



**AOF Test Check Program
Bimonthly Report
Round 3
May – 2017**

Result Receival Dates

Lab Code	Date
A	31/05/2017
B	
C	02/05/2017
D	30/05/2017
E	15/05/2017
F	30/05/2017
G	02/05/2017
H	24/04/2017
I	10/05/2017
J	31/05/2017
K	27/04/2017
L	22/05/2017
M	31/05/2017
N	
O	11/05/2017
Q	
R	31/05/2017
S	31/05/2017

Discussion of Results

Test Weight

No outliers were observed for this test.

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 0.59% discrepancy from the lower quartile limit (0.8%).



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Oil Rapid

No outliers were observed for this test.

Oil Solvent Extraction

No outliers were observed for this test.

Standard deviation of each test was within the reproducibility limit for ISO659:2009. 6 of the 8 labs were participating within protocol guidelines outlined by ISO659:2009.

Removal of results submitted by laboratories not participating at the capacity outlined by the method protocol has a minor effect on the mean results. All sample set mean results increased across samples from a minimum of 0.01 to a maximum of 0.18% (not stated). The removal of these results also decreased standard deviation in one set by 0.18 while increasing standard deviation in another set by 0.06 (not stated). Decreasing the population of participants to 6 laboratories has the expected increase in error values.

Moisture Oven

Sample 1 – One outlier was identified for Lab **D** with a 0.11 of a percent discrepancy from the lower quartile limit (5.08%).

Sample 2 – One outlier was identified for Lab **D** with a 0.39 of a percent discrepancy from the lower quartile limit (5.35%).

Sample 3 – One outlier was identified for Lab **D** with a 0.49 of a percent discrepancy from the lower quartile limit (4.55%).

Moisture Rapid

No outliers were observed for this test.

Oleic acid

Sample 1 – One outlier was identified for Lab **D** with a 0.33 of a percent discrepancy from the upper quartile limit (59.43%).

Sample 2 – One outlier was identified for Lab **D** with a 0.73 of a percent discrepancy from the upper quartile limit (54.38%).

Sample 3 – One outlier was identified for Lab **D** with a 0.50 of a percent discrepancy from the upper quartile limit (61.22%).



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Linoleic acid

Sample 1 – No outliers were observed for this test.

Sample 2 – One outlier was identified for Lab **F** with a 0.06 of a percent discrepancy from the lower quartile limit (25.92%).

Sample 3 – One outlier was identified for Lab **D** with a 0.13 of a percent discrepancy from the lower quartile limit (21.30%).

Linolenic acid

Sample 1 – One outlier was identified for Lab **D** with a 0.23 of a percent discrepancy from the lower quartile limit (10.46%).

Sample 2 – One outlier was identified for Lab **D** with a 0.62 of a percent discrepancy from the lower quartile limit (11.40%).

Sample 3 – One outlier was identified for Lab **D** with a 0.32 of a percent discrepancy from the lower quartile limit (9.63%).

Free Fatty Acid

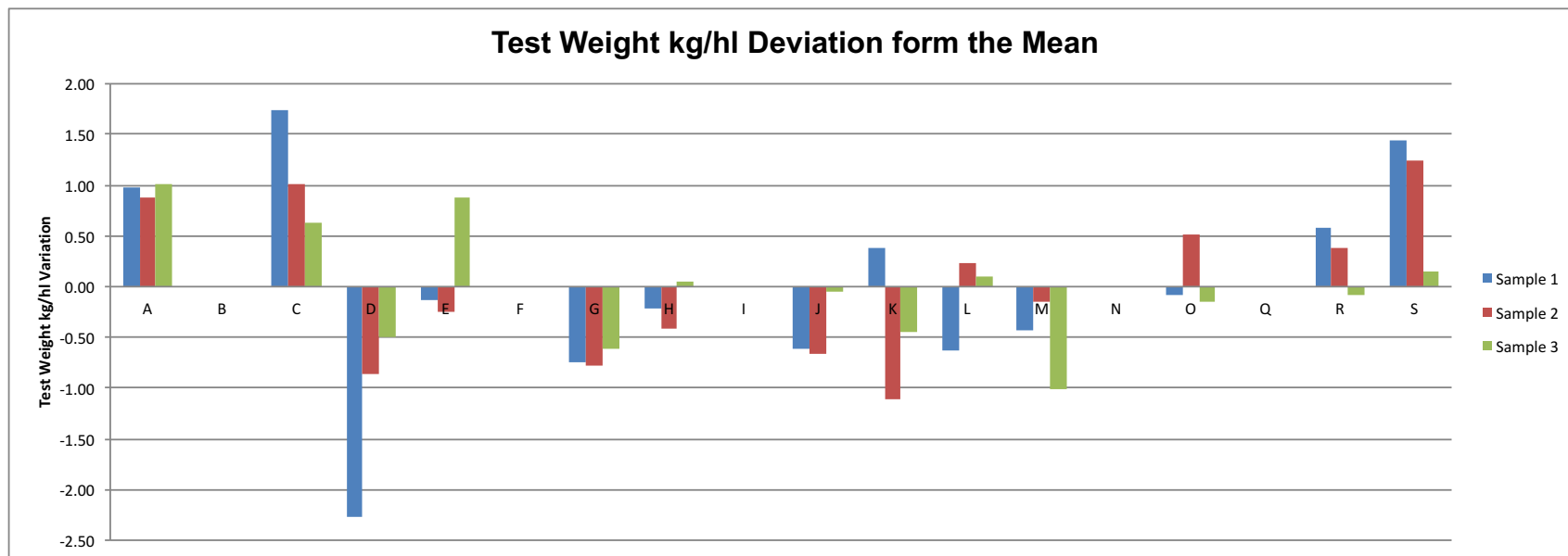
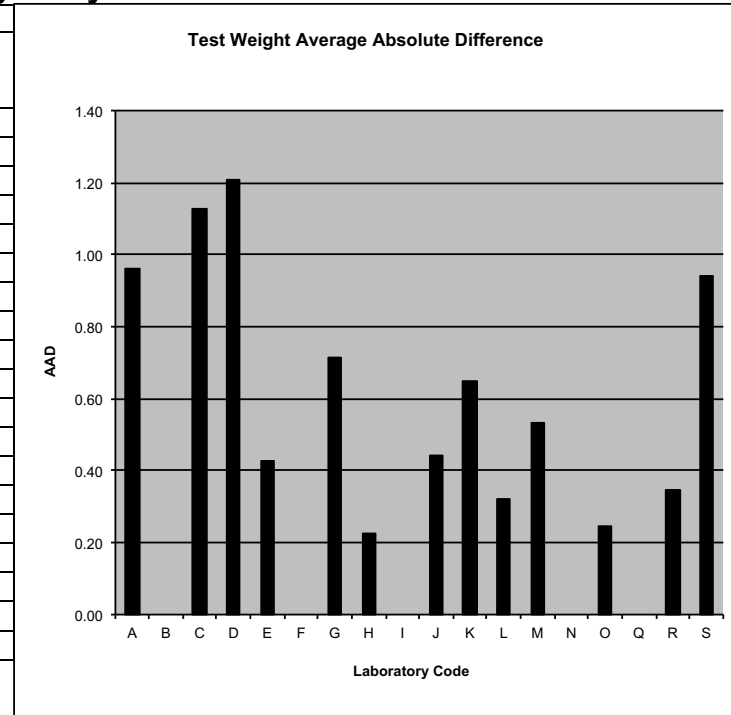
Sample 1 – One outlier was identified for Lab **D** a result situated at the upper quartile limit of 0.36%.

