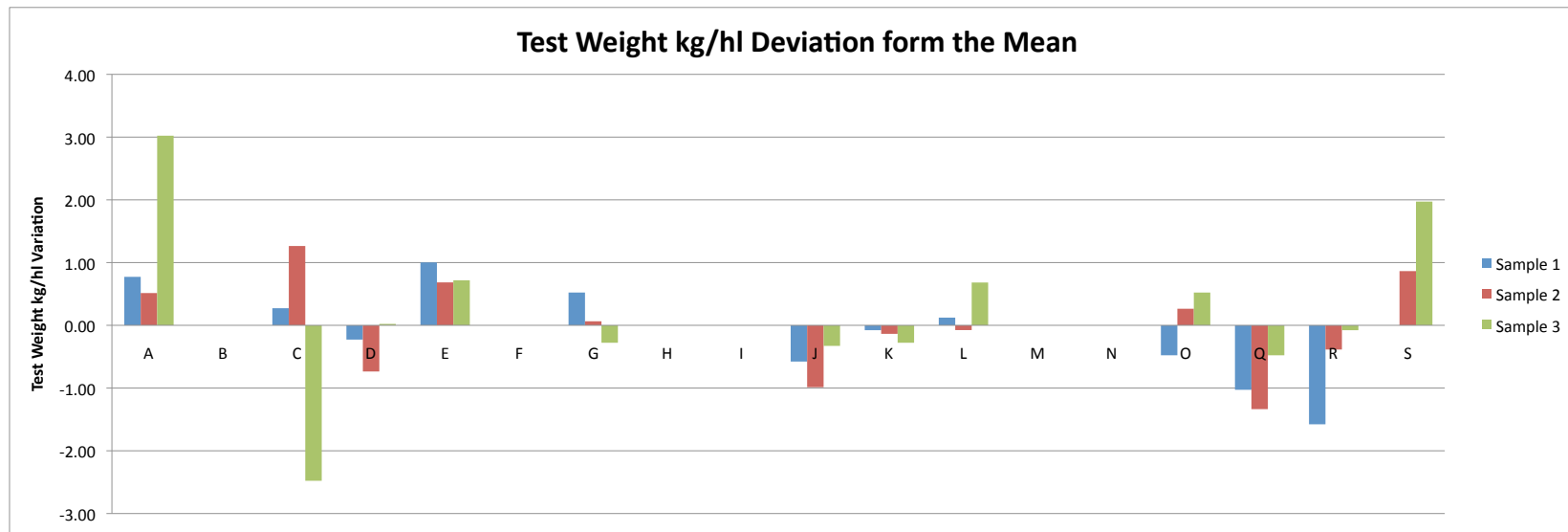
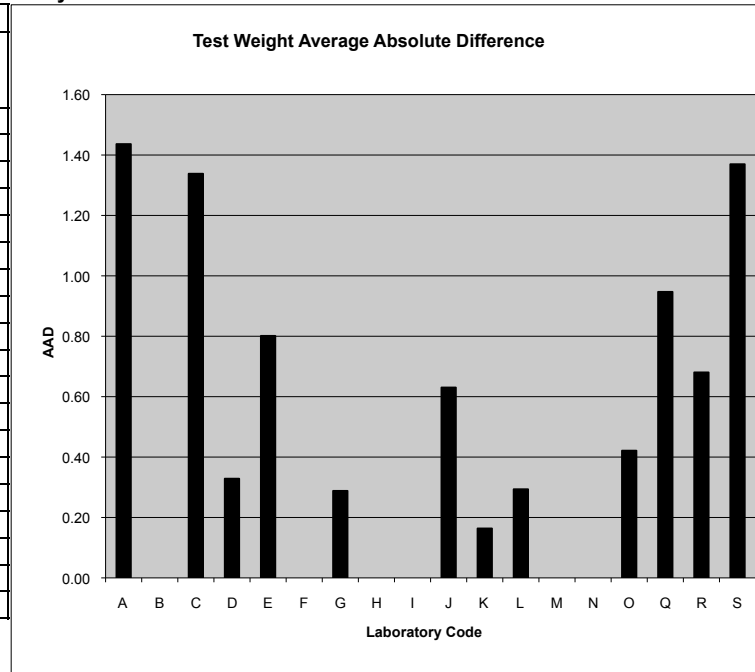
Sample 1 – One outlier was identified for Lab **K** with a 0.15 of a percent discrepancy from the upper quartile limit (0.80%).

Sample 2 – One outlier was identified for Lab **K** with a 0.12 of a percent discrepancy from the upper quartile limit (0.74%).

Sample 3 – No outliers were observed for this test.

