



**AOF Test Check Program
Monthly Report
Round 1
January – 2015
01/01/2015 – 01/02/2015**

Result Receival Dates

Lab Code	Date
A	30/01/2015
B	N/A
C	29/01/2015
D	16/01/2015
E	02/02/2015
F	22/01/2015
G	20/01/2015
H	20/01/2015
I	20/01/2015
J	30/01/2015
K	22/01/2015
L	29/01/2015
M	02/02/2015
N	30/01/2015
O	28/01/2015
Q	02/02/2015
R	23/01/2015
S	30/01/2015

Discussion of Results

Test Weight

- Sample 1 – Outliers were identified for Lab **C** and **K**. Lab **C** was a 0.08 h/L discrepancy from the lower quartile limit (62.43h/L). Lab **K** was a 6.21 h/L discrepancy from the upper quartile limit (69.49h/L).
- Sample 2 – Outliers were identified for Lab **C** and **K**. Lab **C** was a 0.19 h/L discrepancy from the lower quartile limit (63.00h/L). Lab **K** was a 5.81 h/L discrepancy from the upper quartile limit (68.19h/L).
- Sample 3 – Outliers were identified for Lab **C** and **K**. Lab **C** was a 1.13 h/L discrepancy from the lower quartile limit (65.24h/L). Lab **K** was a 3.16 h/L discrepancy from the upper quartile limit (67.34h/L).



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Impurities

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **H** with a 0.03 of a percent discrepancy from the lower quartile limit (0.83%).

Sample 3 – One outlier was identified for Lab **F** with a 0.06 of a percent discrepancy from the lower quartile limit (0.45%).

Oil Rapid

Sample 1 – No outliers were observed for this test.

Sample 2 – Outliers were identified for Lab **C** and **H**. Lab **C** was a 1.28 of a percent discrepancy from the upper quartile limit (46.82%). Lab **H** was a 0.27 of a percent discrepancy from the lower quartile limit (45.18h/L).

Sample 3 – Outliers were identified for Lab **C**, **D**, **H**, **M** and **O**. Lab **C** and **M** were 2.07 and 0.03 of a percent discrepancy, respectively, from the upper quartile limit (48.23%). Lab **D**, **H** and **O** were 0.08, 0.84 and 0.59 of a percent discrepancy, respectively, from the lower quartile limit (47.63%).

All rapid oil results reported by outlying labs, with exception to Lab **C** and **H**, fall within 2 standard deviations of the reported average for reference testing values. Lab **C** and **H** reported predictive values within tolerance of quartile limits found for reference testing. This would suggest that all labs are reporting values near to the actual oil value according to combined solvent extraction methods mimicking ISO-659 and utilizing ISO-659, while still reporting an outlying value from the cohort result for predictive analysis.

Oil Solvent Extraction

Sample 1 – One outlier was identified for Lab **D** with a 0.95 of a percent discrepancy from the lower quartile limit (40.31%).

Sample 2 – No outliers were observed for this test.

Sample 3 – One outlier was identified for Lab **D** with a 0.61 of a percent discrepancy from the lower quartile limit (46.33%).



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Moisture Oven

Sample 1 – One outlier was identified for Lab **K** with a 0.04 of a percent discrepancy from the lower quartile limit (5.62%).

Sample 2 – No outliers were observed for this test.

Sample 3 – One outlier was identified for Lab **K** with a 0.26 of a percent discrepancy from the lower quartile limit (3.86%).

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 **F** with a 0.39 of a percent discrepancy from the lower quartile limit (57.09%).

Sample 2 – No outliers were observed for this test.

Sample 3 – No outliers were observed for this test.

Linoleic Oil

No outliers were observed for this test.

Free Fatty Acid

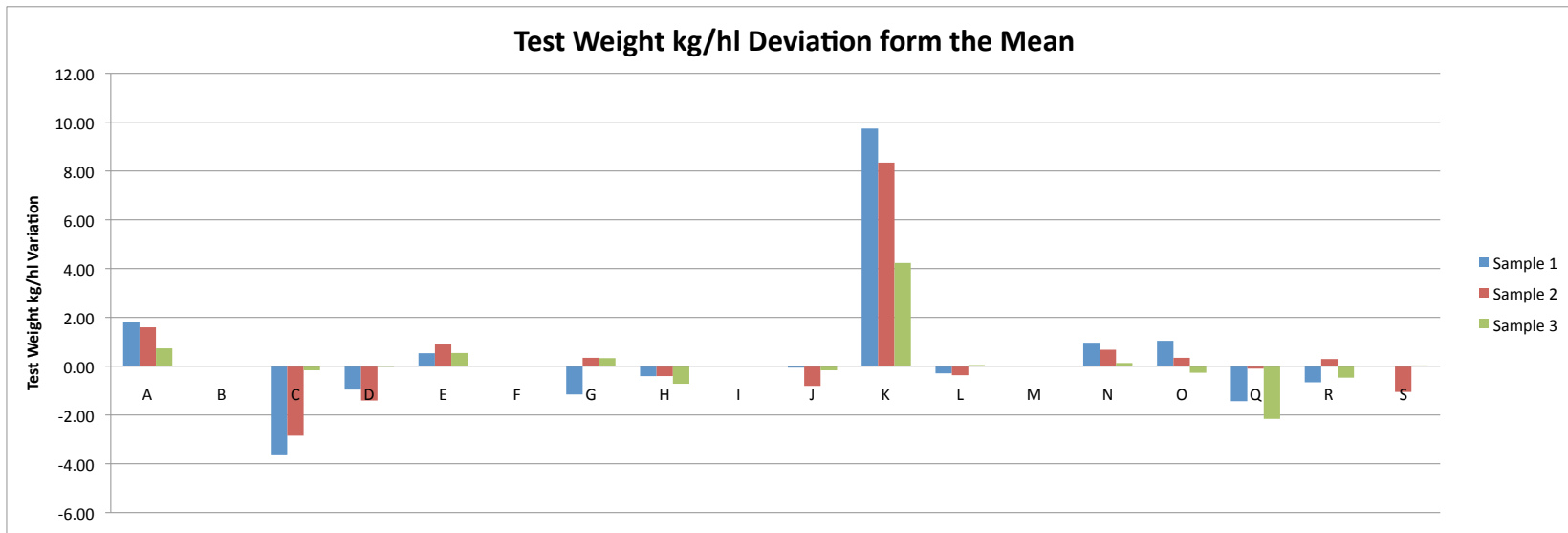
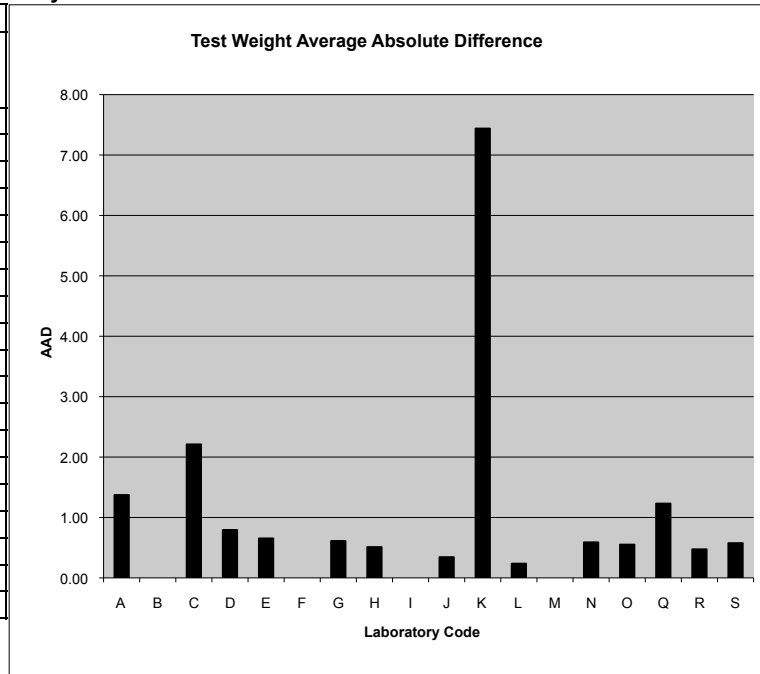
Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **K** with a 0.02 of a percent discrepancy from the upper quartile limit (0.40%).

