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Lampiran 1 Data Mentah *Sludge centrifuge* Umur 92,44 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	62,9674	64,7169	63,4937	62,7312	64,7169
THIMBLE + SAMPEL BASAH	(gr)	83,8497	84,7707	83,4632	83,6612	84,2021
SAMPLE BASAH	(gr)	20,8823	20,0538	19,9695	20,9300	19,4852
THIMBLE + SAMPLE KERING	(gr)	64,6067	65,9967	64,587	64,6081	65,6513
SAMPLE KERING	(gr)	19,2430	18,7740	18,8762	19,0531	18,5508
MOISTURE	(%)	92,15	93,62	94,53	91,03	95,20
WADAH	(gr)	90,8765	101,66	89,7983	90,8452	102
WADAH + MINYAK	(gr)	91,0001	101,7835	89,9345	91,0001	102,2701
MINYAK	(gr)	0,1236	0,1235	0,1362	0,1549	0,17012
OIL / WM	(%)	0,59	0,62	0,68	0,74	0,87
OIL / DM	(%)	7,52	9,72	12,43	8,25	18,13
DM / WM	(%)	7,85	6,38	5,47	8,97	4,80
NOS	(%)	7,26	5,76	4,79	8,23	3,93
HOURS METER	minute	2884374,00	2884374,00	2884374,00	2884374,00	2884374,00
Rotation Per Minute	minute	1296,10	1269,00	1252,20	1248,30	1247,90
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 2 Data Mentah *Sludge centrifuge* Umur 14,6 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	64,0345	64,921	64,4131	61,8121	63,827
THIMBLE + SAMPEL BASAH	(gr)	84,1723	84,9439	84,5305	81,8451	84,4002
SAMPLE BASAH	(gr)	20,1378	20,0229	20,1174	20,0330	20,5732
THIMBLE + SAMPLE KERING	(gr)	64,5747	65,4932	65,53	63,9387	65,0805
SAMPLE KERING	(gr)	19,5976	19,4507	19,0005	17,9064	19,3197
MOISTURE	(%)	97,32	97,14	94,45	89,38	93,91
WADAH	(gr)	91,6399	87,8096	87,2756	89,7654	93,6328
WADAH + MINYAK	(gr)	91,7532	87,9974	87,4053	90	93,8322
MINYAK	(gr)	0,1133	0,1878	0,1297	0,1287	0,1994
OIL / WM	(%)	0,56	0,94	0,64	0,64	0,97
OIL / DM	(%)	20,9	32,87	11,53	6,03	15,93
DM / WM	(%)	2,68	2,86	5,55	10,62	6,09
NOS	(%)	2,12	1,92	4,91	9,98	5,12
HOURS METER	minute	455815,00	455825,00	455835,00	455845,00	455855,00
Rotation Per Minute	minute	1292,00	1190,60	1184,10	1182,90	1116,20
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 3 Data Mentah *Sludge centrifuge* Umur 81,38 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	63,9611	63,6089	64,0091	64,1332	63,7403
THIMBLE + SAMPEL BASAH	(gr)	84,1592	83,6816	85,0849	84,4376	83,7419
SAMPLE BASAH	(gr)	20,1981	20,0727	21,0758	20,3044	20,0016
THIMBLE + SAMPLE KERING	(gr)	64,9788	64,5551	65,1423	65,4191	64,9594
SAMPLE KERING	(gr)	19,1804	19,1265	19,9426	19,0185	18,7825
MOISTURE	(%)	94,96	95,29	94,62	93,67	93,90
WADAH	(gr)	89,4289	89,4225	89,4266	89,4241	89,4294
WADAH + MINYAK	(gr)	90	90	90	90	90
MINYAK	(gr)	0	0,1149	0	0	0,121
OIL / WM	(%)	0,56	0,57	0,62	0,56	0,60
OIL / DM	(%)	11,11	12,10	11,52	8,85	9,84
DM / WM	(%)	5,04	4,71	5,38	6,33	6,10
NOS	(%)	4,48	4,14	4,76	5,77	5,50
HOURS METER	minute	2539331,00	2539441,00	2539771,00	2539661,00	2539771,00
Rotation Per Minute	minute	1225,50	1224,90	1224,70	1224,50	1223,40
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 4. Data Mentah *Sludge centrifuge* Umur 83 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	64,4929	64,717	64,9111	64,7449	65,898
THIMBLE + SAMPEL BASAH	(gr)	84,4968	85,4593	84,9111	84,9525	85,9296
SAMPLE BASAH	(gr)	20,0039	20,7423	20,0000	20,2076	20,0316
THIMBLE + SAMPLE KERING	(gr)	65,8203	66,0019	66,2425	65,7574	67,1662
SAMPLE KERING	(gr)	18,6765	19,4574	18,6686	19,1951	18,7634
MOISTURE	(%)	93,36	93,81	93,34	94,99	93,67
WADAH	(gr)	105,5276	105,5348	105,5244	105,5321	105,5301
WADAH + MINYAK	(gr)	106	105,7713	105,7487	105,743	105,7242
MINYAK	(gr)	0	0	0,2243	0,2109	0,1941
OIL / WM	(%)	1,36	1,14	1,12	1,04	0,97
OIL / DM	(%)	20,48	18,42	16,82	20,76	15,32
DM / WM	(%)	6,64	6,19	6,66	5,01	6,33
NOS	(%)	5,28	5,05	5,54	3,97	5,36
HOURS METER	minute	2590333,00	2590433,00	2590533,00	2590633,00	2590733,00
Rotation Per Minute	minute	1146,40	1140,60	1144,80	1147,80	1130,40
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 5. Data Mentah *Sludge centrifuge* Umur 75 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	63,774	63,8413	64,0733	64,067	63,3848
THIMBLE + SAMPEL BASAH	(gr)	84,8727	84,125	84,1258	85,2644	83,6235
SAMPLE BASAH	(gr)	21,0987	20,2837	20,0525	21,1974	20,2387
THIMBLE + SAMPLE KERING	(gr)	65,0241	65,3846	65,5024	66,4891	64,5808
SAMPLE KERING	(gr)	19,8486	18,7404	18,6234	18,7753	19,0427
MOISTURE	(%)	94,07	92,39	92,87	88,57	94,09
WADAH	(gr)	104,2535	104,2559	104,256	105,524	104,2602
WADAH + MINYAK	(gr)	105	104,561	104,6384	105,7682	104,4915
MINYAK	(gr)	0	0,3051	0,3824	0,2442	0,2313
OIL / WM	(%)	1,17	1,50	1,91	1,15	1,14
OIL / DM	(%)	19,73	19,71	26,79	10,06	19,29
DM / WM	(%)	5,93	7,61	7,13	11,43	5,91
NOS	(%)	4,76	6,11	5,22	10,28	4,77
HOURS METER	minute	2344310,00	2334407,00	2334504,00	2334602,00	2334703,00
Rotation Per Minute	minute	1167,30	1168,90	1167,40	1165,30	1262,10
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 6. Data Mentah *Sludge centrifuge* Umur 74,76 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	64	63,3629	63,4136	63,5413	62,4632
THIMBLE + SAMPEL BASAH	(gr)	84	83,2252	83,434	83,951	82,5789
SAMPLE BASAH	(gr)	19,9389	19,8623	20,0204	20,4097	20,1157
THIMBLE + SAMPLE KERING	(gr)	65,0711	64,5929	64,8053	65,0008	65,8299
SAMPLE KERING	(gr)	18,7348	18,6323	18,6287	18,9502	16,7490
MOISTURE	(%)	93,96	93,81	93,05	92,85	83,26
WADAH	(gr)	99,5584	101,9766	89,7684	104,2474	86,7349
WADAH + MINYAK	(gr)	99	102,1146	89,8979	104,3801	86,864
MINYAK	(gr)	0,1328	0,138	0,1295	0,1327	0,1291
OIL / WM	(%)	0,67	0,69	0,65	0,65	0,64
OIL / DM	(%)	6,04	11,15	9,35	9,09	3,82
DM / WM	(%)	6,00	6,19	6,95	7,15	16,74
NOS	(%)	0,11	5,50	6,30	6,50	16,10
HOURS METER	minute	2332571,00	2332671,00	2332771,00	2332871,00	2332971,00
Rotation Per Minute	minute	1287,90	1309,20	1295,80	1306,20	1295,40
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 7. Data Mentah *Sludge centrifuge* Umur 65,63 Bulan