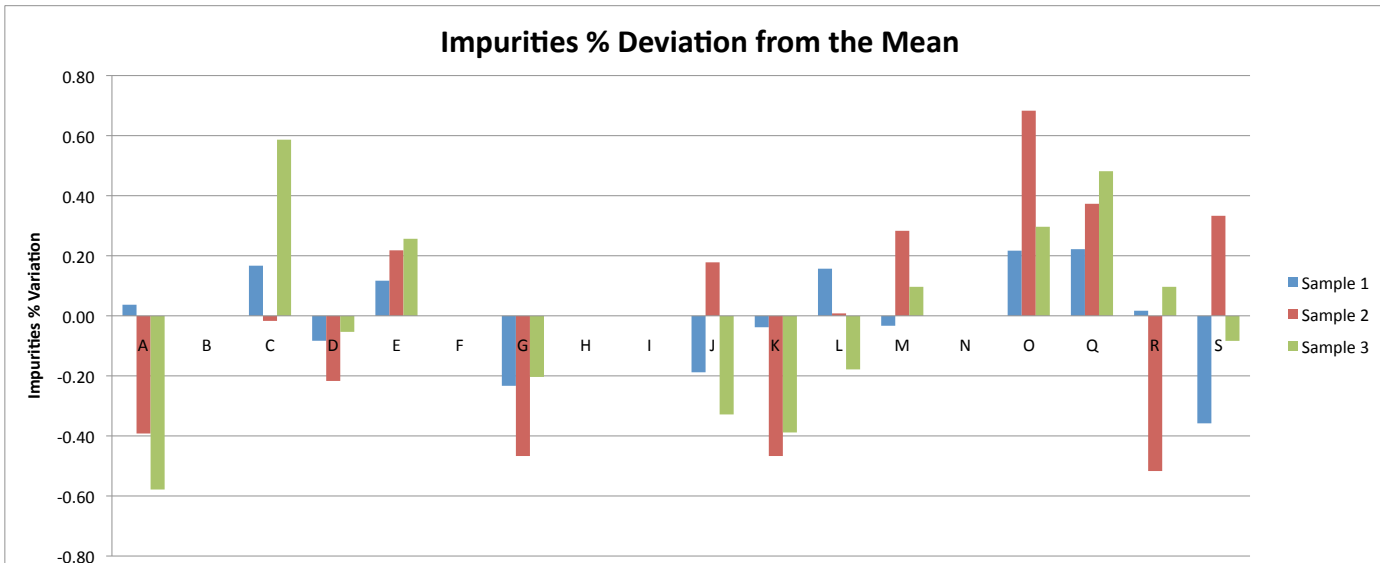
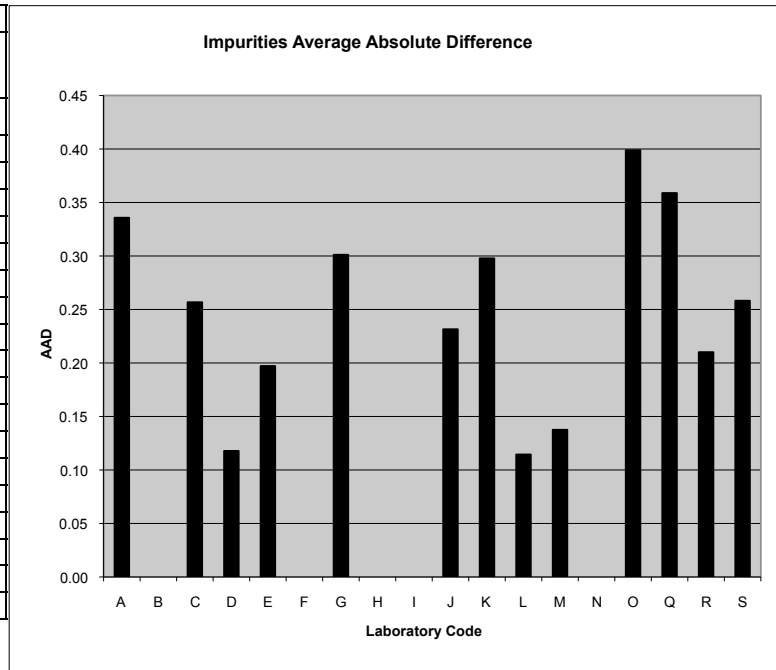
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	68.25	0.77	68.25	0.51	69.50	3.02	1.44	1.44
B								
C	67.75	0.27	69.00	1.26	64.00	-2.48	-0.31	1.34
D	67.25	-0.23	67.00	-0.74	66.50	0.02	-0.31	0.33
E	68.48	1.00	68.42	0.68	67.20	0.72	0.80	0.80
F								
G	68.00	0.52	67.80	0.06	66.20	-0.28	0.10	0.29
H								
I								
J	66.90	-0.58	66.75	-0.99	66.15	-0.33	-0.63	0.63
K	67.40	-0.08	67.60	-0.14	66.20	-0.28	-0.16	0.16
L	67.60	0.12	67.66	-0.08	67.16	0.68	0.24	0.29
M								
N								
O	67.00	-0.48	68.00	0.26	67.00	0.52	0.10	0.42
Q	66.45	-1.03	66.40	-1.34	66.00	-0.48	-0.95	0.95
R	65.90	-1.58	67.35	-0.39	66.40	-0.08	-0.68	0.68
S	67.48	0.00	68.60	0.86	68.45	1.97	1.37	1.37
MEAN	67.48		67.74		66.48			0.72
STDEV	0.84		0.78		1.09			



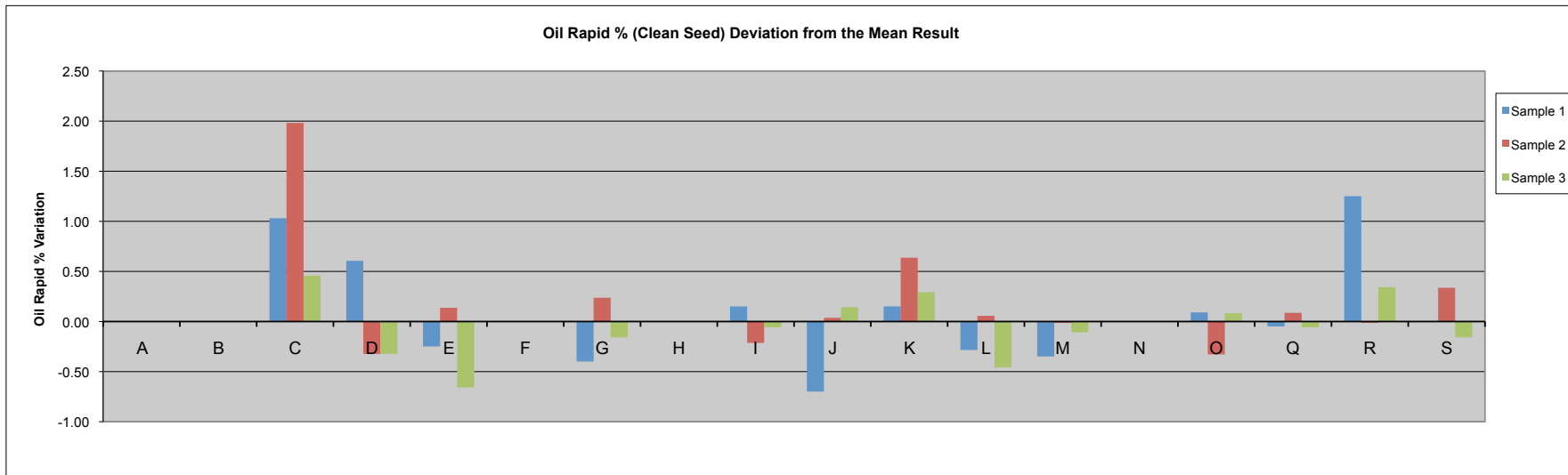
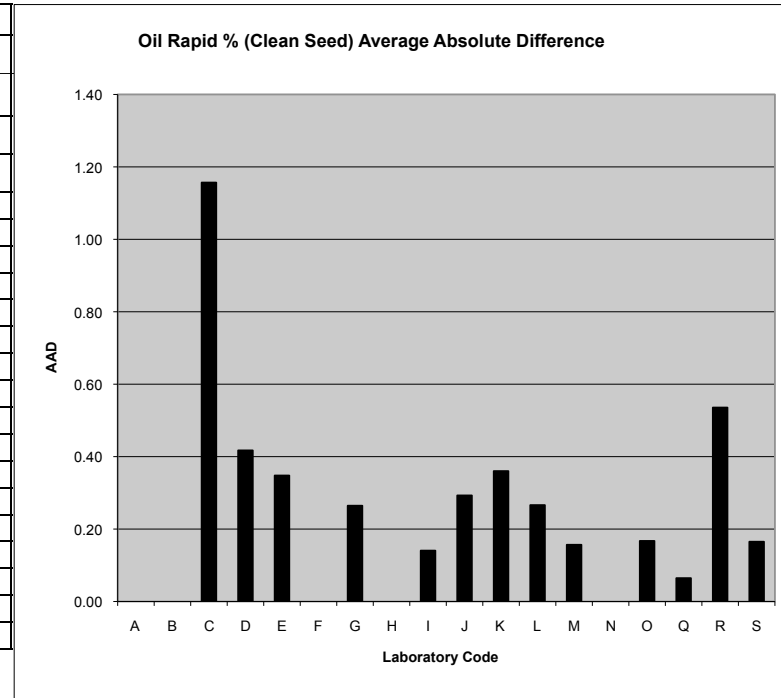