Sample 3 – One outlier was identified for Lab **K** with a 0.29 of a percent discrepancy from the upper quartile limit (0.32%).

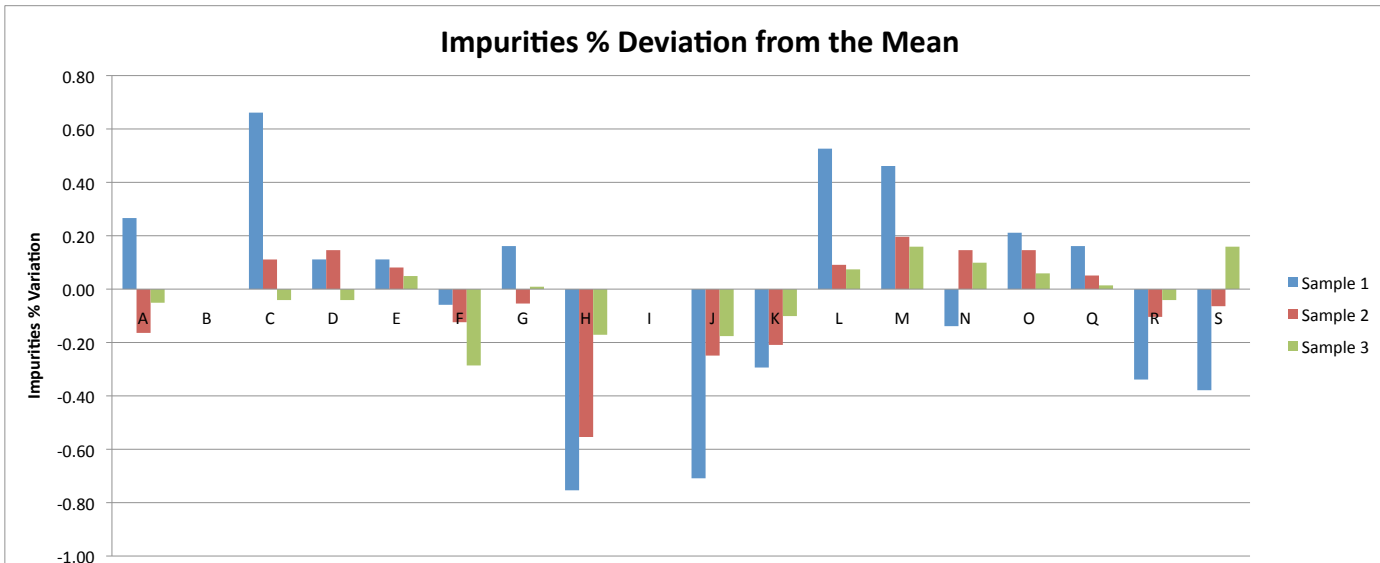
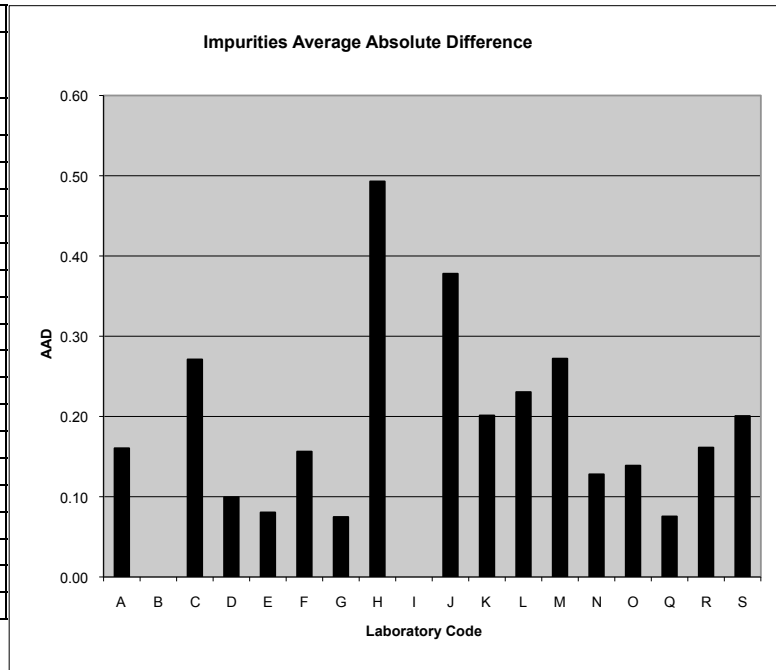
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	67.75	1.79	67.25	1.59	67.00	0.73	1.37	1.37
B								
C	62.35	-3.61	62.81	-2.85	66.10	-0.17	-2.21	2.21
D	65.00	-0.96	64.25	-1.41	66.25	-0.02	-0.79	0.79
E	66.49	0.53	66.55	0.89	66.81	0.54	0.65	0.65
F								
G	64.80	-1.16	66.00	0.34	66.60	0.33	-0.16	0.61
H	65.55	-0.41	65.25	-0.41	65.55	-0.72	-0.51	0.51
I								
J	65.90	-0.06	64.85	-0.81	66.10	-0.17	-0.34	0.34
K	75.70	9.74	74.00	8.34	70.50	4.23	7.44	7.44
L	65.67	-0.29	65.29	-0.37	66.32	0.05	-0.21	0.24
M								
N	66.92	0.96	66.33	0.67	66.40	0.13	0.59	0.59
O	67.00	1.04	66.00	0.34	66.00	-0.27	0.37	0.55
Q	64.53	-1.43	65.56	-0.10	64.11	-2.16	-1.23	1.23
R	65.30	-0.66	65.95	0.29	65.80	-0.47	-0.28	0.47
S	65.96	0.00	64.60	-1.06	66.30	0.03	-0.13	0.58
MEAN	65.96		65.66		66.27			1.26
STDEV	1.00		0.86		0.80			