KETERANGAN		Percobaan	Percobaan	Percobaan	Percobaan	Percobaan
		1	2	3	4	5
THIMBLE	(gr)	64,7202	64,576	65,0039	64,9165	64,789
THIMBLE + SAMPEL BASAH	(gr)	84,0127	84,9918	85,2778	85,1814	87,7818
SAMPLE BASAH	(gr)	19,2925	20,4158	20,2739	20,2649	22,9928
THIMBLE + SAMPLE KERING	(gr)	66,0664	65,8285	66,3527	65,8934	66,5268
SAMPLE KERING	(gr)	17,9463	19,1633	18,9251	19,2880	21,2550
MOISTURE	(%)	93,02	93,87	93,35	95,18	92,44
WADAH	(gr)	104,6795	101,9232	104,68	104,6827	104,6807
WADAH + MINYAK	(gr)	105	102,0508	104,8799	104,8492	104,8387
MINYAK	(gr)	0	0,1276	0,1999	0,1665	0,158
OIL / WM	(%)	0,84	0,63	0,99	0,82	0,69
OIL / DM	(%)	12,03	10,28	14,89	17,01	9,13
DM / WM	(%)	6,98	6,13	6,65	4,82	7,56
NOS	(%)	6,14	5,50	5,66	4,00	6,87
HOURS METER	minute	2047876,00	2047901,00	2048090,00	2048172,00	2048274,00
Rotation Per Minute	minute	1242,00	1238,30	1240,00	1234,60	1258,40
Nozzle	mm	1.7	1.7	1.7	1.7	1.7