Sample 2 – No outliers were observed for this test.

Sample 3 – No outliers were observed for this test.

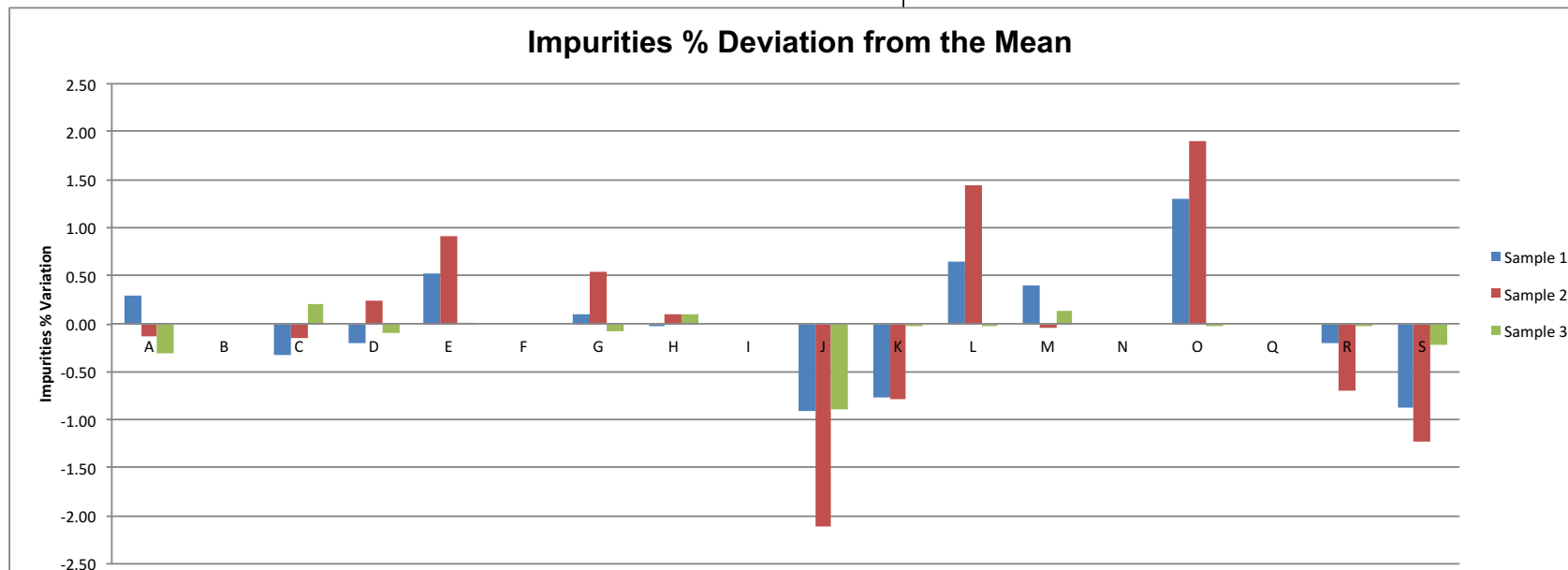
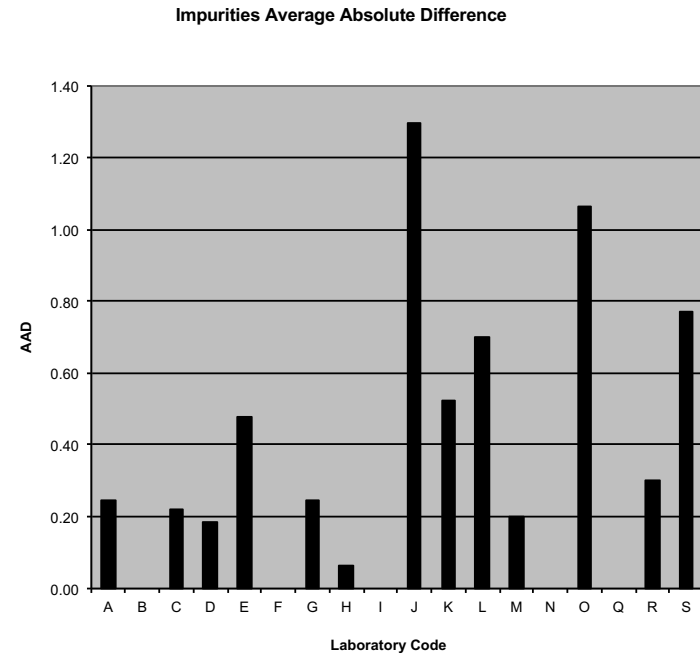
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Test Weight kg/hl								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	67.50	0.99	70.00	0.89	66.75	1.00	0.96	0.96
B								
C	68.26	1.74	70.13	1.02	66.38	0.63	1.13	1.13
D	64.25	-2.26	68.25	-0.86	65.25	-0.50	-1.21	1.21
E	66.38	-0.13	68.86	-0.25	66.63	0.88	0.17	0.42
F								
G	65.77	-0.74	68.33	-0.78	65.14	-0.61	-0.71	0.71
H	66.30	-0.21	68.70	-0.41	65.80	0.05	-0.19	0.23
I								
J	65.90	-0.61	68.45	-0.66	65.70	-0.05	-0.44	0.44
K	66.90	0.39	68.00	-1.11	65.30	-0.45	-0.39	0.65
L	65.89	-0.63	69.35	0.23	65.85	0.10	-0.10	0.32
M	66.08	-0.43	68.96	-0.15	64.74	-1.01	-0.53	0.53
N								
O	66.43	-0.08	69.62	0.51	65.60	-0.15	0.09	0.25
Q								
R	67.09	0.58	69.49	0.38	65.67	-0.08	0.29	0.34
S	67.95	1.44	70.35	1.24	65.90	0.15	0.94	0.94
MEAN	66.51		69.11		65.75			0.63
STDEV	1.05		0.77		0.58			



