

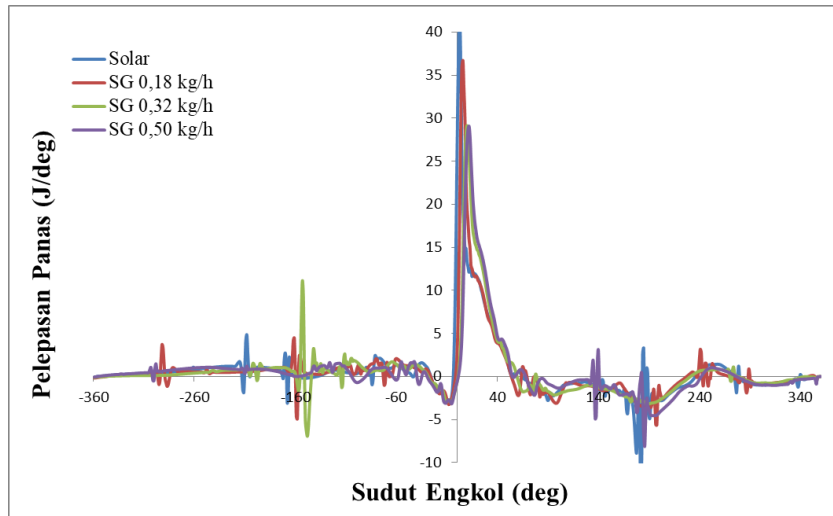
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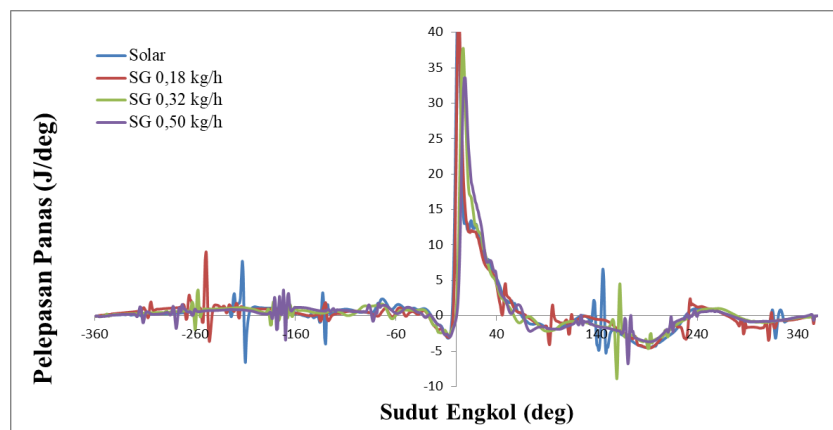
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LAMPIRAN

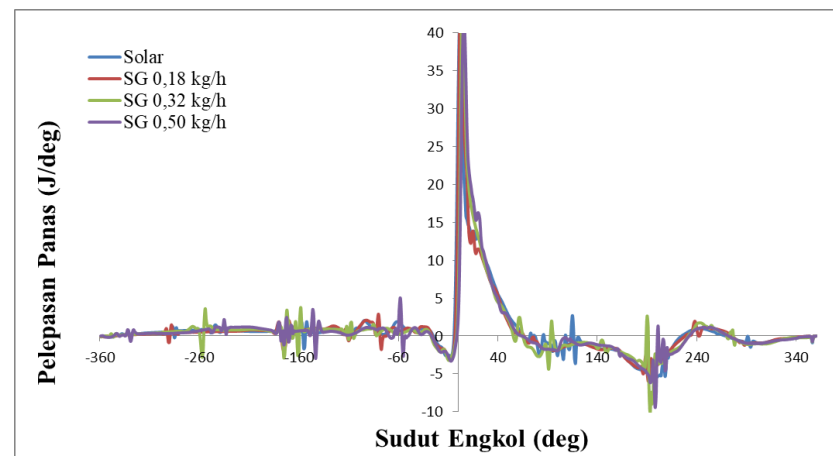
Lampiran 1 Pelepasan Panas



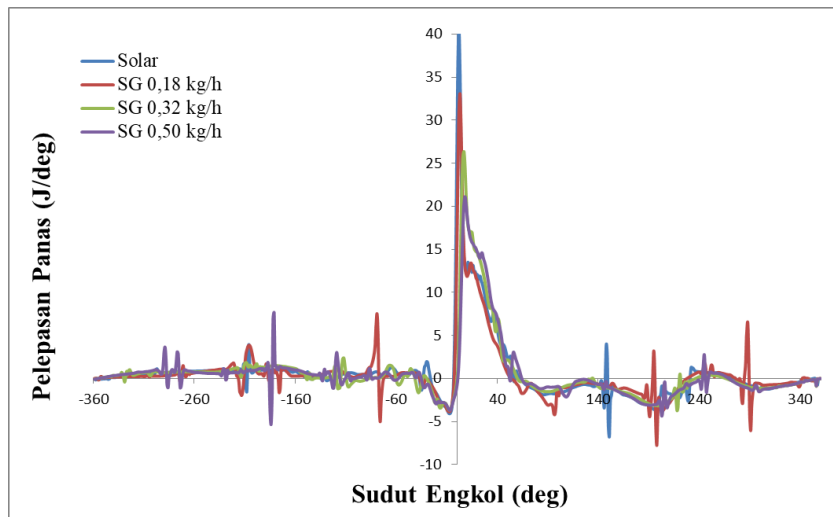
Pelepasan panas kompresi 14, beban 6 kg



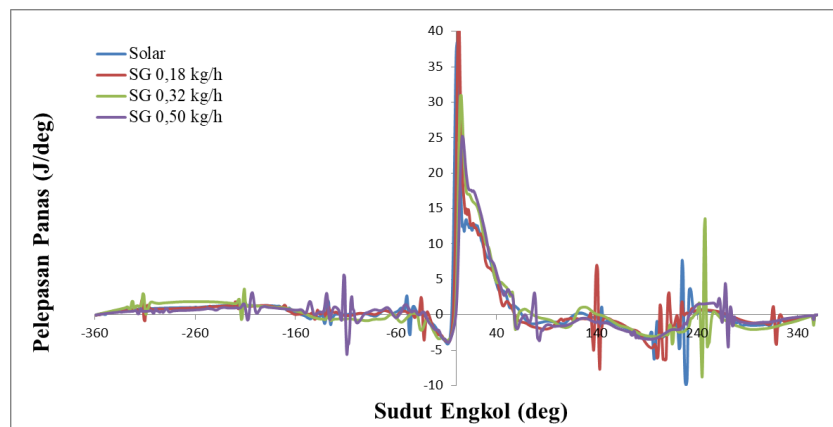
Pelepasan panas kompresi 14, beban 8 kg



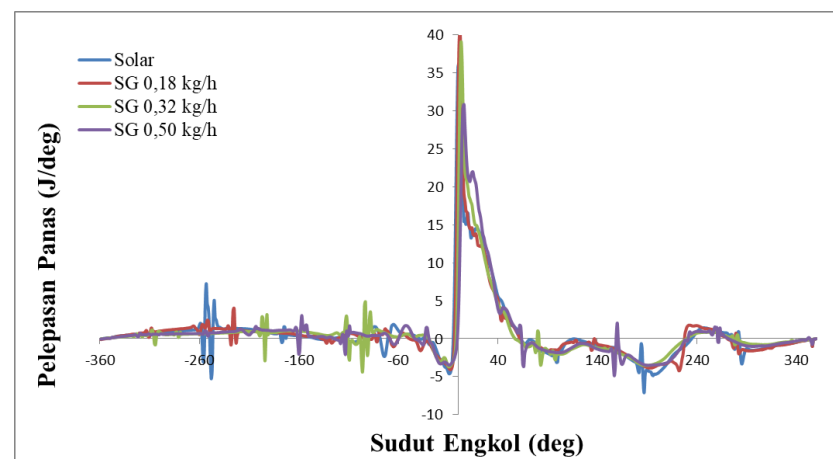
Pelepasan panas kompresi 14, beban 10 kg