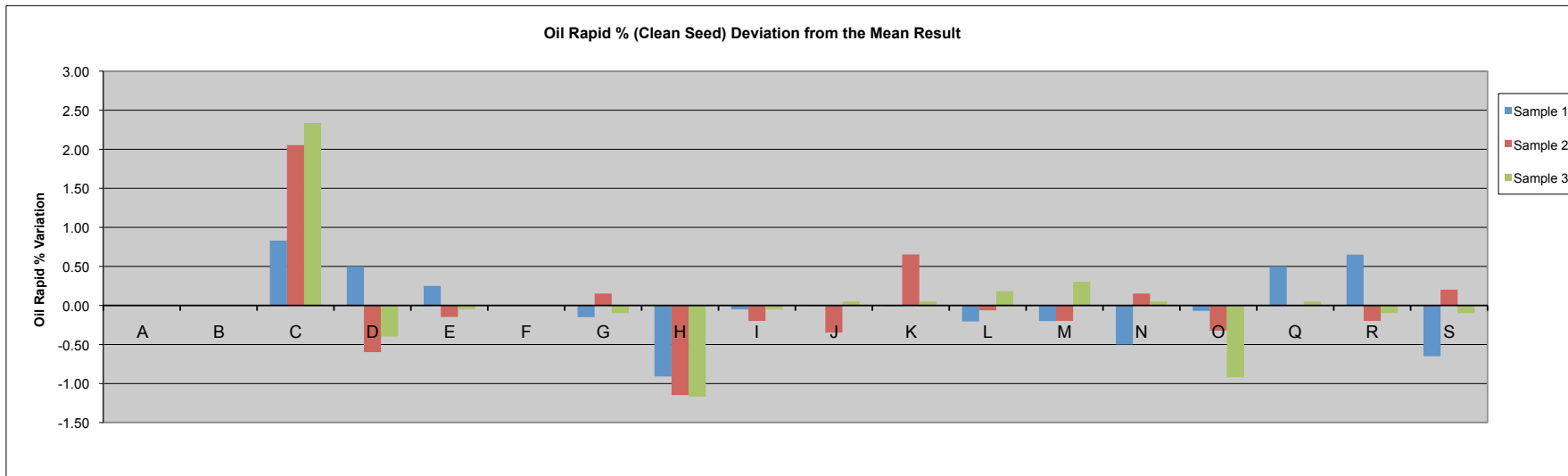
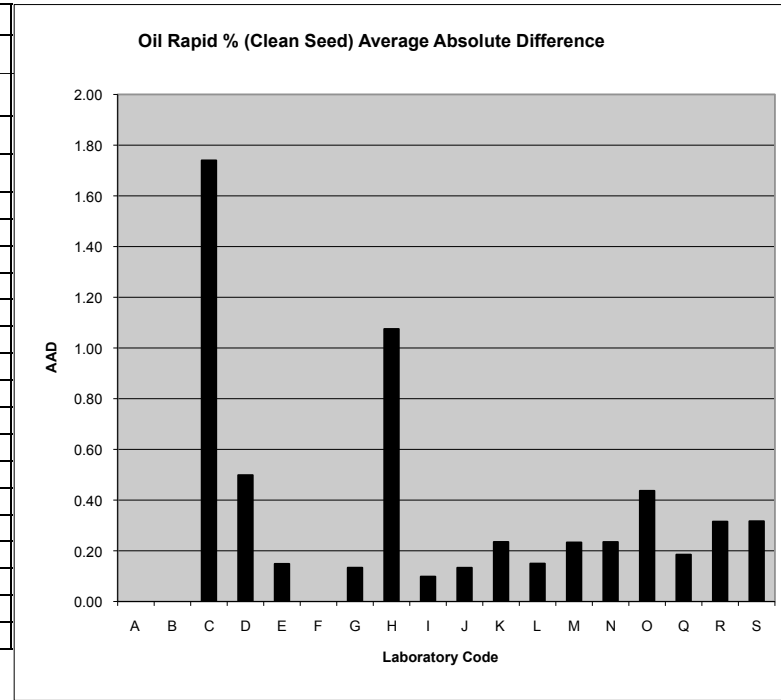
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	2.01	0.27	1.19	-0.16	0.64	-0.05	0.02	0.16
B								
C	2.40	0.66	1.47	0.11	0.65	-0.04	0.24	0.27
D	1.85	0.11	1.50	0.15	0.65	-0.04	0.07	0.10
E	1.85	0.11	1.44	0.08	0.74	0.05	0.08	0.08
F	1.68	-0.06	1.23	-0.12	0.41	-0.29	-0.16	0.16
G	1.90	0.16	1.30	-0.05	0.70	0.01	0.04	0.07
H	0.99	-0.75	0.80	-0.55	0.52	-0.17	-0.49	0.49
I								
J	1.03	-0.71	1.11	-0.25	0.52	-0.18	-0.38	0.38
K	1.45	-0.29	1.15	-0.21	0.59	-0.10	-0.20	0.20
L	2.27	0.53	1.45	0.09	0.77	0.07	0.23	0.23
M	2.20	0.46	1.55	0.20	0.85	0.16	0.27	0.27
N	1.60	-0.14	1.50	0.15	0.79	0.10	0.04	0.13
O	1.95	0.21	1.50	0.15	0.75	0.06	0.14	0.14
Q	1.90	0.16	1.41	0.05	0.71	0.01	0.08	0.08
R	1.40	-0.34	1.25	-0.10	0.65	-0.04	-0.16	0.16
S	1.36	-0.38	1.29	-0.06	0.85	0.16	-0.09	0.20
MEAN	1.74		1.35		0.69			0.20
STDEV	0.41		0.15		0.10			