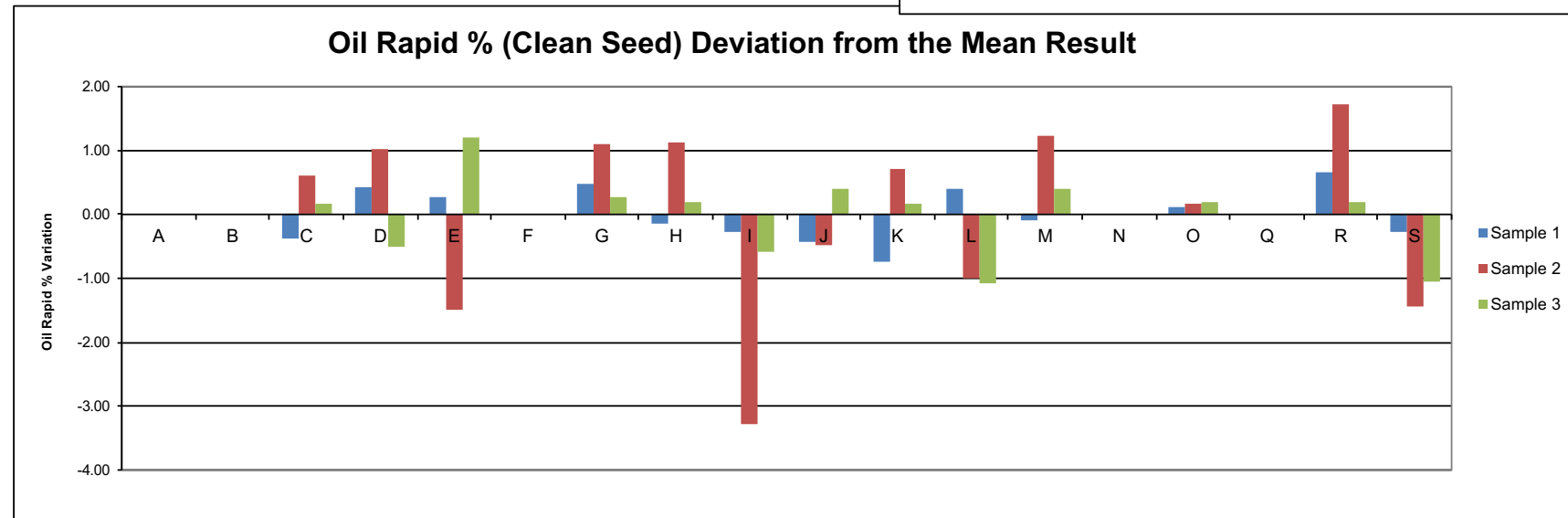
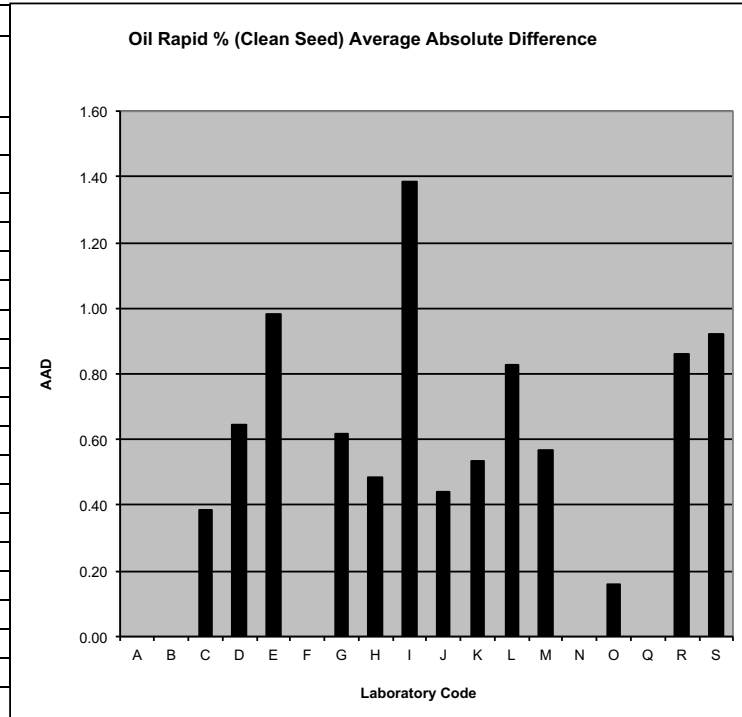
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Impurities %								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	1.91	0.30	2.38	-0.13	0.79	-0.31	-0.05	0.25
B								
C	1.29	-0.32	2.35	-0.15	1.30	0.20	-0.09	0.22
D	1.40	-0.20	2.75	0.25	1.00	-0.10	-0.02	0.18
E	2.12	0.52	3.42	0.92	1.11	0.00	0.48	0.48
F								
G	1.71	0.10	3.05	0.55	1.02	-0.08	0.19	0.24
H	1.60	0.00	2.60	0.10	1.20	0.10	0.06	0.07
I								
J	0.70	-0.90	0.40	-2.10	0.21	-0.89	-1.30	1.30
K	0.84	-0.77	1.72	-0.78	1.09	-0.02	-0.52	0.52
L	2.25	0.64	3.95	1.44	1.08	-0.02	0.69	0.70
M	2.01	0.41	2.46	-0.05	1.25	0.14	0.17	0.20
N								
O	2.90	1.30	4.40	1.90	1.10	0.00	1.06	1.07
Q								
R	1.40	-0.20	1.80	-0.70	1.10	0.00	-0.30	0.30
S	0.73	-0.87	1.27	-1.23	0.89	-0.21	-0.77	0.77
MEAN	1.60		2.50		1.10			0.49
STDEV	0.64		1.08		0.11			