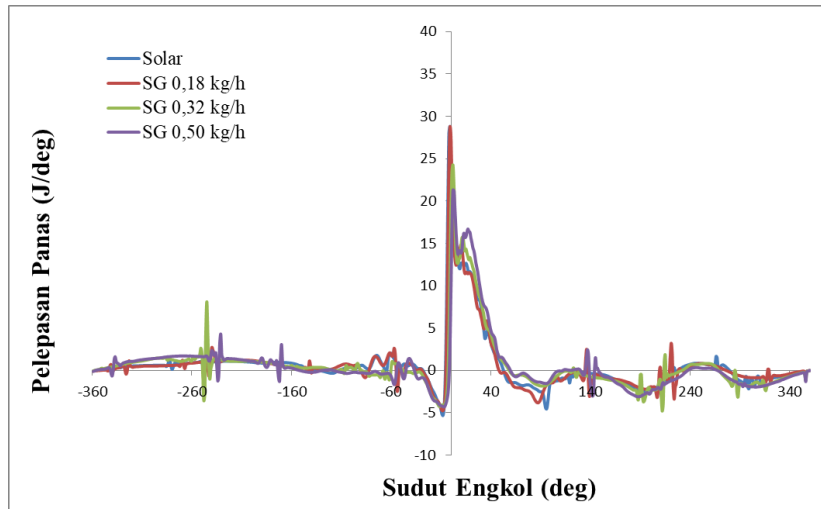
Pelepasan panas kompresi 16, beban 6 kg



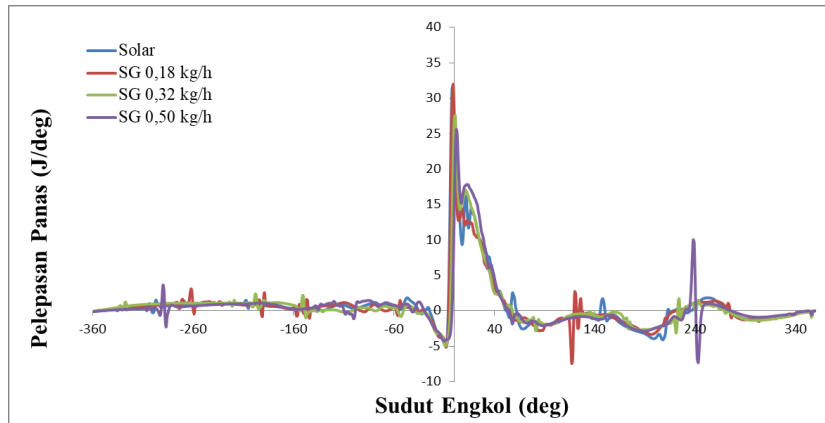
Pelepasan panas kompresi 16, beban 8 kg



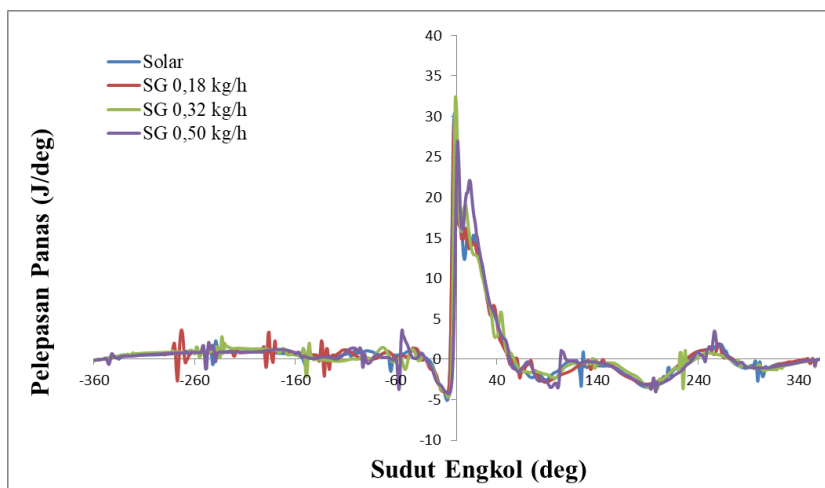
Pelepasan panas kompresi 16, beban 10 kg