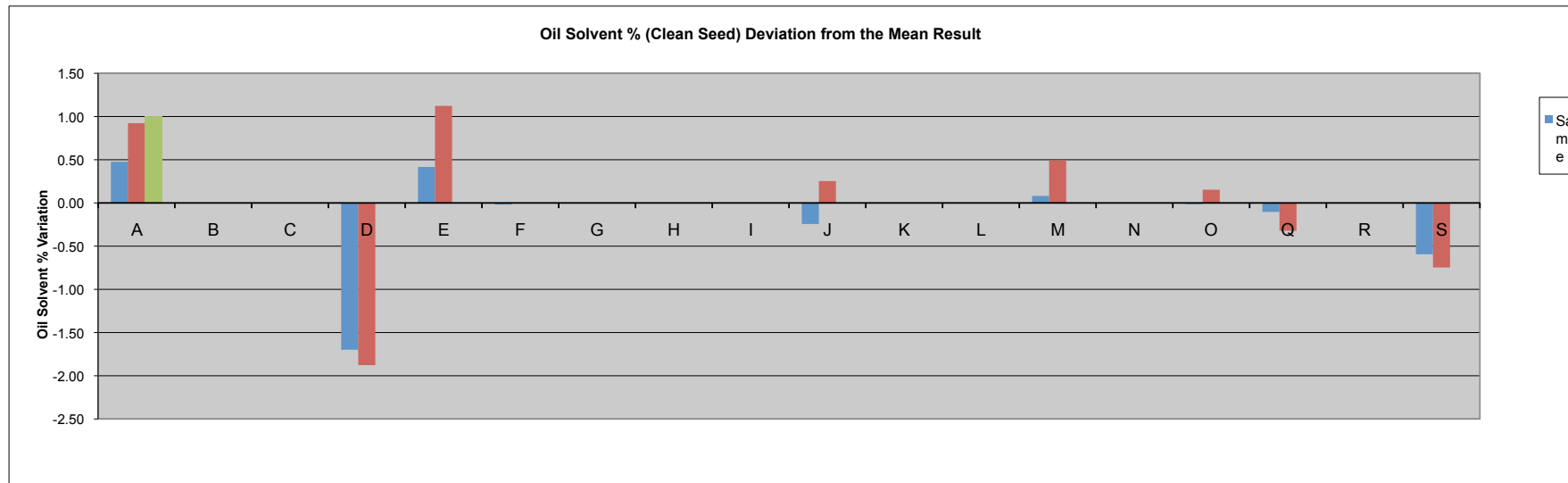
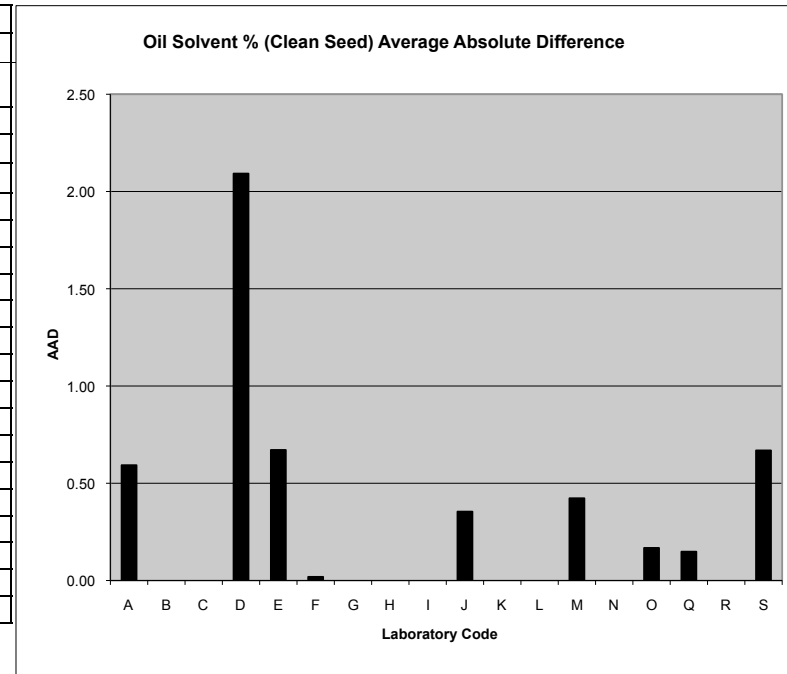
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	41.93	0.83	48.10	2.05	50.29	2.34	1.74	1.74
D	41.60	0.50	45.45	-0.60	47.55	-0.40	-0.16	0.50
E	41.35	0.25	45.90	-0.15	47.90	-0.05	0.02	0.15
F								
G	40.95	-0.15	46.20	0.15	47.85	-0.10	-0.03	0.13
H	40.19	-0.91	44.90	-1.15	46.78	-1.17	-1.08	1.08
I	41.05	-0.05	45.85	-0.20	47.90	-0.05	-0.10	0.10
J	41.10	0.00	45.70	-0.35	48.00	0.05	-0.10	0.13
K	41.10	0.00	46.70	0.65	48.00	0.05	0.24	0.24
L	40.90	-0.20	45.99	-0.06	48.13	0.18	-0.03	0.15
M	40.90	-0.20	45.85	-0.20	48.25	0.30	-0.03	0.23
N	40.60	-0.50	46.20	0.15	48.00	0.05	-0.10	0.23
O	41.03	-0.07	45.73	-0.32	47.03	-0.92	-0.44	0.44
Q	41.60	0.50	46.05	0.00	48.00	0.05	0.18	0.18
R	41.75	0.65	45.85	-0.20	47.85	-0.10	0.12	0.32
S	40.45	-0.65	46.25	0.20	47.85	-0.10	-0.18	0.32
MEAN	41.10		46.05		47.95			0.40
STDEV	0.48		0.70		0.09			