**2015 AOF Test Check Program
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	1.12	0.04	1.53	-0.39	1.53	-0.58	-0.31	0.34
B								
C	1.25	0.17	1.90	-0.02	2.69	0.59	0.25	0.26
D	1.00	-0.08	1.70	-0.22	2.05	-0.05	-0.12	0.12
E	1.20	0.12	2.14	0.22	2.36	0.26	0.20	0.20
F								
G	0.85	-0.23	1.45	-0.47	1.90	-0.20	-0.30	0.30
H								
I								
J	0.90	-0.19	2.10	0.18	1.78	-0.33	-0.11	0.23
K	1.05	-0.04	1.45	-0.47	1.72	-0.39	-0.30	0.30
L	1.24	0.16	1.93	0.01	1.93	-0.18	0.00	0.11
M	1.05	-0.03	2.20	0.28	2.20	0.10	0.12	0.14
N								
O	1.30	0.22	2.60	0.68	2.40	0.30	0.40	0.40
Q	1.31	0.22	2.29	0.37	2.59	0.48	0.36	0.36
R	1.10	0.02	1.40	-0.52	2.20	0.10	-0.13	0.21
S	0.73	-0.36	2.25	0.33	2.02	-0.08	-0.04	0.26
MEAN	1.08		1.92		2.10			0.25
STDEV	0.18		0.39		0.34			



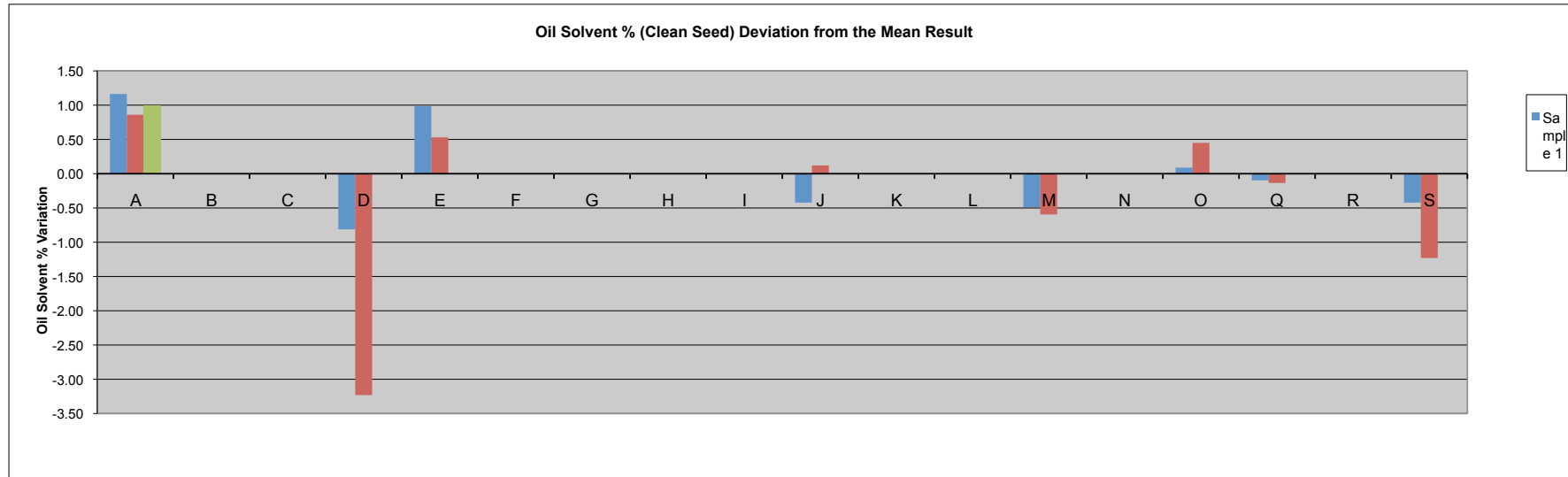
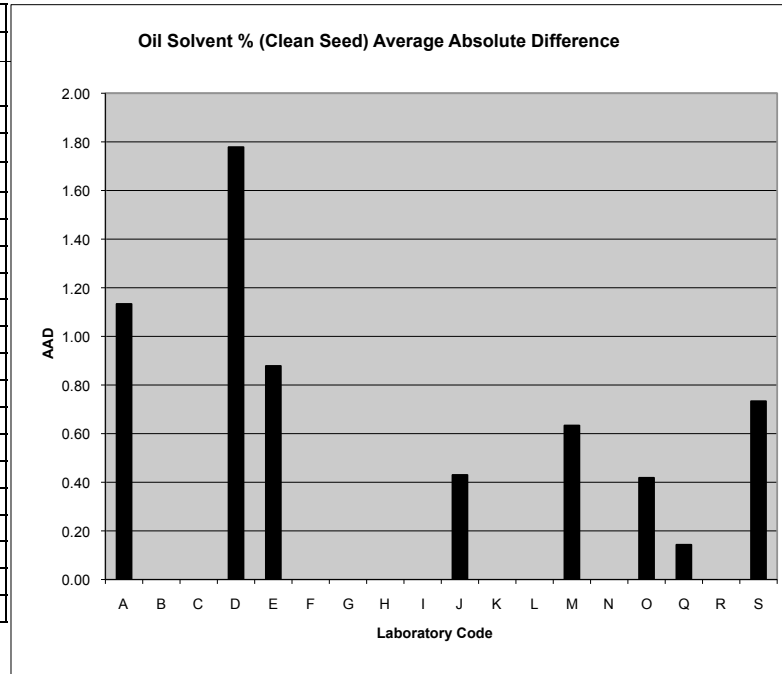
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	43.48	1.03	47.80	1.98	40.27	0.46	1.16	1.16