Pelepasan panas kompresi 18, beban 6 kg

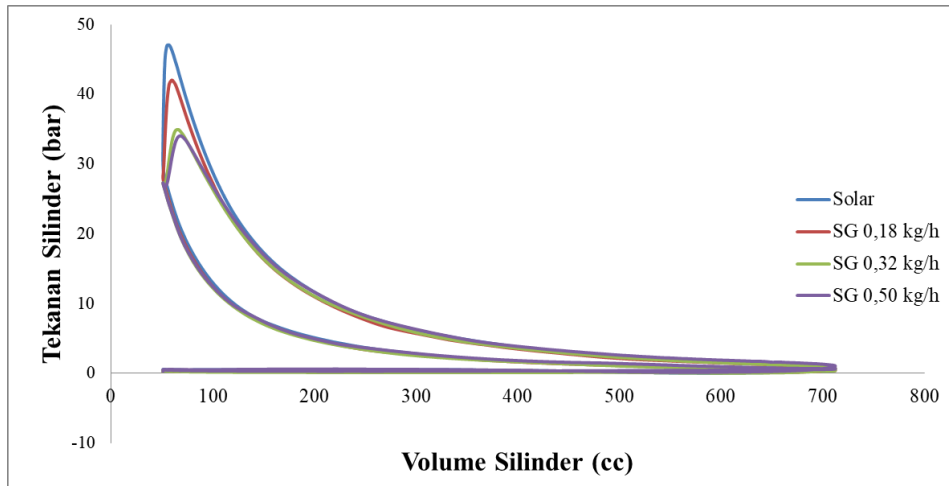


Pelepasan panas kompresi 18, beban 8 kg

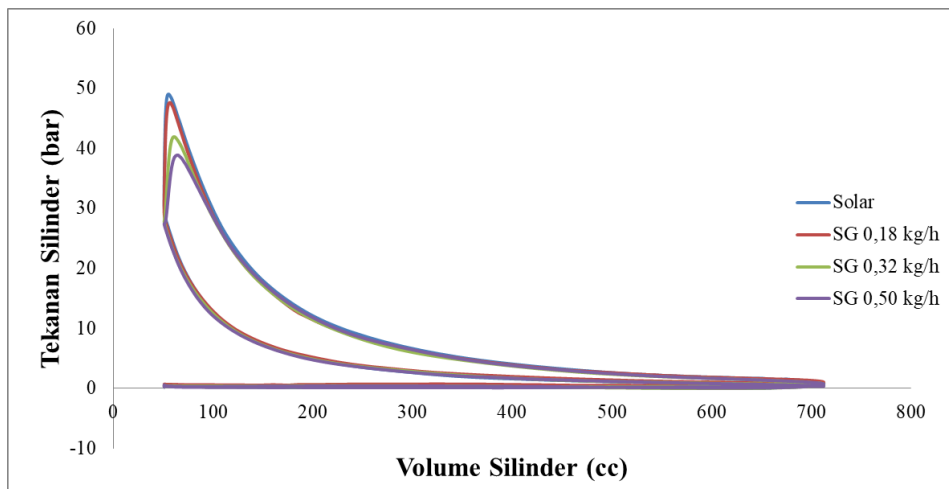


Pelepasan panas kompresi 18, beban 10 kg

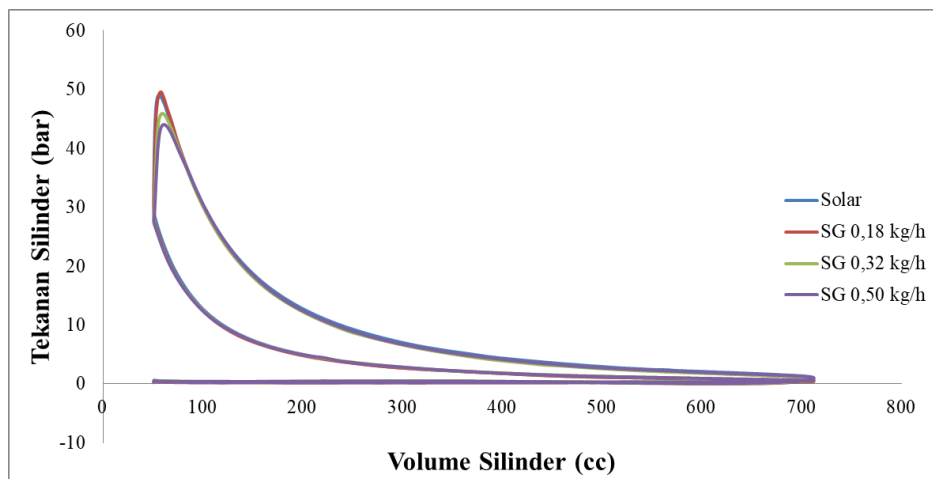
Lampiran 2 Tekanan Silinder



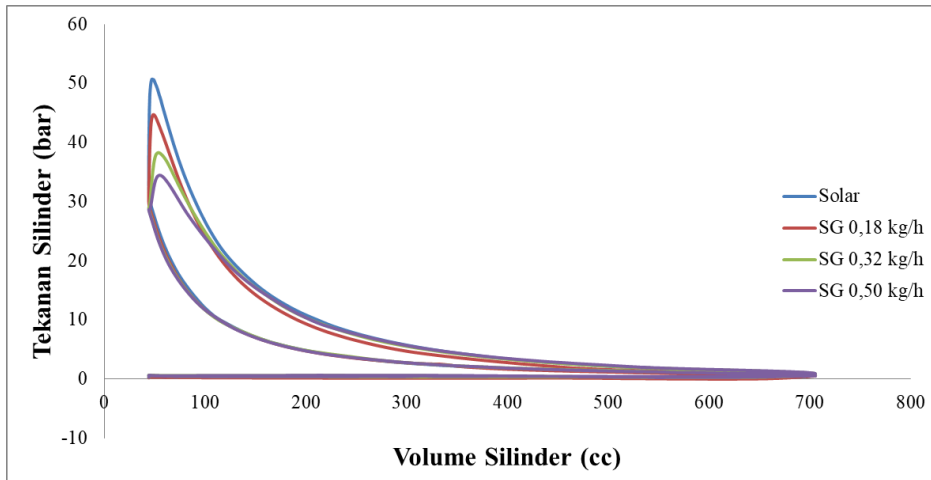
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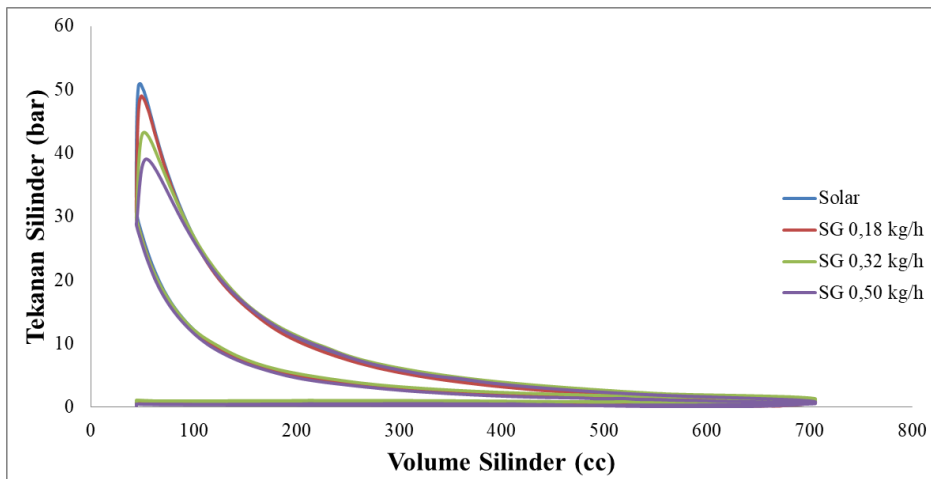
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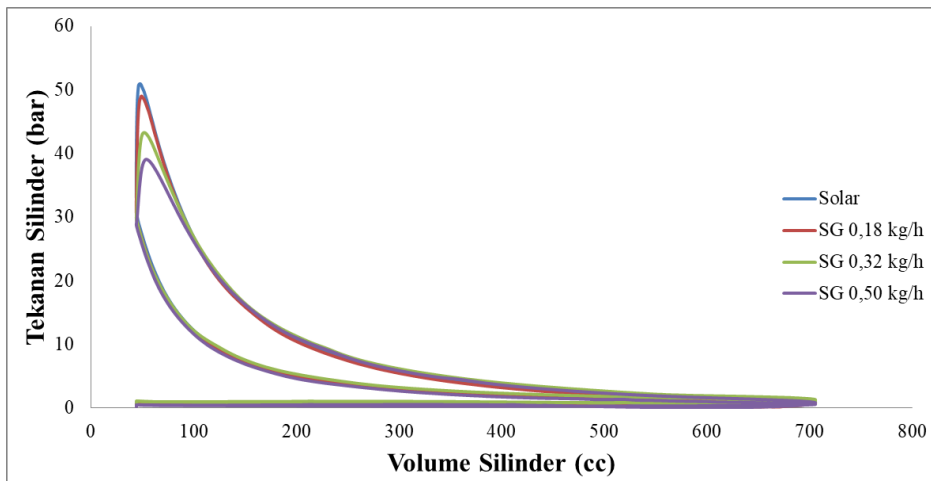
Tekanan Silinder kompresi 14, beban 10 kg



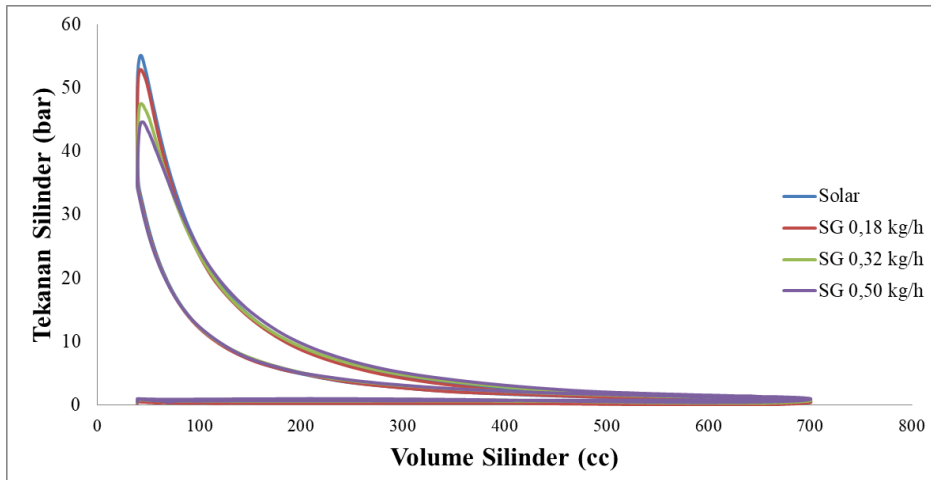
Tekanan Silinder kompresi 16, beban 6 kg



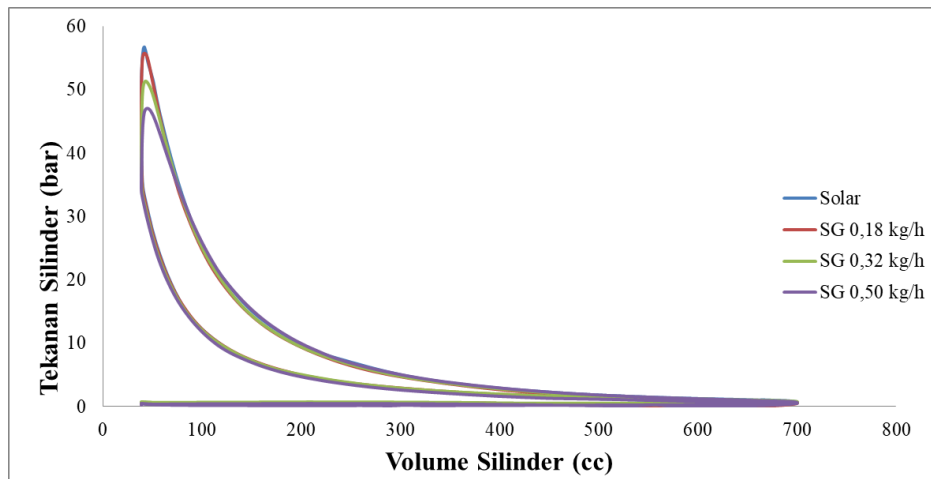
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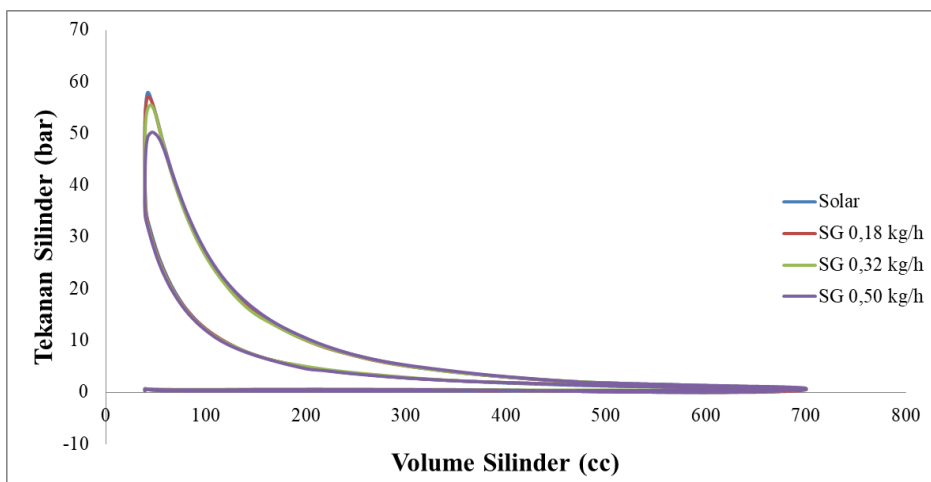
Tekanan Silinder kompresi 16, beban 10 kg



Tekanan Silinder kompresi 18, beban 6 kg



Tekanan Silinder kompresi 18, beban 8 kg



Tekanan Silinder kompresi 18, beban 10 kg

Lampiran 3 Fraksi Massa Pembakaran

Kompresi 14						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
6	Solar	-5,00	38,00	-0,09	4,2	15,08
	SG 0,18 kg/h	-5,00	37,00	2,95	7,32	16,44
	SG 0,32 kg/h	-3,00	39,00	6,55	12,31	23,62
	SG 0,50 kg/h	-3,00	40,00	7,55	13,51	24,42

Fraksi Massa Pembakaran kompresi 14, beban 6 kg

Kompresi 14						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
8	Solar	-6,00	36,00	-0,42	4,09	18,19
	SG 0,18 kg/h	-5,00	31,00	0,21	4,35	14,83
	SG 0,32 kg/h	-5,00	35,00	3,66	8,34	17,39
	SG 0,50 kg/h	-4,00	40,00	5,31	10,97	21,98

Fraksi Massa Pembakaran kompresi 14, beban 8 kg

Kompresi 14						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
10	Solar	-10,00	51,00	-0,33	4,36	16,23
	SG 0,18 kg/h	-5,00	52,00	0,47	4,29	11,07
	SG 0,32 kg/h	-7,00	37,00	2,41	6,57	15,57
	SG 0,50 kg/h	-4,00	42,00	3,19	7,75	16,52