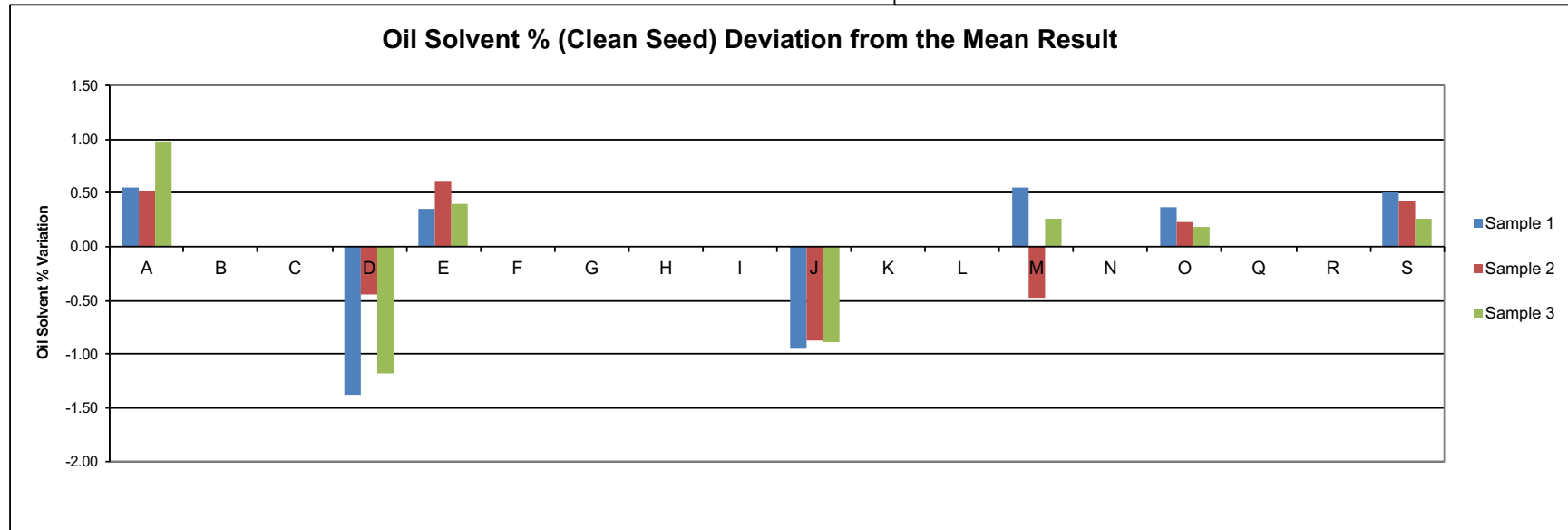
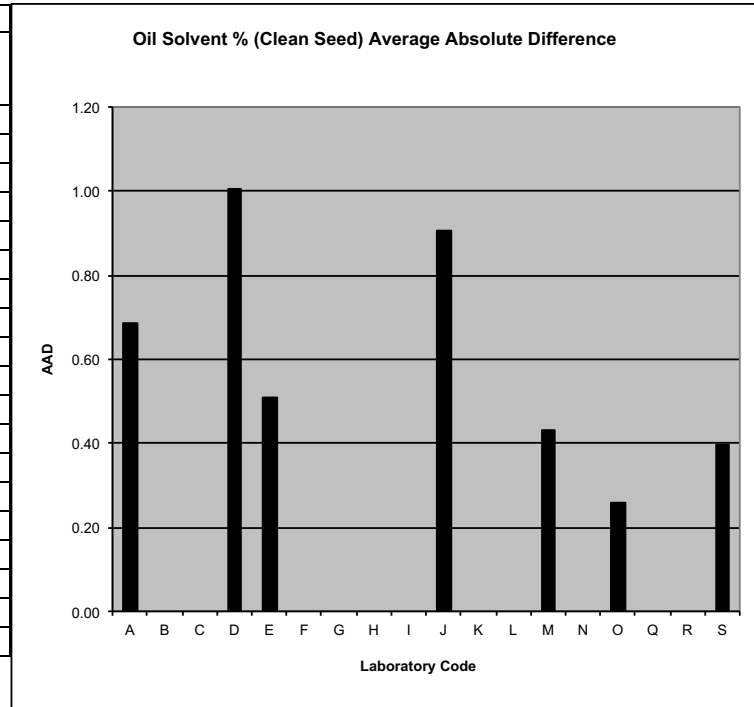
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Oil Rapid % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	46.05	-0.38	43.50	0.62	49.90	0.15	0.13	0.39
D	46.85	0.42	43.90	1.02	49.25	-0.50	0.31	0.64
E	46.70	0.27	41.40	-1.48	50.95	1.20	0.00	0.98
F								
G	46.90	0.47	43.99	1.11	50.03	0.28	0.62	0.62
H	46.30	-0.13	44.00	1.12	49.95	0.20	0.40	0.49
I	46.15	-0.28	39.60	-3.28	49.15	-0.60	-1.39	1.39
J	46.00	-0.43	42.40	-0.48	50.15	0.40	-0.17	0.44
K	45.70	-0.73	43.60	0.72	49.90	0.15	0.05	0.54
L	46.83	0.40	41.87	-1.01	48.67	-1.08	-0.56	0.83
M	46.35	-0.08	44.10	1.22	50.15	0.40	0.51	0.57
N								
O	46.55	0.12	43.05	0.17	49.95	0.20	0.16	0.16
Q								
R	47.10	0.67	44.60	1.72	49.95	0.20	0.86	0.86
S	46.15	-0.28	41.45	-1.43	48.70	-1.05	-0.92	0.92
MEAN	46.43		42.88		49.75			0.68
STDEV	0.42		1.45		0.64			