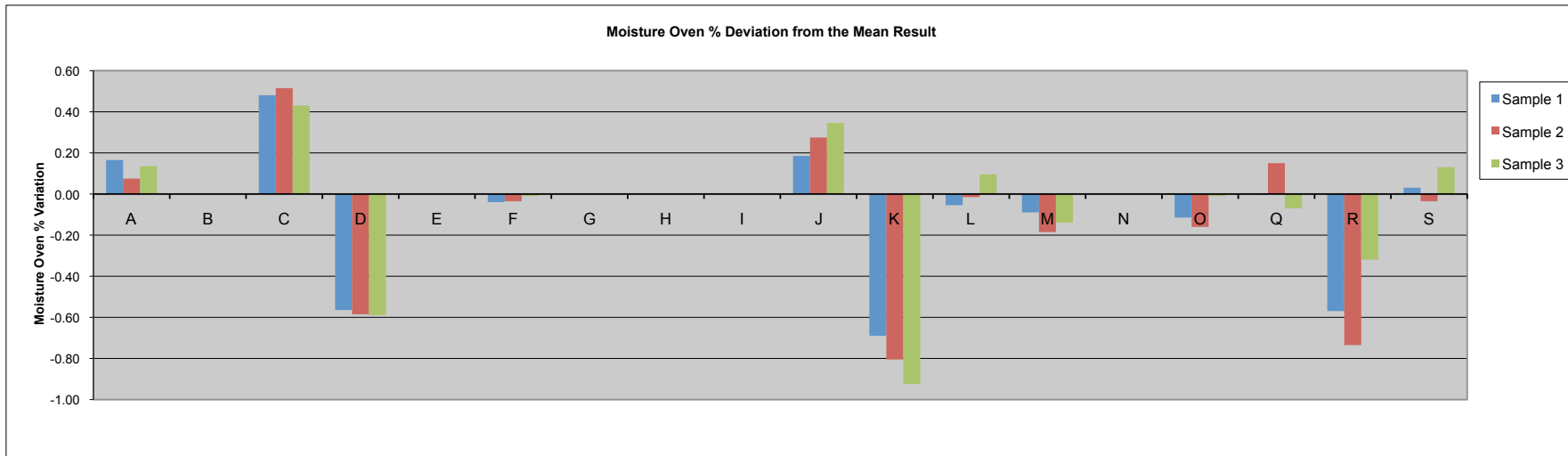
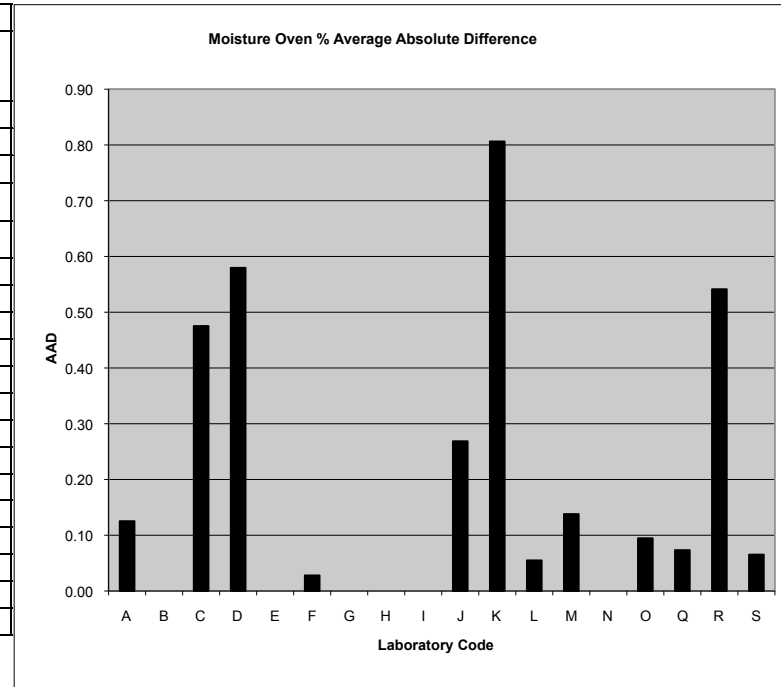
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	41.52	0.48	46.92	0.92	48.80	0.38	0.59	0.59
B								
C								
D	39.35	-1.70	44.12	-1.88	45.72	-2.70	-2.09	2.09
E	41.46	0.42	47.12	1.12	48.89	0.47	0.67	0.67
F	41.03	-0.02					-0.02	0.02
G								
H								
I								
J	40.80	-0.24	46.25	0.25	47.85	-0.57	-0.19	0.35
K								
L								
M	41.13	0.08	46.49	0.49	49.11	0.69	0.42	0.42
N								
O	41.03	-0.01	46.15	0.15	48.08	-0.34	-0.07	0.17
Q	40.94	-0.10	45.68	-0.32	48.44	0.02	-0.14	0.15
R								
S	40.45	-0.59	45.25	-0.75	47.75	-0.67	-0.67	0.67
MEAN	41.04		46.00		48.42			0.57
STDEV	0.34		0.97		0.54			