Fraksi Massa Pembakaran kompresi 14, beban 10 kg

Kompresi 16						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
6	Solar	-6,00	30,00	-1,13	2,95	14,71
	SG 0,18 kg/h	-5,00	35,00	0,46	4,56	14,21
	SG 0,32 kg/h	-4,00	32,00	4,11	9,41	20,18
	SG 0,50 kg/h	-4,00	47,00	5,10	11,00	21,12

Fraksi Massa Pembakaran kompresi 16, beban 6 kg

Kompresi 16						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
8	Solar	-6,00	40,00	-1,55	2,58	13,02
	SG 0,18 kg/h	-5,00	30,00	0,24	4,15	13,89
	SG 0,32 kg/h	-6,00	38,00	2,38	7,04	16,57
	SG 0,50 kg/h	-5,00	45,00	3,66	9,62	19,61

Fraksi Massa Pembakaran kompresi 16, beban 8 kg

Kompresi 16						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
10	Solar	-6,00	39,00	-1,53	3,48	16,05
	SG 0,18 kg/h	-5,00	33,00	-0,46	3,78	13,80
	SG 0,32 kg/h	-6,00	37,00	1,17	5,35	13,29
	SG 0,50 kg/h	-5,00	39,00	3,11	8,54	17,25

Fraksi Massa Pembakaran kompresi 16, beban 10 kg

Kompresi 18						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
6	Solar	-7,00	33,00	-2,89	2	12,1
	SG 0,18 kg/h	-6,00	31,00	-2,51	2,02	11,06
	SG 0,32 kg/h	-5,00	34,00	-0,24	4,61	14,13
	SG 0,50 kg/h	-4,00	32,00	1,17	7,61	19,02

Fraksi Massa Pembakaran kompresi 18, beban 6 kg

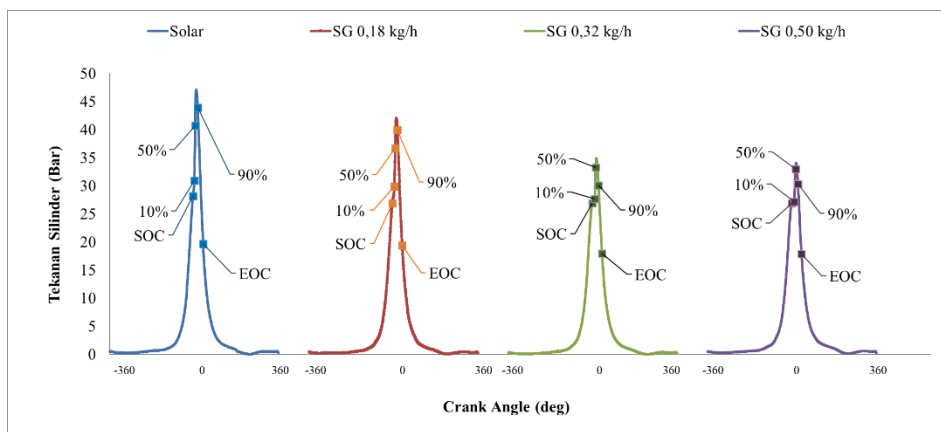
Kompresi 18						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
8	Solar	-7,00	26,00	-3,29	2,53	15,65
	SG 0,18 kg/h	-7,00	30,00	-2,9	1,62	12,1
	SG 0,32 kg/h	-6,00	30,00	-1,21	4,12	14,09
	SG 0,50 kg/h	-7,00	33,00	1	7,6	18,63

Fraksi Massa Pembakaran kompresi 18, beban 8 kg

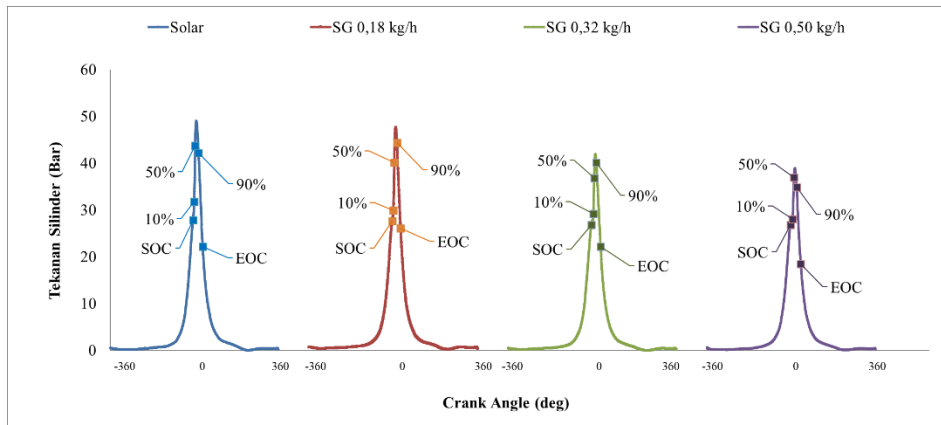
Kompresi 18						
Beban	Bahan Bakar	SOC	EOC	MFB 10%	MFB 50%	MFB 90%
10	Solar	-8,00	30,00	-3,42	2,8	15,21
	SG 0,18 kg/h	-8,00	32,00	-3,31	2,59	13,95
	SG 0,32 kg/h	-6,00	36,00	-2	2,71	10,79
	SG 0,50 kg/h	-5,00	26,00	-0,14	7,08	16,81