D	43.06	0.61	45.49	-0.32	39.49	-0.32	-0.01	0.42
E	42.20	-0.25	45.95	0.14	39.15	-0.66	-0.26	0.35
F								
G	42.05	-0.40	46.05	0.24	39.65	-0.16	-0.11	0.26
H								
I	42.60	0.15	45.60	-0.21	39.75	-0.06	-0.04	0.14
J	41.75	-0.70	45.85	0.04	39.95	0.14	-0.17	0.29
K	42.60	0.15	46.45	0.64	40.10	0.29	0.36	0.36
L	42.17	-0.28	45.87	0.06	39.35	-0.46	-0.23	0.27
M	42.10	-0.35	45.80	-0.01	39.70	-0.11	-0.16	0.16
N								
O	42.54	0.09	45.49	-0.33	39.89	0.08	-0.05	0.17
Q	42.40	-0.05	45.90	0.09	39.75	-0.06	-0.01	0.06
R	43.70	1.25	45.80	-0.01	40.15	0.34	0.53	0.54
S	42.45	0.00	46.15	0.34	39.65	-0.16	0.06	0.17
MEAN	42.45		45.81		39.81			0.33
STDEV	0.47		0.21		0.27			



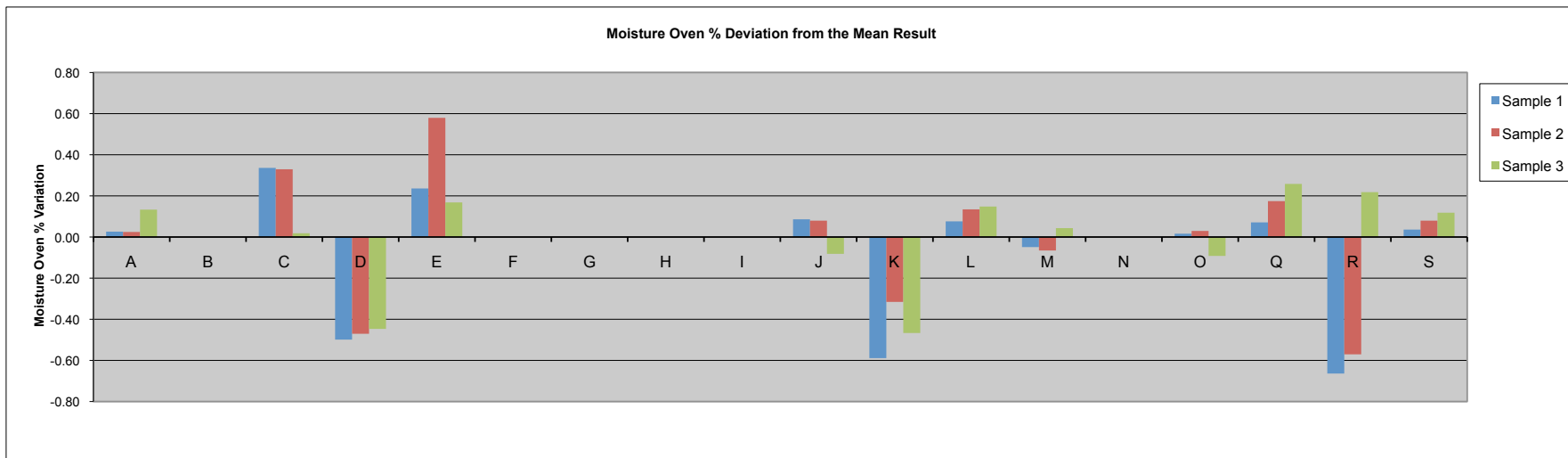
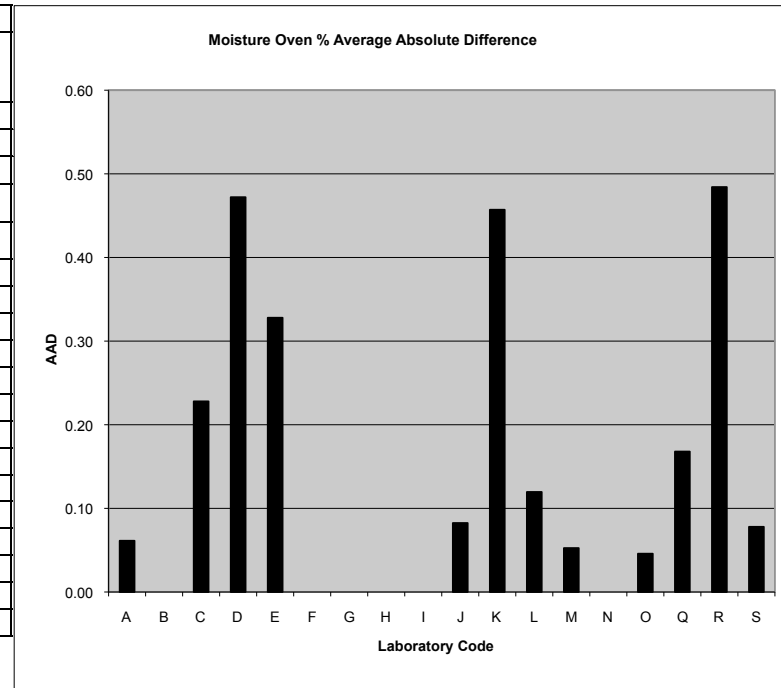
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	42.89	1.16	46.69	0.86	40.03	1.38	1.13	1.13
B								
C								