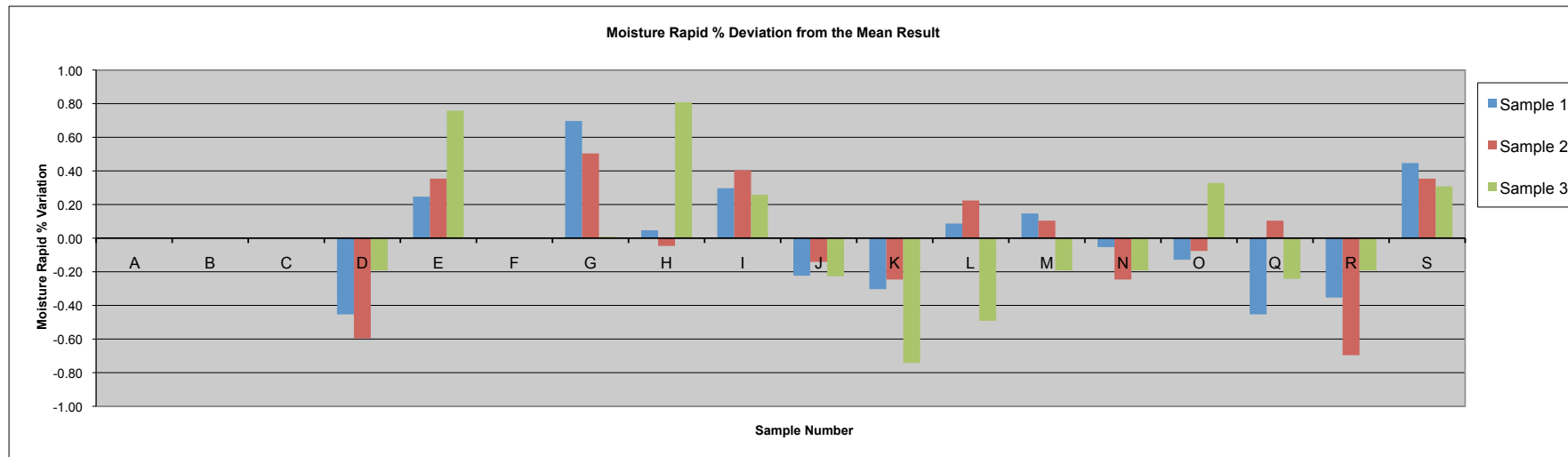
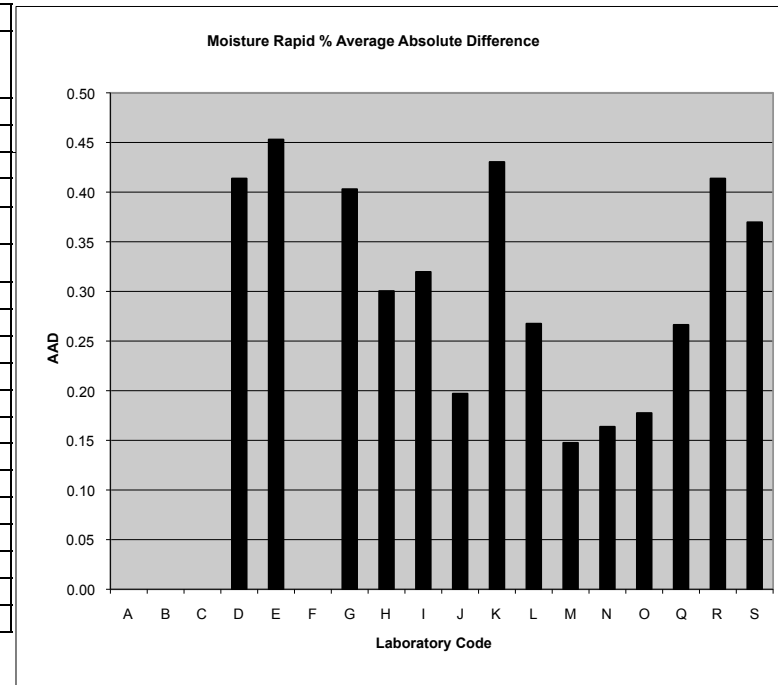
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	6.44	0.17	5.71	0.08	4.66	0.14	0.13	0.13
B								
C	6.75	0.48	6.15	0.52	4.95	0.43	0.48	0.48
D	5.71	-0.56	5.05	-0.59	3.93	-0.59	-0.58	0.58
E								
F	6.23	-0.04	5.60	-0.04	4.51	-0.01	-0.03	0.03
G								
H								
I								
J	6.46	0.19	5.91	0.28	4.87	0.35	0.27	0.27
K	5.58	-0.69	4.83	-0.81	3.60	-0.92	-0.81	0.81
L	6.22	-0.05	5.62	-0.01	4.62	0.10	0.01	0.05
M	6.18	-0.09	5.45	-0.19	4.38	-0.14	-0.14	0.14
N								
O	6.16	-0.11	5.48	-0.16	4.51	-0.01	-0.09	0.09
Q	6.27	0.00	5.79	0.15	4.45	-0.07	0.03	0.07
R	5.70	-0.57	4.90	-0.73	4.20	-0.32	-0.54	0.54
S	6.30	0.03	5.60	-0.04	4.65	0.13	0.04	0.07
MEAN	6.27		5.64		4.52			0.27
STDEV	0.27		0.29		0.29			