Fraksi Massa Pembakaran kompresi 18, beban 10 kg

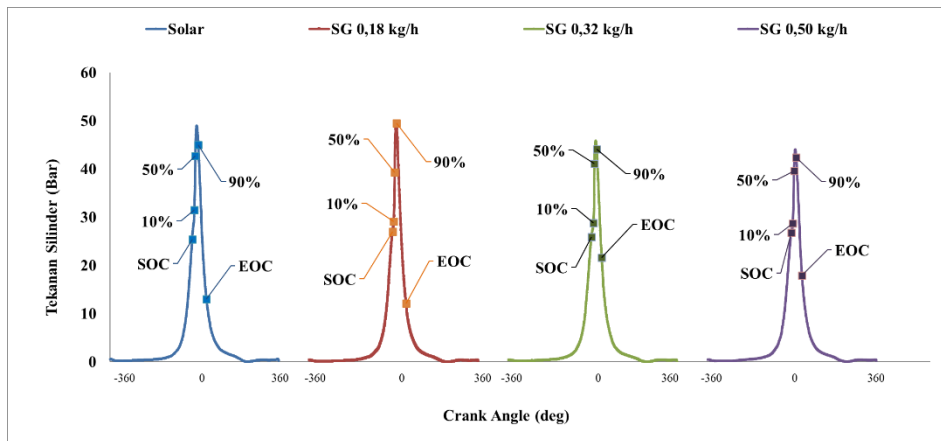
Lampiran 4 Sudut Engkol



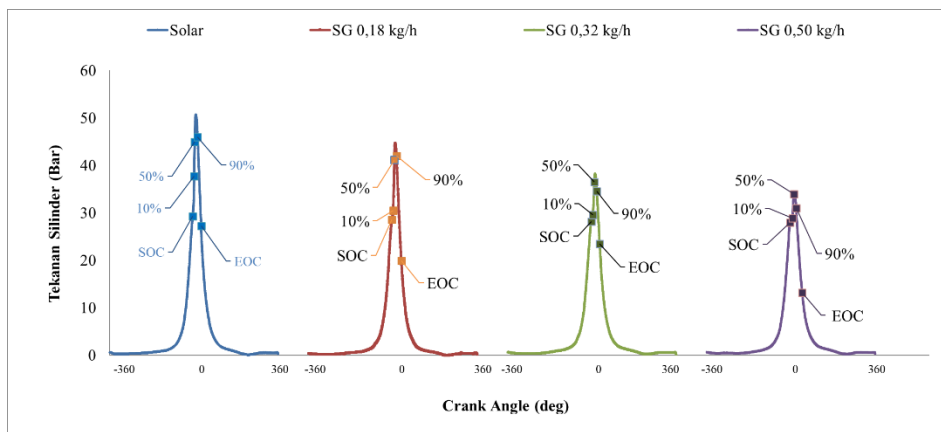
Sudut Engkel kompresi 14 beban 6 kg



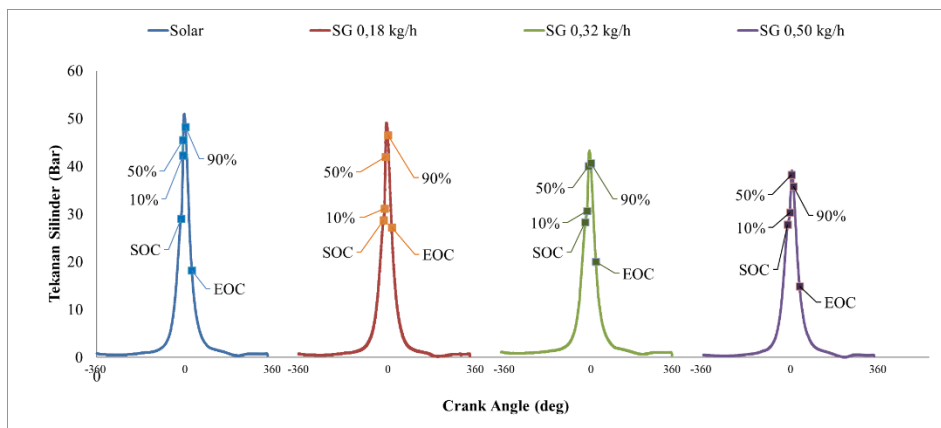
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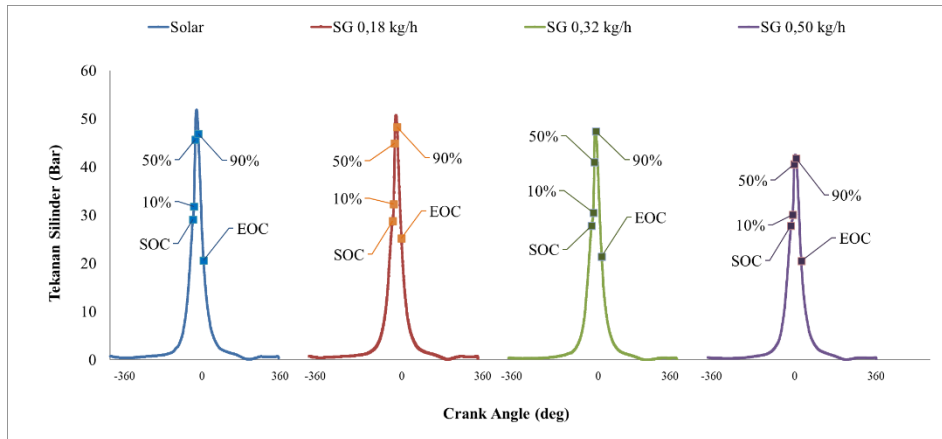
Sudut Engkel kompresi 14 beban 10 kg



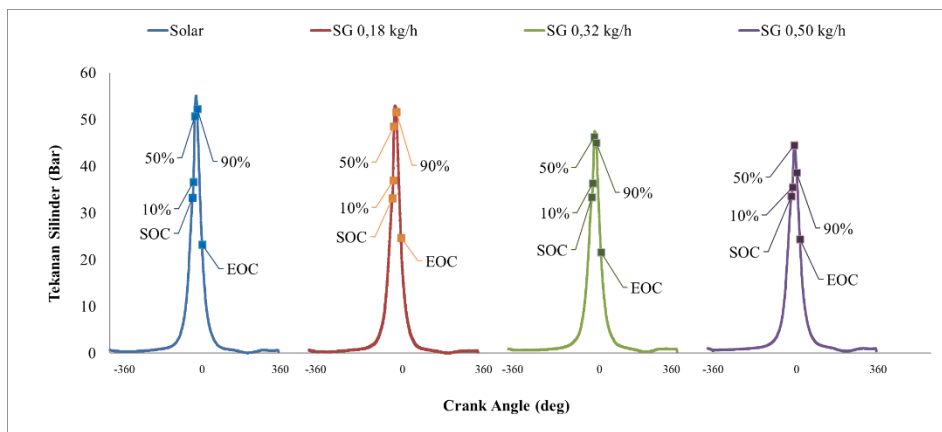
Sudut Engkel kompresi 16 beban 6 kg



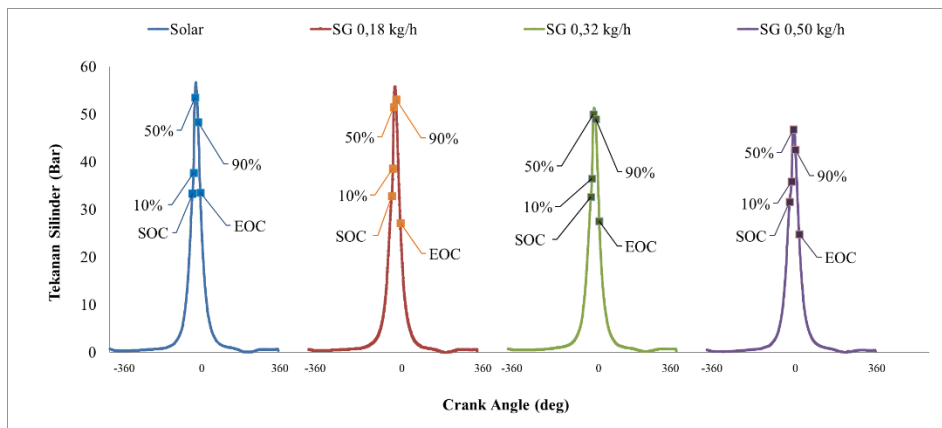
Sudut Engkel kompresi 16 beban 8 kg



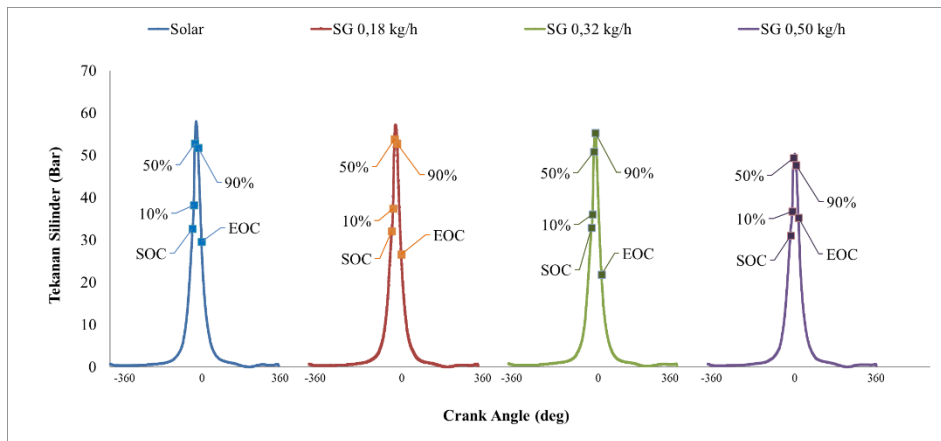
Sudut Engkel kompresi 16 beban 10 kg



Sudut Engkel kompresi 18 beban 6 kg



Sudut Engkel kompresi 18 beban 8 kg



Sudut Engkel kompresi 18 beban 10 kg

Lampiran 5 Data Perhitungan

Solar Tanpa Gas																								
KOMPRESI	Beban (kg)	Putaran (rpm)	Torsi (Nm)	BP (Kw)	FC (kg/h)	SFC (kg/kW.h)	IMEP	Ma (kg/h)	Mth (kg/h)	AFR	η_{vo} (%)	η_{th} (%)	fuel	10^{-3}	pf	ho	pud	LVHbb	vs	$vs \times 10^{-3}$	Qtot	Opa(%)	SEopa (%/kWh)	Elopa (%/FC)
14	6	1494	11,030	1,726	0,907	0,526	4,560	26,110	34,662	28,781	75,327	20,297	18	0,018	0,840	64,570	1,170	33739	0,661	0,00066	8,502	7,1	4,114	7,826
	8	1486	14,710	2,289	1,008	0,440	5,050	25,748	34,477	25,543	74,681	24,231	20	0,020	0,840	62,790	1,170	33739	0,661	0,00066	9,447	8,2	3,582	8,135
	10	1474	18,280	2,822	1,109	0,393	5,470	25,391	34,198	22,899	74,245	27,153	22	0,022	0,840	61,060	1,170	33739	0,661	0,00066	10,392	10,5	3,721	9,470
16	6	1501	11,060	1,738	0,857	0,493	4,370	26,295	34,825	30,690	75,508	21,650	17	0,017	0,840	65,490	1,170	33739	0,661	0,00066	8,030	5,7	3,279	6,653
	8	1488	14,680	2,287	0,958	0,419	4,360	25,932	34,523	27,080	75,113	25,488	19	0,019	0,840	63,690	1,170	33739	0,661	0,00066	8,975	6,5	2,842	6,788
	10	1478	18,300	2,832	1,058	0,374	5,120	25,709	34,291	24,290	74,972	28,554	21	0,021	0,840	62,600	1,170	33739	0,661	0,00066	9,919	9,4	3,319	8,881
18	6	1538	10,940	1,762	0,806	0,458	3,390	26,511	35,683	32,876	74,296	23,314	16	0,016	0,840	66,570	1,170	33739	0,661	0,00066	7,558	3,2	1,816	3,968
	8	1508	14,690	2,320	0,958	0,413	4,040	26,191	34,987	27,350	74,858	25,849	19	0,019	0,840	64,970	1,170	33739	0,661	0,00066	8,975	4,3	1,854	4,490
	10	1491	18,300	2,857	1,008	0,353	4,360	25,828	34,593	25,623	74,661	30,246	20	0,020	0,840	63,180	1,170	33739	0,661	0,00066	9,447	7,5	2,625	7,440