D	40.91	-0.81	42.60	-3.23	37.36	-1.29	-1.78	1.78
E	42.71	0.99	46.36	0.53	39.77	1.12	0.88	0.88
F								
G								
H								
I								
J	41.30	-0.42	45.95	0.12	37.90	-0.75	-0.35	0.43
K								
L								
M	41.24	-0.49	45.24	-0.60	37.83	-0.82	-0.63	0.63
N								
O	41.81	0.09	46.28	0.45	39.37	0.72	0.42	0.42
Q	41.63	-0.10	45.70	-0.14	38.85	0.20	-0.01	0.14
R								
S	41.30	-0.42	44.60	-1.23	38.10	-0.55	-0.73	0.73
MEAN	41.72		45.83		38.65			0.77
STDEV	0.72		0.72		0.99			



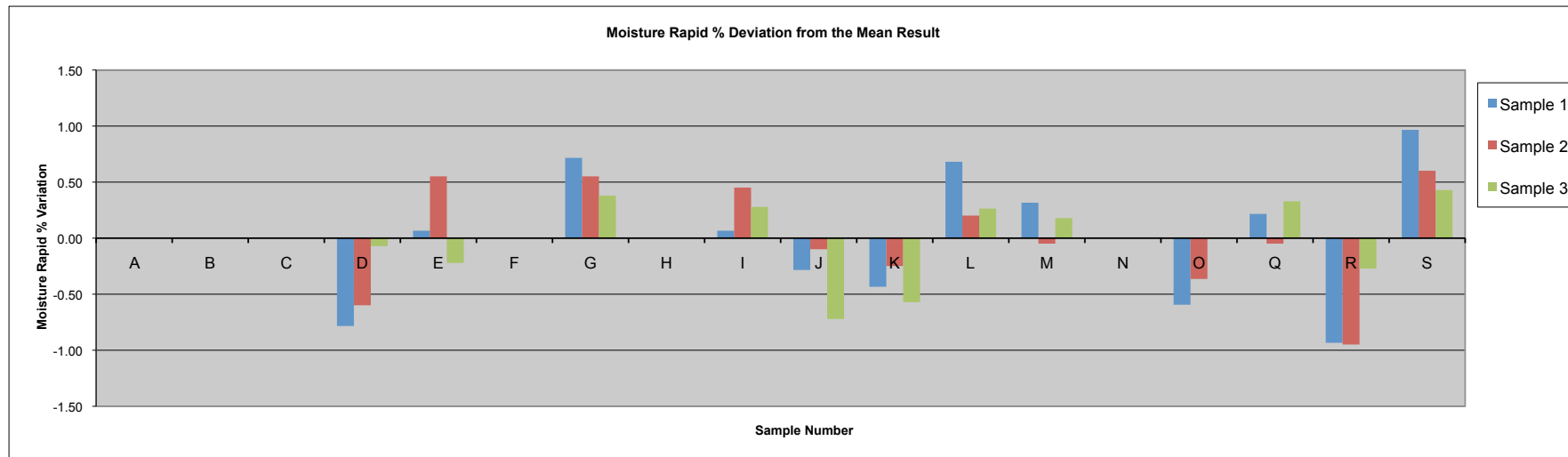
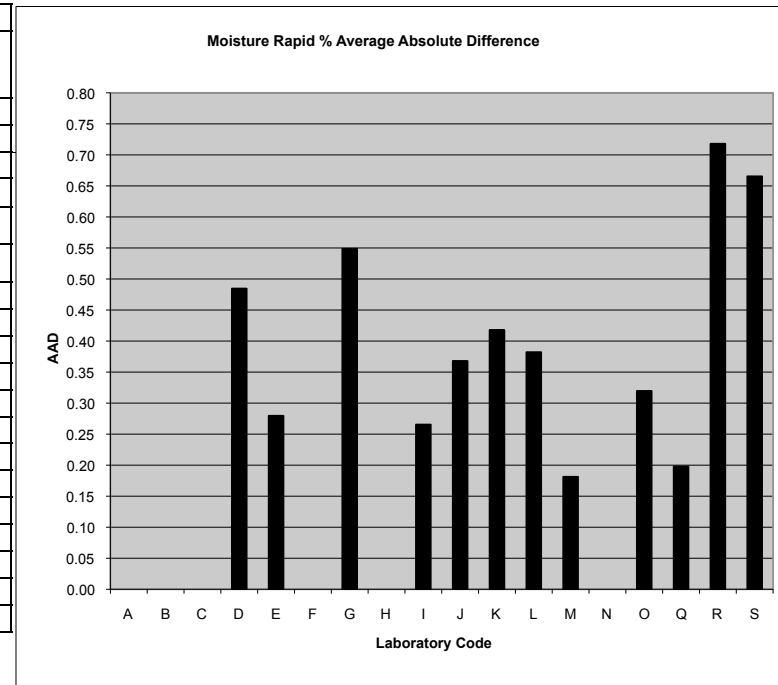
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	5.09	0.03	4.55	0.02	7.62	0.13	0.06	0.06
B								
C	5.40	0.34	4.85	0.33	7.50	0.02	0.23	0.23
D	4.57	-0.50	4.05	-0.47	7.04	-0.45	-0.47	0.47
E	5.30	0.24	5.10	0.58	7.65	0.17	0.33	0.33
F								
G								
H								
I								
J	5.15	0.09	4.60	0.08	7.40	-0.08	0.03	0.08
K	4.48	-0.59	4.21	-0.32	7.02	-0.47	-0.46	0.46