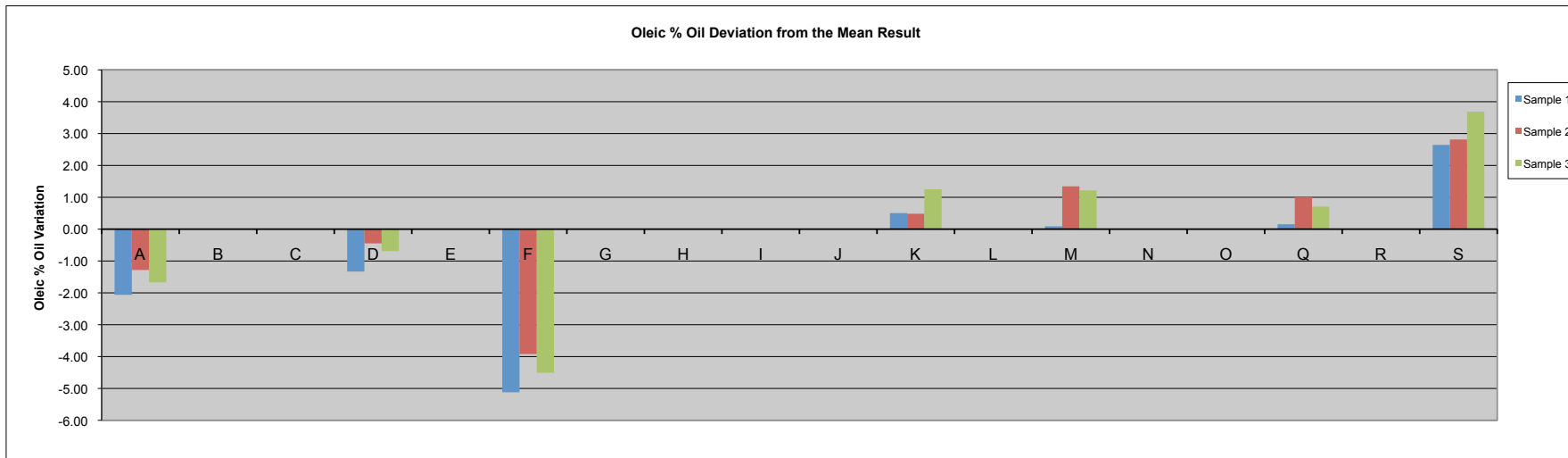
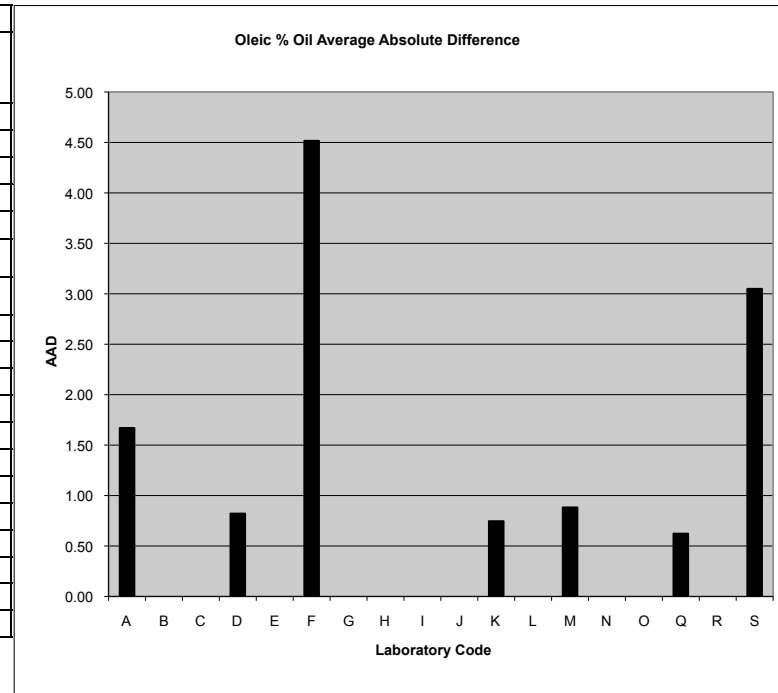
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C								
D	5.80	-0.45	5.00	-0.60	4.30	-0.19	-0.41	0.41
E	6.50	0.25	5.95	0.35	5.25	0.76	0.45	0.45
F								
G	6.95	0.70	6.10	0.50	4.50	0.01	0.40	0.40
H	6.30	0.05	5.55	-0.05	5.30	0.81	0.27	0.30
I	6.55	0.30	6.00	0.40	4.75	0.26	0.32	0.32
J	6.03	-0.22	5.46	-0.14	4.27	-0.23	-0.20	0.20
K	5.95	-0.30	5.35	-0.25	3.75	-0.74	-0.43	0.43
L	6.34	0.09	5.82	0.22	4.00	-0.49	-0.06	0.27
M	6.40	0.15	5.70	0.10	4.30	-0.19	0.02	0.15
N	6.20	-0.05	5.35	-0.25	4.30	-0.19	-0.16	0.16
O	6.13	-0.13	5.52	-0.08	4.82	0.33	0.04	0.18
Q	5.80	-0.45	5.70	0.10	4.25	-0.24	-0.20	0.27
R	5.90	-0.35	4.90	-0.70	4.30	-0.19	-0.41	0.41
S	6.70	0.45	5.95	0.35	4.80	0.31	0.37	0.37
MEAN	6.25		5.60		4.49			0.31
STDEV	0.35		0.36		0.44			