Data perhitungan solar tanpa gas

Solar dengan penambahan LPG 0,18 kg/h																								
KOMPRESI	Beban (kg)	Putaran (rpm)	Torsi (Nm)	BP (Kw)	FC (kg/h)	SFC (kg/kW.h)	IMEP	Ma (kg/h)	Mth (kg/h)	AFR	η_{vo} (%)	η_{th} (%)	fuel	10^{-3}	pf	ho	pud	LVHbb	vs	$vs \times 10^{-3}$	Qtot	Opa(%)	SEopa (%/kWh)	Elopa (%/FC)
14	6	1530	11,220	1,798	0,835	0,465	4,090	26,269	35,498	31,453	74,003	21,158	13	0,013	0,840	65,360	1,170	33739	0,661	0,00066	8,496	9,8	5,451	11,734
	8	1494	14,720	2,303	0,986	0,428	4,520	25,860	34,662	26,217	74,606	23,230	16	0,016	0,840	63,340	1,170	33739	0,661	0,00066	9,914	11,3	4,907	11,456
	10	1482	18,460	2,865	1,037	0,362	5,230	25,422	34,384	24,519	73,935	27,584	17	0,017	0,840	61,210	1,170	33739	0,661	0,00066	10,386	13,4	4,677	12,924
16	6	1536	11,210	1,803	0,835	0,463	3,350	26,470	35,637	31,692	74,276	21,222	13	0,013	0,840	66,360	1,170	33739	0,661	0,00066	8,496	5,9	3,272	7,064
	8	1522	14,710	2,345	0,886	0,378	4,140	26,191	35,312	29,574	74,170	26,141	14	0,014	0,840	64,970	1,170	33739	0,661	0,00066	8,969	8,1	3,455	9,146
	10	1498	18,280	2,868	0,986	0,344	4,620	25,783	34,755	26,138	74,183	28,926	16	0,016	0,840	62,960	1,170	33739	0,661	0,00066	9,914	10,4	3,627	10,543
18	6	1541	11,210	1,809	0,936	0,517	3,180	26,621	35,753	28,441	74,457	19,161	15	0,015	0,840	67,120	1,170	33739	0,661	0,00066	9,441	4,1	2,266	4,380
	8	1513	14,690	2,327	1,037	0,445	3,610	26,376	35,103	25,439	75,137	22,410	17	0,017	0,840	65,890	1,170	33739	0,661	0,00066	10,386	5,7	2,449	5,498
	10	1507	18,290	2,886	1,138	0,394	4,260	26,104	34,964	22,947	74,660	25,474	19	0,019	0,840	64,540	1,170	33739	0,661	0,00066	11,331	8,6	2,979	7,560

Data perhitungan solar dengan penambahan LPG 0,18 kg/h

Solar dengan penambahan LPG 0,32 kg/h																								
KOMPRESI	Beban (kg)	Putaran (rpm)	Torsi (Nm)	BP (Kw)	FC (kg/h)	SFC (kg/kWh)	IMEP	Ma (kg/h)	Mth (kg/h)	AFR	η_{vo} (%)	η_{th} (%)	fuel	10^{-3}	pf	ho	pud	LVHbb	vs	$vsx10^{-3}$	Qtot	Opa(%)	SEopa (%/kWh)	EIopa (%/FC)
14	6	1599	11,210	1,877	0,824	0,439	3,900	27,071	37,099	32,853	72,970	21,063	10	0,010	0,840	69,410	1,170	33739	0,661	0,00066	8,912	10,5	5,594	12,743
	8	1538	14,890	2,398	0,925	0,386	4,440	26,203	35,683	28,334	73,432	24,331	12	0,012	0,840	65,030	1,170	33739	0,661	0,00066	9,857	12,1	5,046	13,084
	10	1518	18,500	2,941	1,026	0,349	4,950	25,725	35,219	25,083	73,043	27,227	14	0,014	0,840	62,680	1,170	33739	0,661	0,00066	10,801	14,3	4,863	13,943
16	6	1575	11,190	1,846	0,774	0,419	3,640	26,808	36,542	34,654	73,364	21,869	9	0,009	0,840	68,070	1,170	33739	0,661	0,00066	8,440	6,3	3,414	8,144
	8	1553	14,750	2,399	0,874	0,365	4,130	26,493	36,031	30,299	73,529	25,562	11	0,011	0,840	66,480	1,170	33739	0,661	0,00066	9,384	9,7	4,044	11,093
	10	1538	18,500	2,980	0,975	0,327	4,790	26,148	35,683	26,813	73,279	28,847	13	0,013	0,840	64,760	1,170	33739	0,661	0,00066	10,329	11,4	3,826	11,690
18	6	1557	11,190	1,825	0,824	0,452	3,120	26,615	36,124	32,299	73,676	20,473	10	0,010	0,840	67,090	1,170	33739	0,661	0,00066	8,912	5,3	2,905	6,432
	8	1549	14,710	2,386	0,925	0,388	3,620	26,416	35,939	28,564	73,502	24,208	12	0,012	0,840	66,090	1,170	33739	0,661	0,00066	9,857	6,8	2,850	7,353
	10	1546	18,290	2,961	0,975	0,329	4,130	26,362	35,869	27,032	73,494	28,668	13	0,013	0,840	65,820	1,170	33739	0,661	0,00066	10,329	9,4	3,175	9,639

Data perhitungan solar dengan penambahan LPG 0,32 kg/h

Solar dengan penambahan LPG 0,50 kg/h																								
KOMPRESI	Beban (kg)	Putaran (rpm)	Torsi (Nm)	BP (Kw)	FC (kg/h)	SFC (kg/kWh)	IMEP	Ma (kg/h)	Mth (kg/h)	AFR	η_{vo} (%)	η_{th} (%)	fuel	10^{-3}	pf	ho	pud	LVHbb	vs	$vsx10^{-3}$	Qtot	Opa(%)	SEopa (%/kWh)	EIopa (%/FC)
14	6	1618	11,260	1,908	0,954	0,500	4,040	27,240	37,539	28,566	72,564	17,673	9	0,009	0,840	70,280	1,170	33739	0,661	0,00066	10,796	11,9	6,237	12,479
	8	1571	14,980	2,464	1,054	0,428	4,470	26,543	36,449	25,174	72,823	20,991	11	0,011	0,840	66,730	1,170	33739	0,661	0,00066	11,740	13,8	5,600	13,088
	10	1538	18,280	2,944	1,105	0,375	5,050	26,017	35,683	23,549	72,911	24,108	12	0,012	0,840	64,110	1,170	33739	0,661	0,00066	12,213	15,6	5,299	14,120
16	6	1602	11,220	1,882	0,853	0,453	3,570	26,893	37,168	31,535	72,355	19,108	7	0,007	0,840	68,500	1,170	33739	0,661	0,00066	9,851	7,1	3,772	8,326
	8	1570	14,860	2,443	0,903	0,370	4,230	26,535	36,426	29,379	72,848	23,666	8	0,008	0,840	66,690	1,170	33739	0,661	0,00066	10,323	10,2	4,175	11,293
	10	1561	18,290	2,990	0,954	0,319	4,930	26,259	36,217	27,537	72,506	27,695	9	0,009	0,840	65,310	1,170	33739	0,661	0,00066	10,796	13,1	4,382	13,737
18	6	1574	11,050	1,821	0,853	0,468	3,360	26,867	36,519	31,505	73,572	18,489	7	0,007	0,840	68,370	1,170	33739	0,661	0,00066	9,851	5,9	3,239	6,918
	8	1569	14,670	2,410	0,903	0,375	3,950	26,714	36,403	29,577	73,384	23,349	8	0,008	0,840	67,590	1,170	33739	0,661	0,00066	10,323	7,8	3,236	8,636
	10	1561	18,290	2,990	1,004	0,336	4,370	26,476	36,217	26,370	73,103	26,534	10	0,01	0,840	66,390	1,170	33739	0,661	0,00066	11,268	11,2	3,746	11,155

Data perhitungan solar dengan penambahan LPG 0,50 kg/h

Lampiran 6 Data Kinerja Mesin

DAYA EFEKTIF					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6 kg	1,726	1,798	1,877	1,908
	8 kg	2,289	2,303	2,398	2,464
	10 kg	2,822	2,865	2,941	2,944
16	6 kg	1,738	1,803	1,846	1,882
	8 kg	2,287	2,345	2,399	2,443
	10 kg	2,832	2,868	2,980	2,990
18	6 kg	1,762	1,809	1,825	1,821
	8 kg	2,320	2,327	2,386	2,410
	10 kg	2,857	2,886	2,961	2,990

TORSI					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6 kg	11,030	11,220	11,210	11,260
	8 kg	14,710	14,720	14,890	14,980
	10 kg	18,280	18,460	18,500	18,280
16	6 kg	11,060	11,210	11,190	11,220
	8 kg	14,680	14,710	14,550	14,000
	10 kg	18,300	18,280	18,500	18,290
18	6 kg	10,940	11,210	11,190	11,050
	8 kg	14,690	14,690	14,710	14,670
	10 kg	18,300	18,290	18,290	18,290