L	5.14	0.08	4.66	0.13	7.63	0.15	0.12	0.12
M	5.02	-0.05	4.46	-0.07	7.53	0.04	-0.02	0.05
N								
O	5.08	0.02	4.55	0.03	7.39	-0.09	-0.02	0.05
Q	5.14	0.07	4.70	0.17	7.74	0.26	0.17	0.17
R	4.40	-0.66	3.95	-0.57	7.70	0.22	-0.34	0.48
S	5.10	0.04	4.60	0.08	7.60	0.12	0.08	0.08
MEAN	5.06		4.52		7.48			0.21
STDEV	0.20		0.23		0.25			



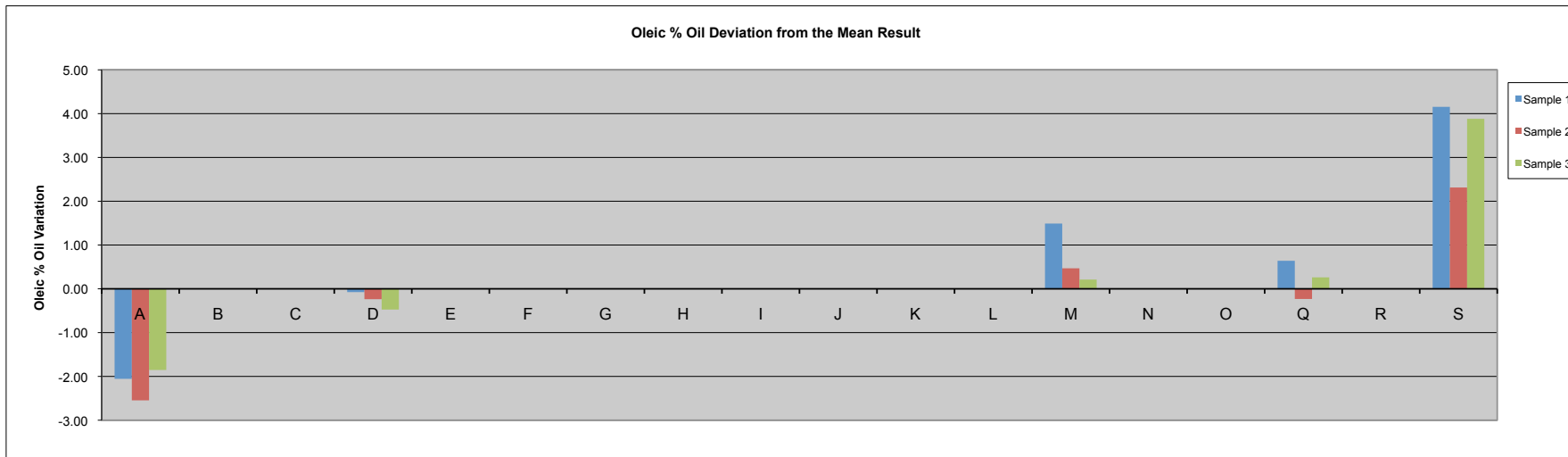
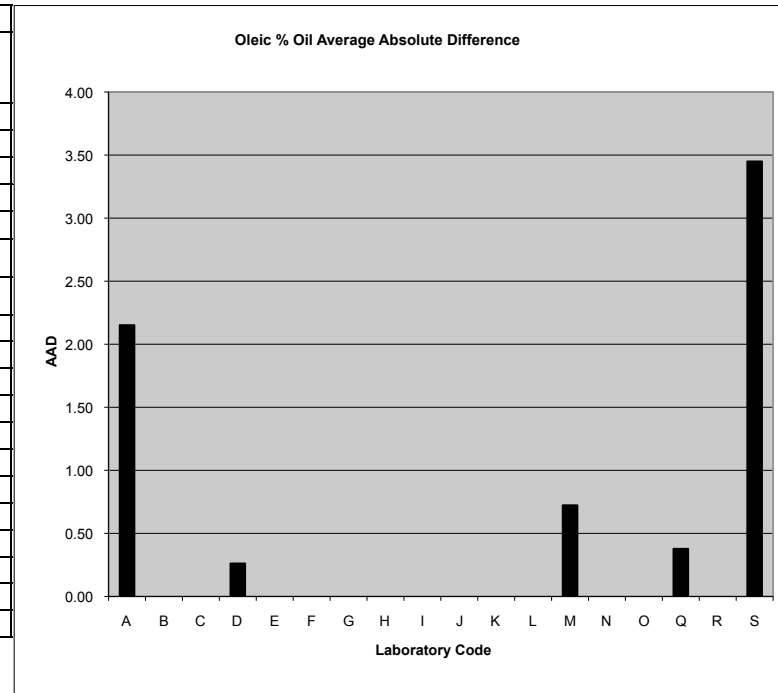
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C								
D	4.55	-0.78	4.05	-0.60	7.65	-0.07	-0.48	0.48
E	5.40	0.07	5.20	0.55	7.50	-0.22	0.13	0.28
F								
G	6.05	0.72	5.20	0.55	8.10	0.38	0.55	0.55
H								
I	5.40	0.07	5.10	0.45	8.00	0.28	0.27	0.27
J	5.05	-0.28	4.55	-0.10	7.00	-0.72	-0.37	0.37
K	4.90	-0.43	4.40	-0.25	7.15	-0.57	-0.42	0.42
L	6.02	0.68	4.85	0.20	7.99	0.26	0.38	0.38
M	5.65	0.32	4.60	-0.05	7.90	0.18	0.15	0.18
N								
O	4.74	-0.59	4.29	-0.36	7.72	0.00	-0.32	0.32