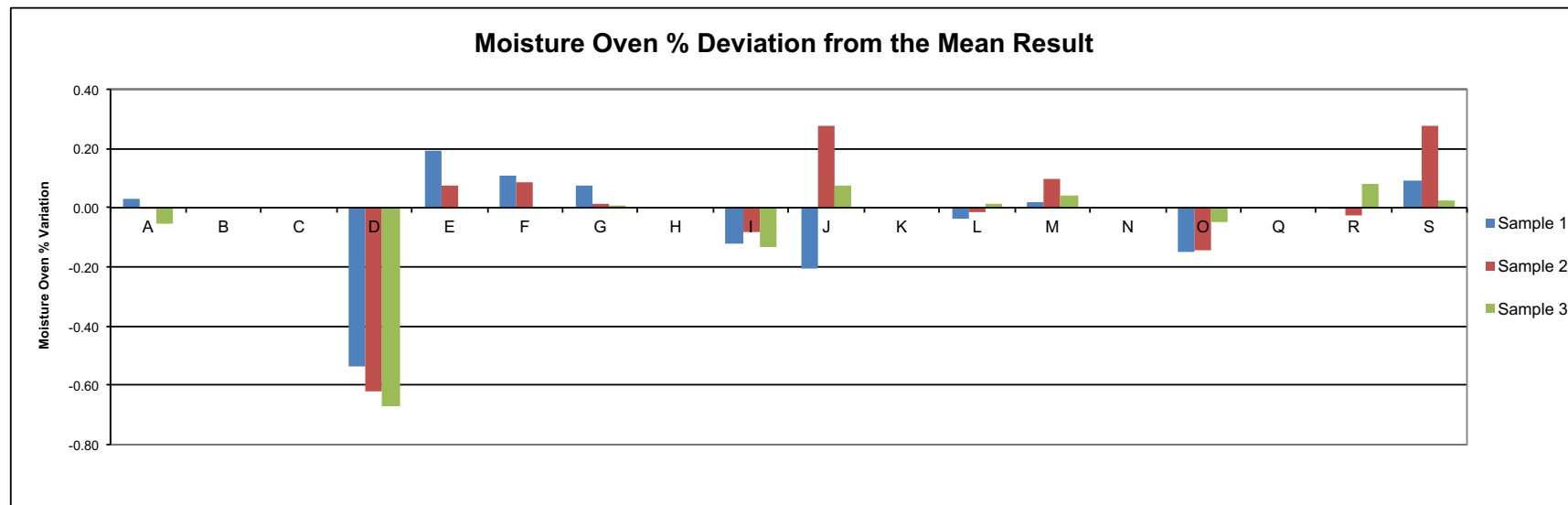
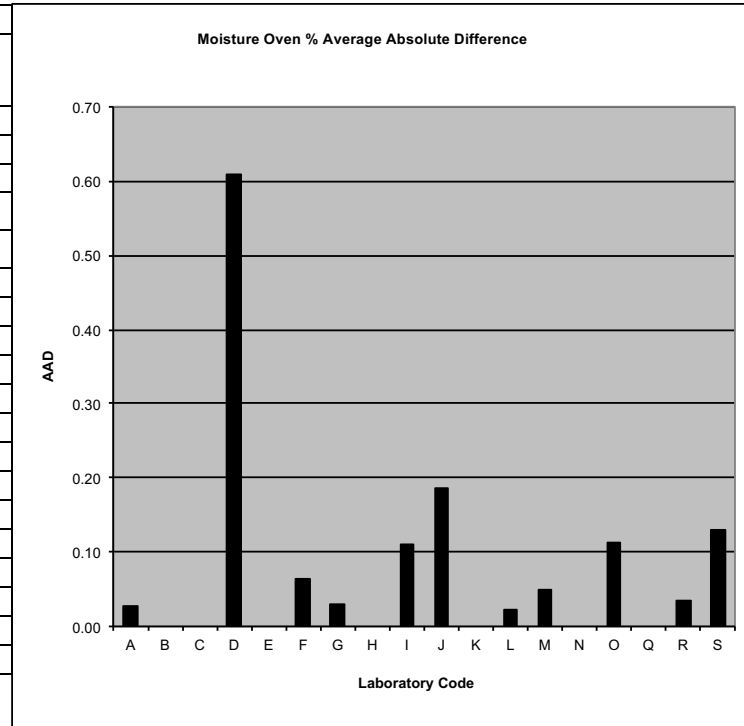
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Oil Solvent % (Clean Seed) Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	47.30	0.55	43.40	0.53	51.52	0.97	0.68	0.68
B								
C								
D	45.36	-1.38	42.43	-0.44	49.36	-1.19	-1.00	1.00
E	47.09	0.35	43.49	0.62	50.95	0.40	0.51	0.51
F								
G								
H								
I								
J	45.80	-0.94	42.00	-0.87	49.65	-0.90	-0.90	0.90
K								
L								
M	47.30	0.56	42.40	-0.47	50.81	0.27	0.12	0.43
N								
O	47.11	0.36	43.10	0.23	50.73	0.18	0.26	0.26
Q								
R								
S	47.25	0.51	43.30	0.43	50.80	0.25	0.40	0.40
MEAN	46.74		42.87		50.55			0.60
STDEV	0.81		0.59		0.76			



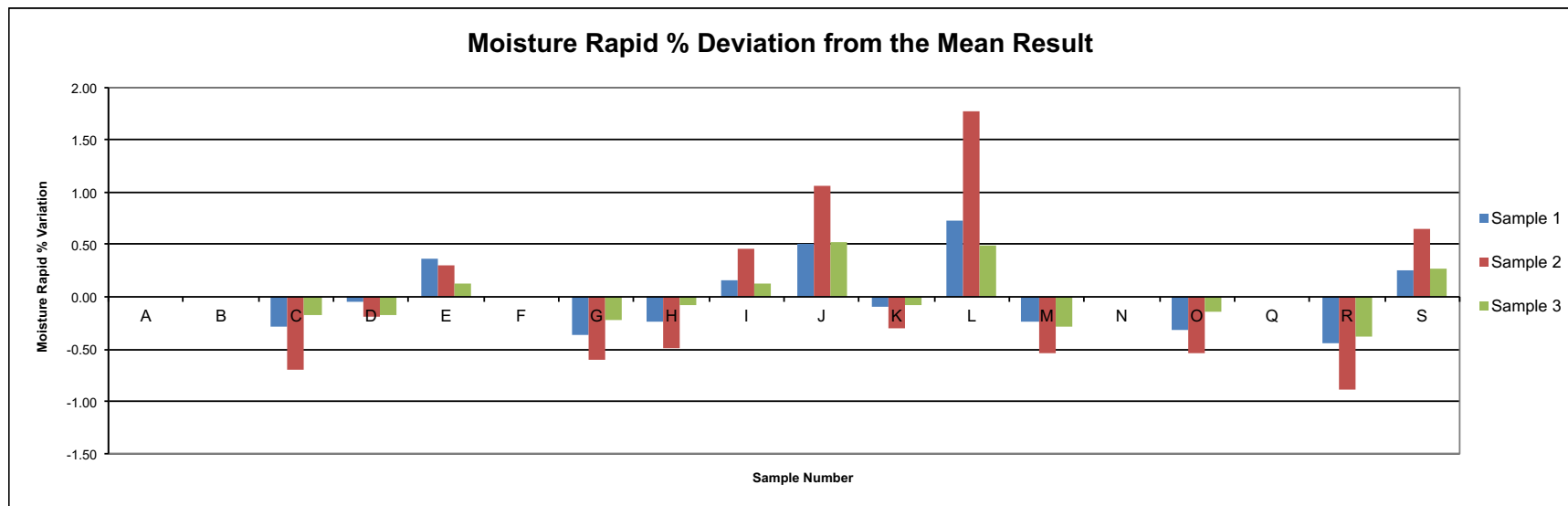
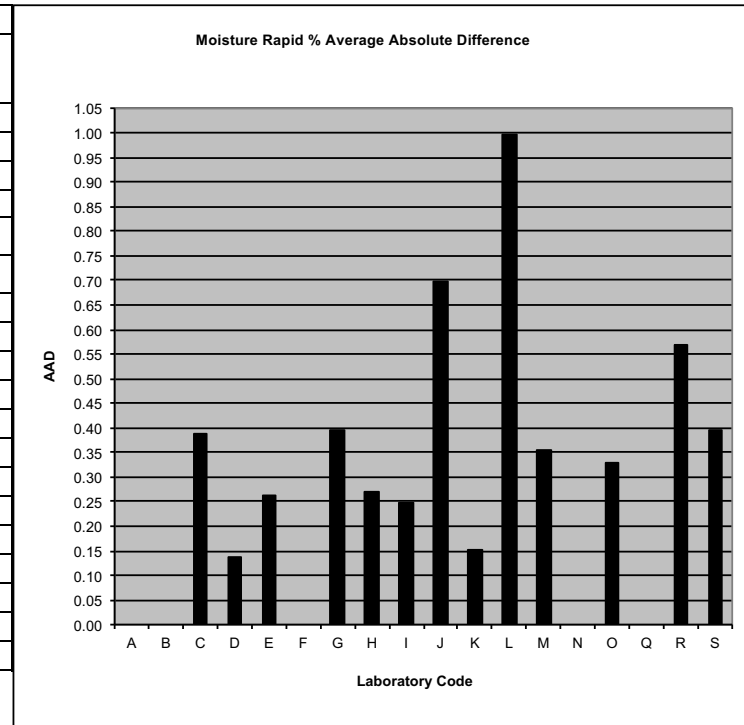
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Moisture Oven % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	5.54	0.03	5.58	0.00	4.67	-0.06	-0.01	0.03
B								
C								
D	4.97	-0.54	4.96	-0.62	4.06	-0.67	-0.61	0.61
E	5.70	0.19	5.65	0.07				
F	5.62	0.11	5.66	0.08	4.73	0.00	0.06	0.06
G	5.58	0.07	5.59	0.01	4.73	0.00	0.03	0.03
H								
I	5.39	-0.12	5.50	-0.08	4.60	-0.13	-0.11	0.11
J	5.30	-0.21	5.85	0.27	4.80	0.07	0.05	0.19
K								
L	5.47	-0.04	5.56	-0.02	4.74	0.01	-0.01	0.02
M	5.53	0.02	5.67	0.09	4.77	0.04	0.05	0.05
N								
O	5.36	-0.15	5.43	-0.15	4.68	-0.05	-0.11	0.11
Q								
R	5.51	0.00	5.55	-0.03	4.81	0.08	0.02	0.04
S	5.60	0.09	5.85	0.27	4.75	0.02	0.13	0.13
MEAN	5.51		5.58		4.73			0.13
STDEV	0.12		0.08		0.06			