Konsumsi Bahan Bakar (FC)					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6	0,907	0,835	0,824	0,954
	8	1,008	0,986	0,925	1,054
	10	1,109	1,037	1,026	1,105
16	6	0,8568	0,835	0,774	0,853
	8	0,958	0,886	0,874	0,903
	10	1,058	0,986	0,975	0,954
18	6	0,806	0,936	0,824	0,853
	8	0,9576	1,037	0,925	0,903
	10	1,008	1,138	0,975	1,004

Konsumsi Bahan Bakar Spesifik (SFC)					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6	0,526	0,465	0,439	0,500
	8	0,440	0,428	0,386	0,428
	10	0,393	0,362	0,349	0,375
16	6	0,493	0,463	0,419	0,453
	8	0,419	0,378	0,365	0,370
	10	0,374	0,344	0,327	0,319
18	6	0,458	0,517	0,452	0,468
	8	0,413	0,445	0,388	0,375
	10	0,353	0,394	0,329	0,336

Laju Aliran Massa Aktual (Ma)					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6	26,110	26,269	27,071	27,240
	8	25,748	25,860	26,203	26,543
	10	25,391	25,422	25,725	26,017
16	6	26,295	26,470	26,808	26,893
	8	25,932	26,191	26,493	26,535
	10	25,709	25,783	26,148	26,259
18	6	26,511	26,621	26,615	26,867
	8	26,191	26,376	26,416	26,714
	10	25,828	26,104	26,362	26,476

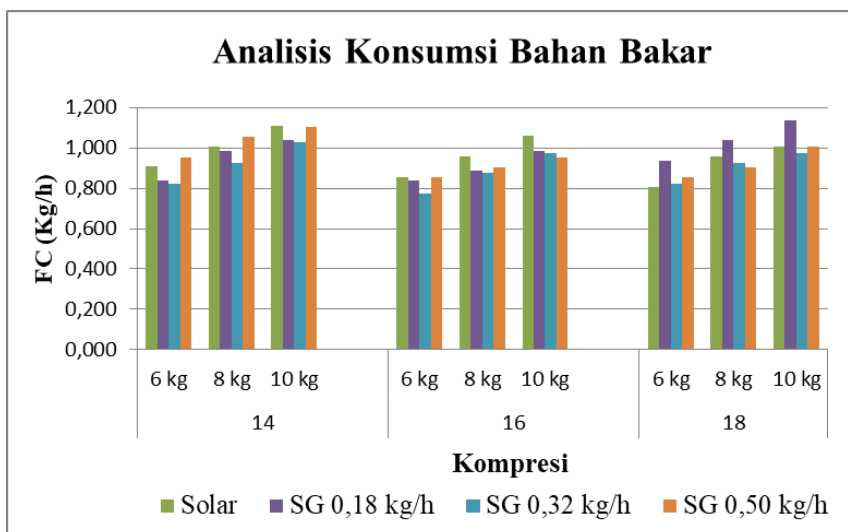
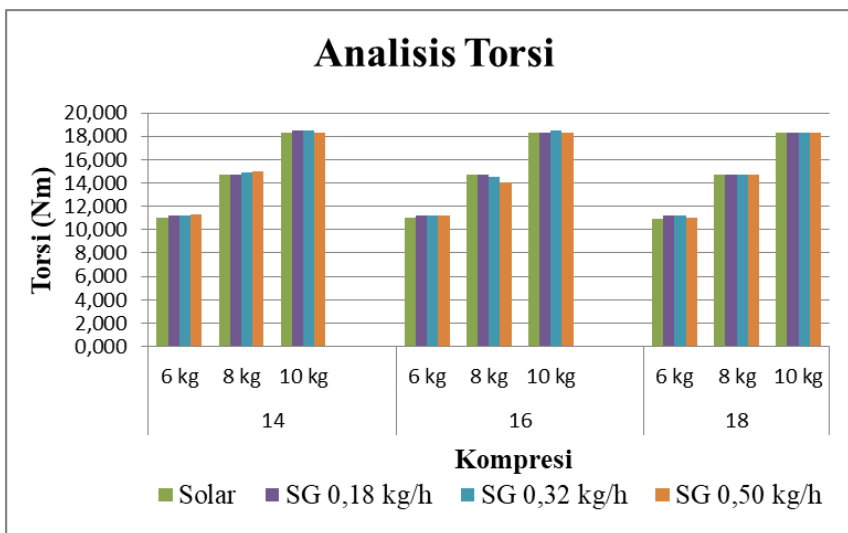
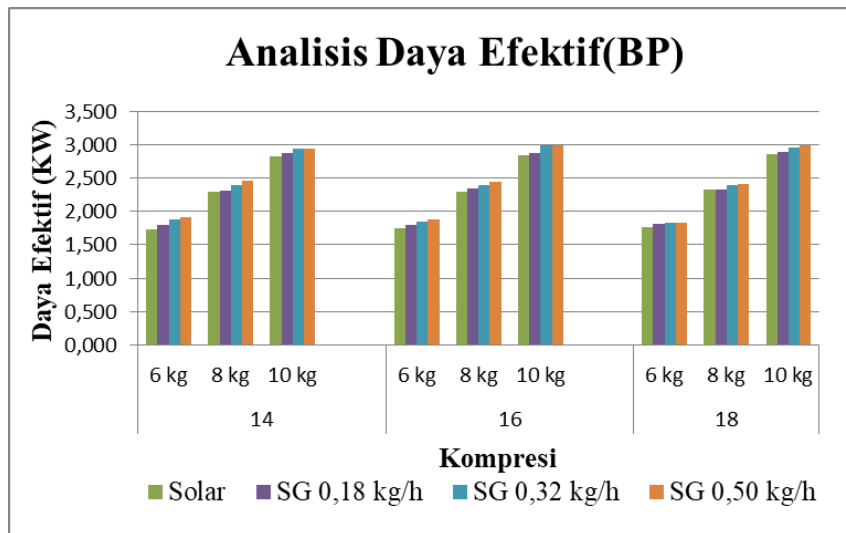
Laju Aliran Massa Theoritis					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG +0,50 kg/h
14	6	34,662	35,498	37,099	37,539
	8	34,477	34,662	35,683	36,449
	10	34,198	34,384	35,219	35,683
16	6	34,825	35,637	36,542	37,168
	8	34,523	35,312	36,031	36,426
	10	34,291	34,755	35,683	36,217
18	6	35,683	35,753	36,124	36,519
	8	34,987	35,103	35,939	36,403
	10	34,593	34,964	35,869	36,217

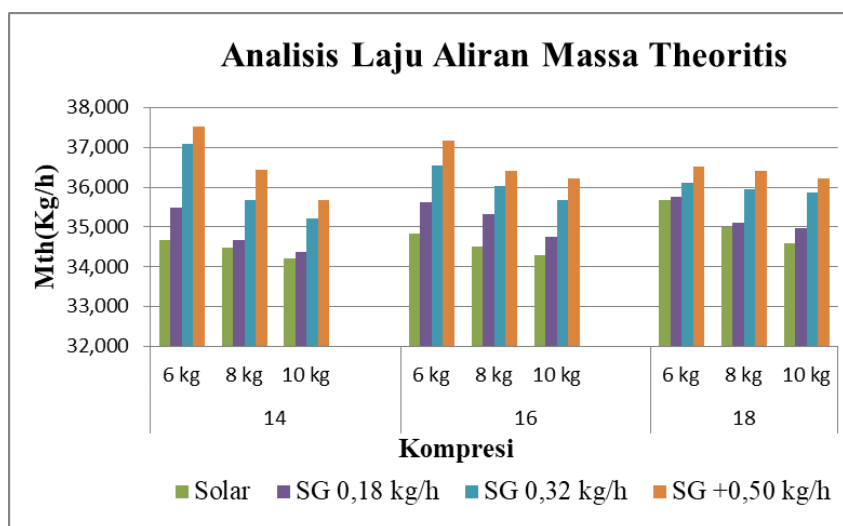
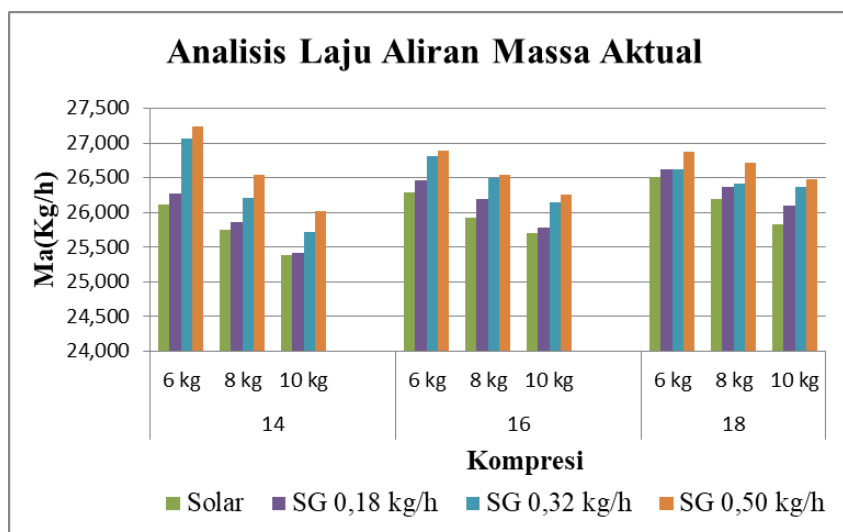
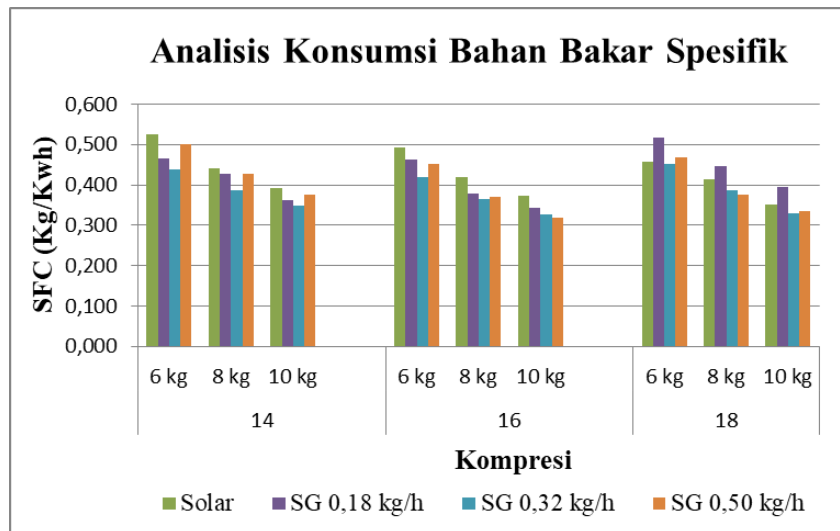
Perbandingan Udara Bahan Bakar					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6	28,781	31,453	32,853	28,566
	8	25,543	26,217	28,334	25,174
	10	22,899	24,519	25,083	23,549
16	6	30,690	31,692	34,654	31,535
	8	27,080	29,574	30,299	29,379
	10	24,290	26,138	26,813	27,537
18	6	32,876	28,441	32,299	31,505
	8	27,350	25,439	28,564	29,577
	10	25,623	22,947	27,032	26,370