Lampiran 8. Data Analisis Umur Alat 65,63 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	<i>Oil losses</i> (%)	RPM
55,30	93,02	0,84	1242
55,30	93,87	0,63	1238
55,30	93,35	0,99	1240
55,30	95,18	0,82	1234
55,30	92,44	0,82	1258
Rata-rata	93,572	0,82	

Lampiran 9. Data Analisis Umur Alat 92,44 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	<i>Oil losses</i> (%)	RPM
66,77	87,67	1,71	1296
66,77	87,57	1,76	1269
66,77	87,58	1,75	1252
66,77	87,39	1,78	1248
66,77	87,43	1,8	1247
Rata-rata	87,528	1,76	

Lampiran 10. Data Analisis Umur Alat 14,6 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	<i>Oil losses</i> (%)	RPM
10,61	94,94	0,62	1292
10,61	94,6	0,64	1190
10,61	94,42	0,65	1184
10,61	94,03	0,64	1182
10,61	94,02	0,68	1116
Rata-rata	94,402	0,646	

Lampiran 11. Data Analisis Umur Alat 81,38 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	<i>Oil losses</i> (%)	RPM
58,78	90,56	1,41	1225
58,78	90,55	1,43	1224
58,79	90,54	1,42	1224
58,79	90,51	1,4	1224
58,79	90,58	1,43	1223
Rata-rata	90,548	1,418	8,034

Lampiran 12. Data Analisis Umur Alat 75 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	<i>Oil losses</i> (%)	RPM
58,78	90,56	1,17	1167
58,78	90,55	1,50	1168
58,79	90,54	1,91	1167
58,79	90,51	1,15	1165
58,79	90,58	1,14	1262
Rata-rata	90,548	1,418	

Lampiran 13. Data Analisis Umur Alat 83 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	<i>Oil losses</i> (%)	RPM
59,96	89,28	1,57	1146
59,96	89,26	1,52	1140
59,97	89,84	1,54	1144
59,97	89,72	1,55	1147
59,97	89,13	1,56	1130
Rata-rata	89,446	1,548	

Lampiran 14. Data Analisis Umur Alat 74,76 Bulan

LIFE TIME (Bulan)	Kadar Air (%)	Oil losses (%)	RPM
54,04	92,1	0,9	1287
54,04	92,02	0,92	1309
54,04	92,04	0,92	1295
54,04	92,06	0,92	1306
54,04	92,07	0,93	1295
Rata-rata	92,058	0,918	

Lampiran 15. Alat *Sludge centrifuge*



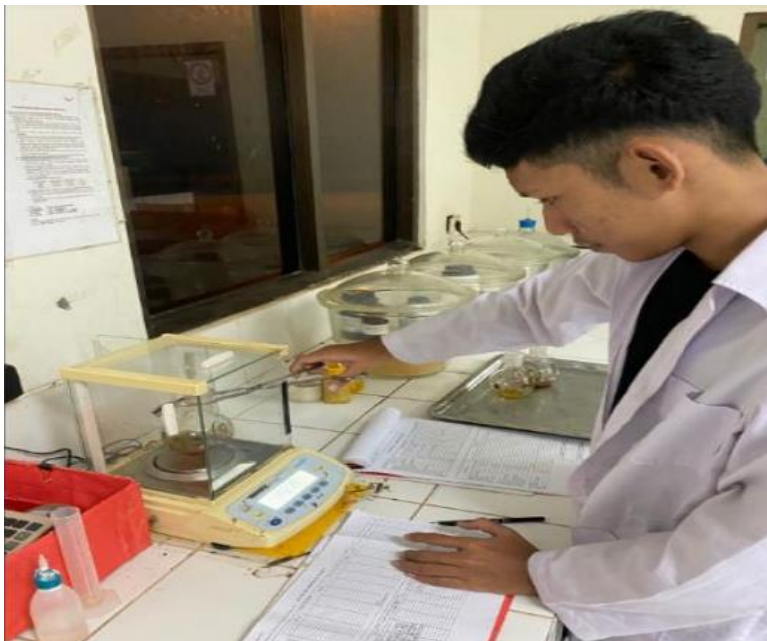
Lampiran 16. Pengambilan Sample Heavy Phase



Lampiran 17. Pengovenan Sample



Lampiran 18. Penimbangan Sample



Lampiran 19. Melakukan Extraction Sample



Lampiran 20. Spesifikasi *Sludge Centrifuge*

r	r_0	Δ	Hz	G	min	A	COS ϕ
380	△	50	22	1464	41	0.85	
420	△	50	22	1471	38.2	0.86	
690	Y	50	22	1463	22.8	0.87	
440	△	60	22	1769	35.3	0.88	

Technical specifications for a sludge centrifuge, including a table of performance data and various parameters.

Model: M180L-4
NO: D22117
E: 34-1
IP: 55
IM
Ins. cl: F
40 °C
100