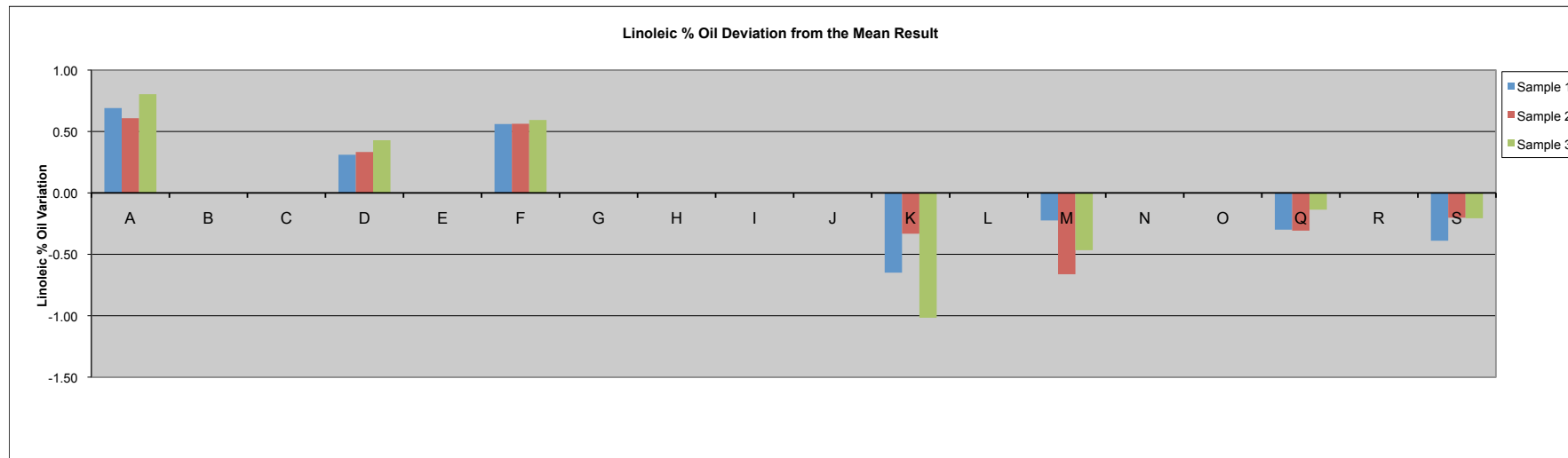
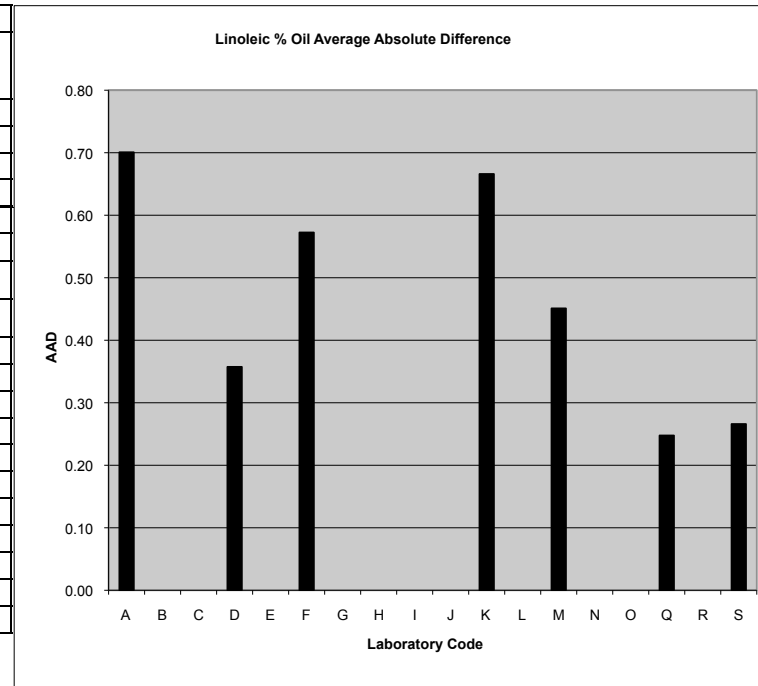
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	59.75	-2.06	62.51	-1.28	58.74	-1.67	-1.67	1.67
B								
C								
D	60.48	-1.33	63.34	-0.45	59.72	-0.69	-0.82	0.82
E								
F	56.69	-5.12	59.87	-3.92	55.90	-4.51	-4.52	4.52
G								
H								
I								
J								
K	62.31	0.50	64.27	0.48	61.66	1.25	0.75	0.75
L								
M	61.90	0.09	65.13	1.34	61.63	1.22	0.88	0.88
N								
O								
Q	61.96	0.15	64.80	1.01	61.12	0.71	0.62	0.62
R								
S	64.45	2.64	66.60	2.81	64.10	3.69	3.05	3.05
MEAN	61.81		63.79		60.41			1.76
STDEV	1.63		2.17		2.61			



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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	21.78	0.69	20.66	0.61	22.31	0.80	0.70	0.70
B								
C								
D	21.40	0.31	20.39	0.33	21.94	0.43	0.36	0.36
E								
F	21.65	0.56	20.62	0.56	22.10	0.59	0.57	0.57
G								
H								
I								
J								
K	20.44	-0.65	19.72	-0.33	20.49	-1.02	-0.67	0.67
L								
M	20.87	-0.22	19.39	-0.66	21.04	-0.47	-0.45	0.45
N								
O								
Q	20.79	-0.30	19.75	-0.31	21.37	-0.14	-0.25	0.25
R								
S	20.70	-0.39	19.85	-0.20	21.30	-0.21	-0.27	0.27
MEAN	21.09		20.05		21.51			0.47
STDEV	0.52		0.50		0.64			



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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	0.20	-0.09	0.10	-0.10	0.04	-0.06	-0.08	0.08
B								
C								
D	0.23	-0.05	0.18	-0.03	0.15	0.04	-0.01	0.04
E								
F	0.34	0.05	0.26	0.06	0.18	0.07	0.06	0.06
G								
H								
I								
J								
K	0.49	0.21	0.42	0.22	0.61	0.50	0.31	0.31
L								
M	0.40	0.12	0.24	0.03	0.16	0.06	0.07	0.07
N								
O	0.23	-0.05	0.15	-0.05	0.06	-0.04	-0.05	0.05
Q	0.17	-0.11	0.17	-0.03	0.06	-0.04	-0.06	0.06
R								
S	0.20	-0.08	0.12	-0.08	0.08	-0.02	-0.06	0.06
MEAN	0.28		0.20		0.10			0.09
STDEV	0.11		0.10		0.05			