Q	5.55	0.22	4.60	-0.05	8.05	0.33	0.17	0.20
R	4.40	-0.93	3.70	-0.95	7.45	-0.27	-0.72	0.72
S	6.30	0.97	5.25	0.60	8.15	0.43	0.67	0.67
MEAN	5.33		4.65		7.72			0.40
STDEV	0.62		0.49		0.38			



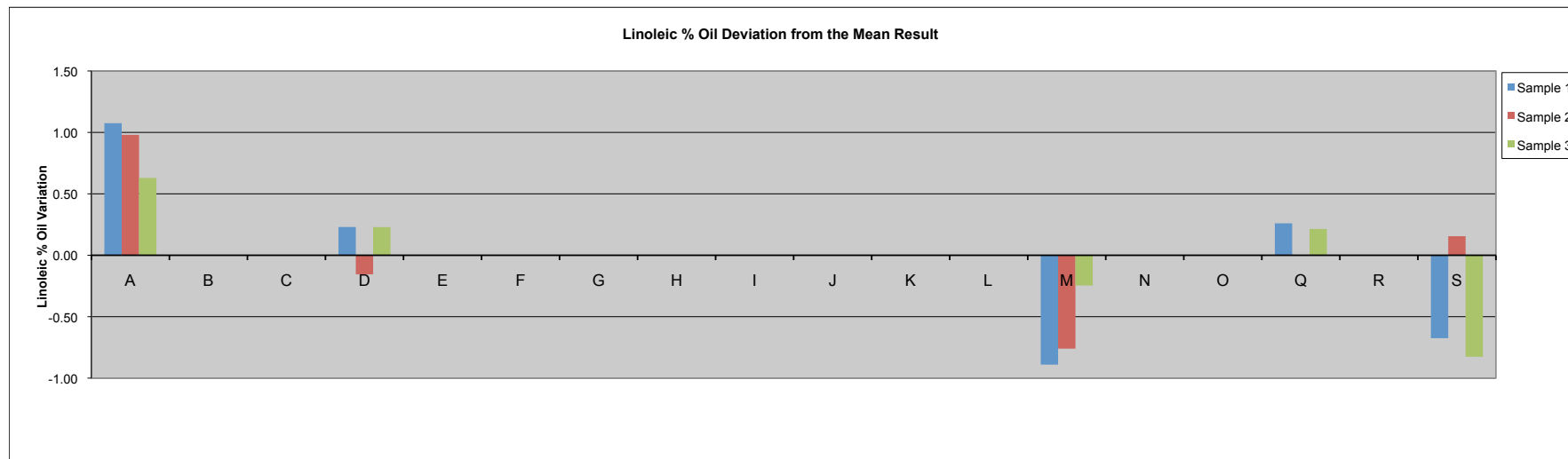
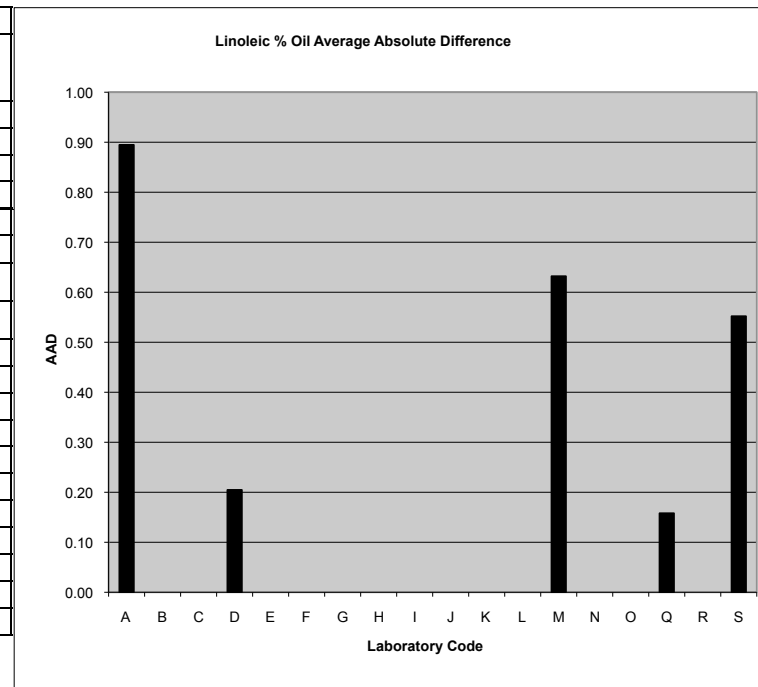
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	67.89	-2.05	56.59	-2.55	67.87	-1.85	-2.15	2.15
B								
C								
D	69.87	-0.07	58.90	-0.24	69.25	-0.47	-0.26	0.26
E								
F								
G								
H								
I								
J								
K								
L								
M	71.44	1.49	59.61	0.47	69.93	0.21	0.72	0.72
N								
O								
Q	70.59	0.64	58.91	-0.23	69.98	0.26	0.22	0.38
R								
S	74.10	4.16	61.45	2.31	73.60	3.88	3.45	3.45
MEAN	69.95		59.14		69.72			1.39
STDEV	1.51		0.41		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	13.95	1.08	23.88	0.98	14.51	0.63	0.89	0.89
B								
C								
D	13.11	0.23	22.74	-0.15	14.11	0.23	0.10	0.20
E								
F								