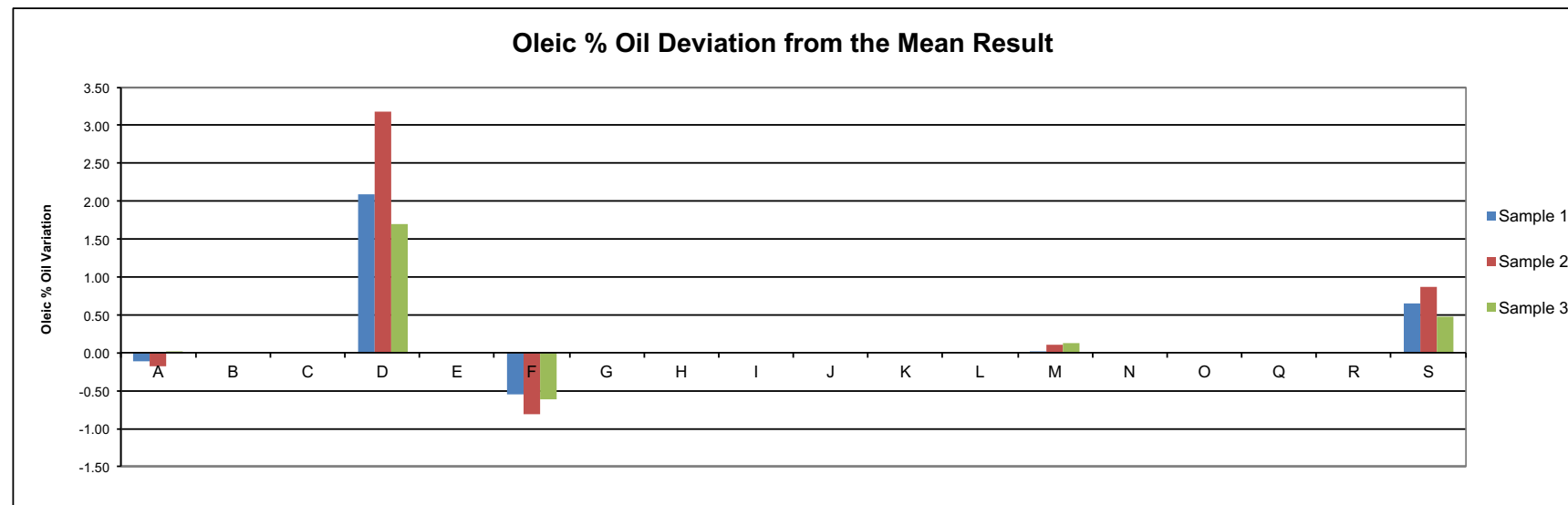
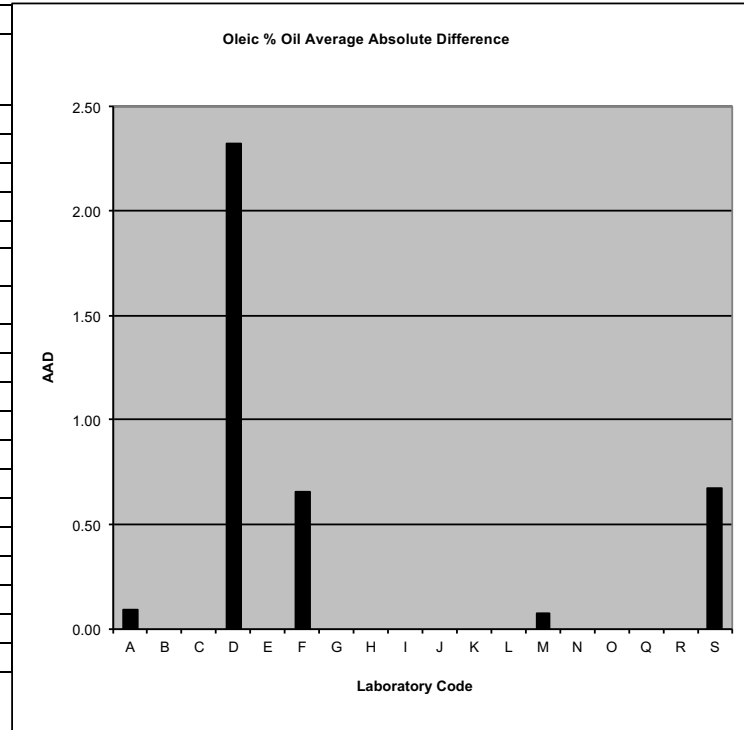
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Moisture Rapid % Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B								
C	4.95	-0.29	4.45	-0.69	4.40	-0.18	-0.39	0.39
D	5.20	-0.04	4.95	-0.19	4.40	-0.18	-0.14	0.14
E	5.60	0.36	5.45	0.31	4.70	0.12	0.26	0.26
F								
G	4.88	-0.36	4.54	-0.60	4.35	-0.23	-0.40	0.40
H	5.00	-0.24	4.65	-0.49	4.50	-0.08	-0.27	0.27
I	5.40	0.16	5.60	0.46	4.70	0.12	0.25	0.25
J	5.75	0.51	6.20	1.06	5.10	0.52	0.70	0.70
K	5.15	-0.09	4.85	-0.29	4.50	-0.08	-0.15	0.15
L	5.97	0.73	6.93	1.78	5.07	0.49	1.00	1.00
M	5.00	-0.24	4.60	-0.54	4.30	-0.28	-0.35	0.35
N								
O	4.93	-0.32	4.61	-0.54	4.44	-0.14	-0.33	0.33
Q								
R	4.80	-0.44	4.25	-0.89	4.20	-0.38	-0.57	0.57
S	5.50	0.26	5.80	0.66	4.85	0.27	0.40	0.40
MEAN	5.24		5.14		4.58			0.40
STDEV	0.37		0.80		0.29			