G								
H								
I								
J								
K								
L								
M	11.99	-0.89	22.14	-0.76	13.63	-0.25	-0.63	0.63
N								
O								
Q	13.14	0.26	22.90	0.00	14.09	0.21	0.16	0.16
R								
S	12.20	-0.68	23.05	0.16	13.05	-0.83	-0.45	0.55
MEAN	12.88		22.90		13.88			0.49
STDEV	0.79		0.15		0.56			



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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	0.15	-0.11	0.10	-0.10	0.29	-0.10	-0.10	0.10
B								
C								
D	0.26	0.00	0.22	0.02	0.30	-0.09	-0.02	0.04
E								
F								
G								
H								
I								
J	0.48	0.23	0.43	0.23	0.52	0.13	0.20	0.20
K	0.94	0.69	0.86	0.66	0.78	0.39	0.58	0.58
L								
M	0.39	0.14	0.33	0.13	0.59	0.20	0.16	0.16
N								
O	0.16	-0.09	0.10	-0.10	0.27	-0.12	-0.10	0.10
Q	0.20	-0.05	0.13	-0.07	0.12	-0.27	-0.13	0.13
R								
S	0.14	-0.12	0.08	-0.12	0.27	-0.12	-0.12	0.12
MEAN	0.25		0.20		0.39			0.18
STDEV	0.13		0.14		0.22			