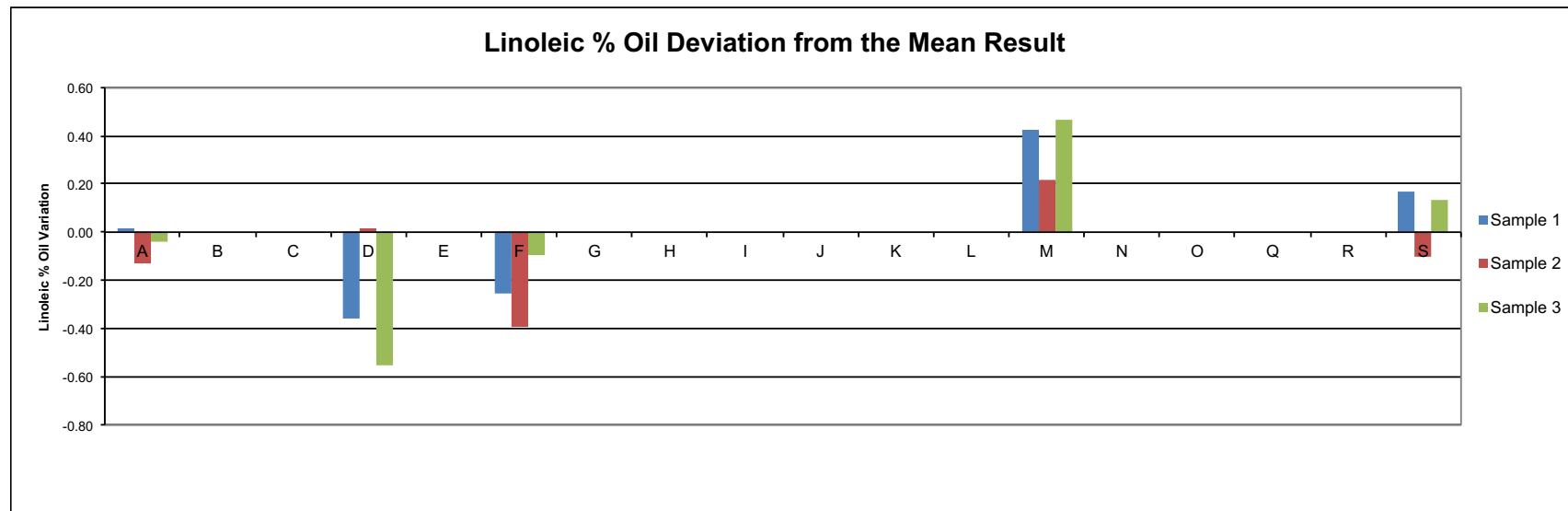
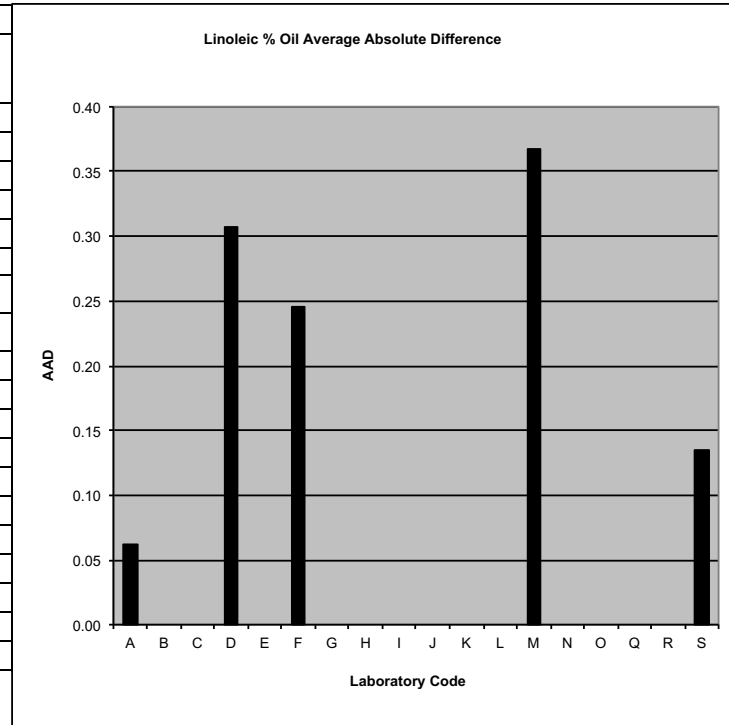
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Oleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	57.55	-0.11	51.75	-0.17	60.02	0.00	-0.09	0.09
B								
C								
D	59.75	2.09	55.10	3.18	61.72	1.70	2.33	2.33
E								
F	57.10	-0.55	51.11	-0.81	59.40	-0.62	-0.66	0.66
G								
H								
I								
J								
K								
L								
M	57.66	0.00	52.02	0.10	60.15	0.13	0.08	0.08
N								
O								
Q								
R								
S	58.30	0.65	52.80	0.88	60.50	0.48	0.67	0.67
MEAN	57.65		51.92		60.02			0.77
STDEV	0.50		0.70		0.46			



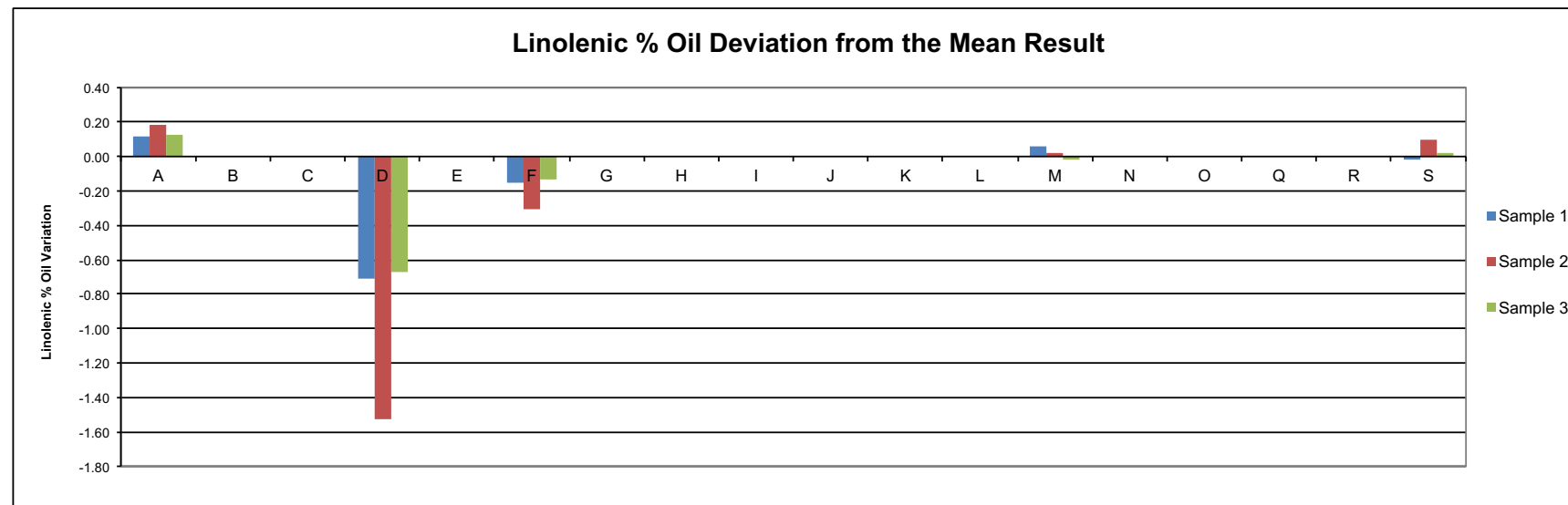
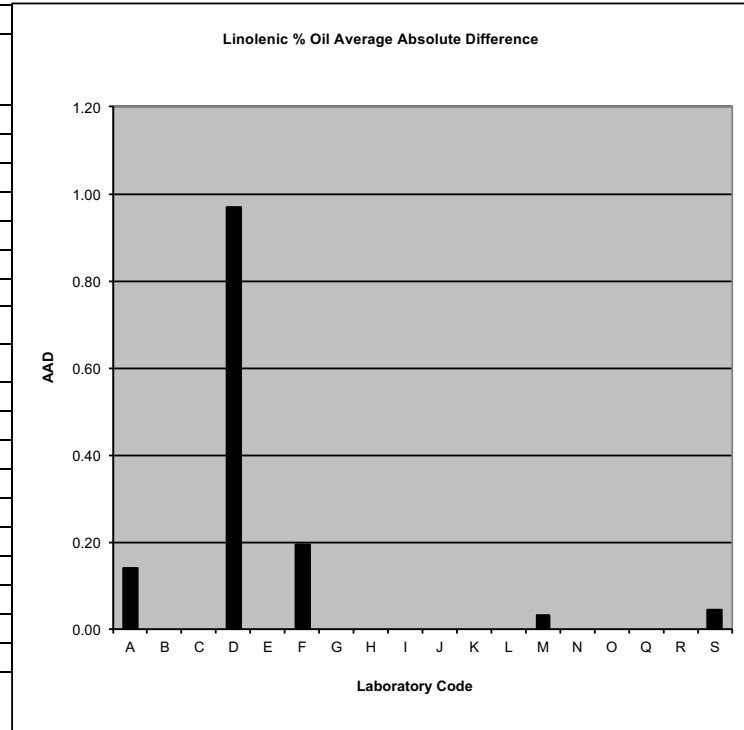
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Linoleic % Oil Deviation from the Mean								
Lab	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	22.65	0.02	26.13	-0.13	21.68	-0.04	-0.05	0.06
B								
C								
D	22.28	-0.36	26.27	0.01	21.17	-0.55	-0.30	0.31
E								
F	22.38	-0.25	25.86	-0.39	21.63	-0.09	-0.25	0.25
G								
H								
I								
J								
K								
L								
M	23.06	0.42	26.47	0.22	22.18	0.46	0.37	0.37
N								
O								
Q								
R								
S	22.80	0.17	26.15	-0.10	21.85	0.13	0.07	0.13
MEAN	22.63		26.25		21.72			0.22
STDEV	0.32		0.16		0.12			



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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	11.04	0.12	12.49	0.19	10.11	0.13	0.14	0.14
B								
C								
D	10.22	-0.71	10.78	-1.53	9.31	-0.68	-0.97	0.97
E								
F	10.77	-0.15	12.00	-0.31	9.85	-0.13	-0.20	0.20
G								
H								
I								
J								
K								
L								
M	10.98	0.06	12.33	0.03	9.97	-0.02	0.02	0.03
N								
O								
Q								
R								
S	10.90	-0.02	12.40	0.10	10.00	0.02	0.03	0.04
MEAN	10.92		12.31		9.98			0.28
STDEV	0.11		0.21		0.11			



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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	0.12	-0.04	0.25	-0.11	0.07	-0.07	-0.07	0.07
B								
C								
D	0.19	0.04	0.40	0.05	0.13	-0.01	0.03	0.03
E								
F	0.22	0.06	0.49	0.14	0.19	0.04	0.08	0.08
G								
H								
I								
J	0.36	0.20	0.45	0.09	0.22	0.08	0.12	0.12
K								
L								
M	0.21	0.05	0.41	0.05	0.19	0.04	0.05	0.05
N								
O	0.12	-0.04	0.24	-0.11	0.08	-0.06	-0.07	0.07
Q								
R								
S	0.08	-0.08	0.23	-0.13	0.12	-0.02	-0.07	0.07
MEAN	0.16		0.35		0.14			0.07
STDEV	0.06		0.11		0.06			