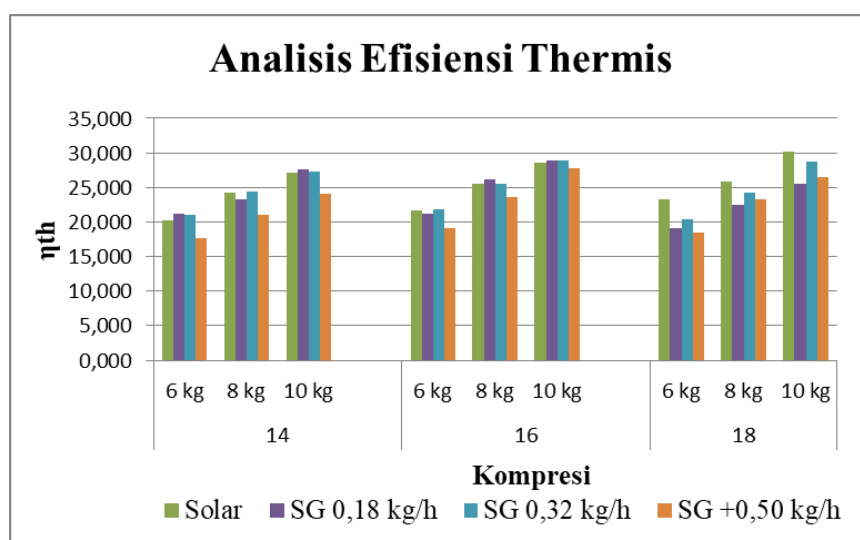
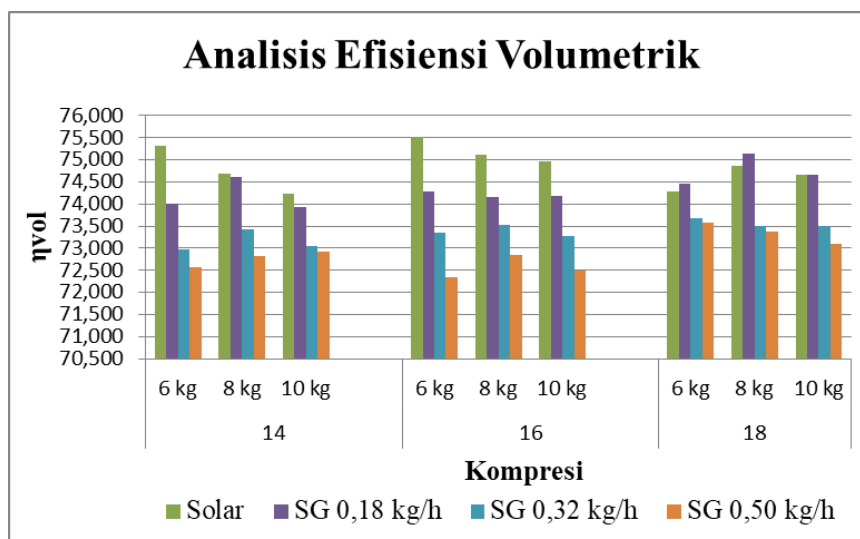
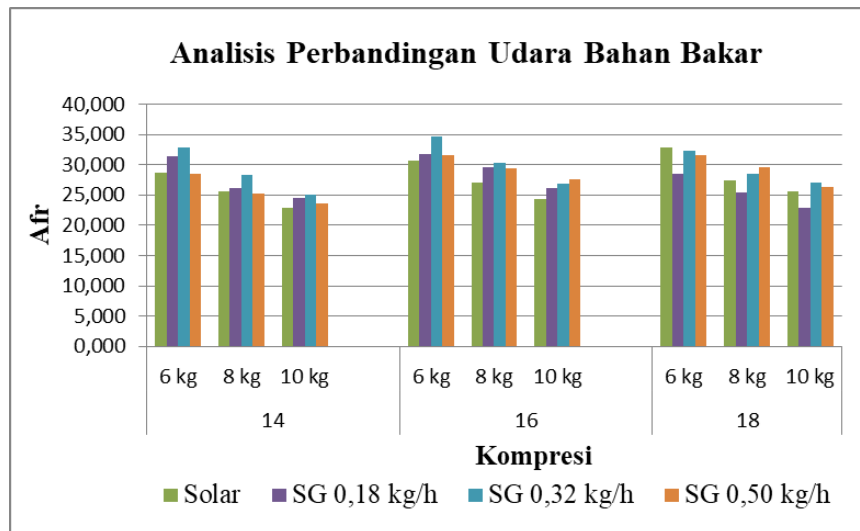
Efisiensi Volumetrik					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG 0,50 kg/h
14	6	75,327	74,003	72,970	72,564
	8	74,681	74,606	73,432	72,823
	10	74,245	73,935	73,043	72,911
16	6	75,508	74,276	73,364	72,355
	8	75,113	74,170	73,529	72,848
	10	74,972	74,183	73,279	72,506
18	6	74,296	74,457	73,676	73,572
	8	74,858	75,137	73,502	73,384
	10	74,661	74,660	73,494	73,103

Efisiensi Thermis					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG +0,50 kg/h
14	6	20,297	21,158	21,063	17,673
	8	24,231	23,230	24,331	20,991
	10	27,153	27,584	27,227	24,108
16	6	21,650	21,222	21,869	19,108
	8	25,488	26,141	25,562	23,666
	10	28,554	28,926	28,847	27,695
18	6	23,314	19,161	20,473	18,489
	8	25,849	22,410	24,208	23,349
	10	30,246	25,474	28,668	26,534

Lampiran 7 Perbandingan kinerja mesin diesel





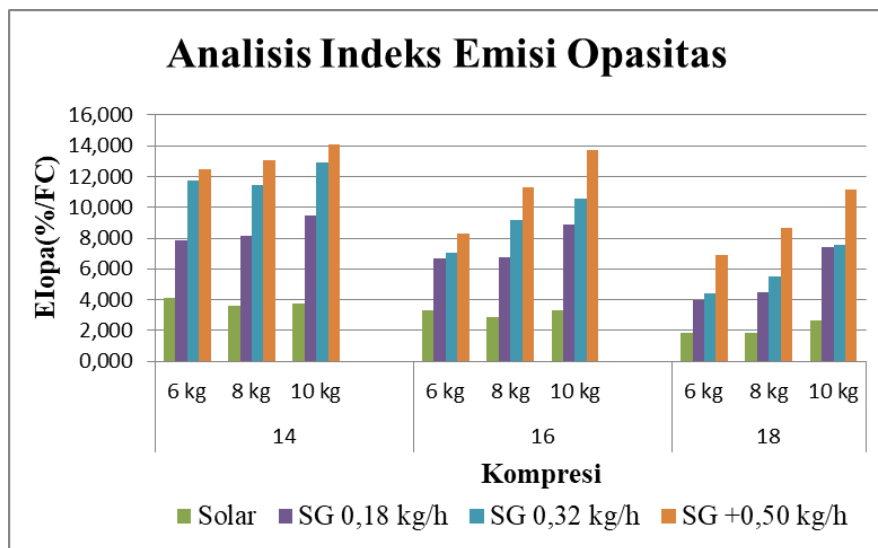
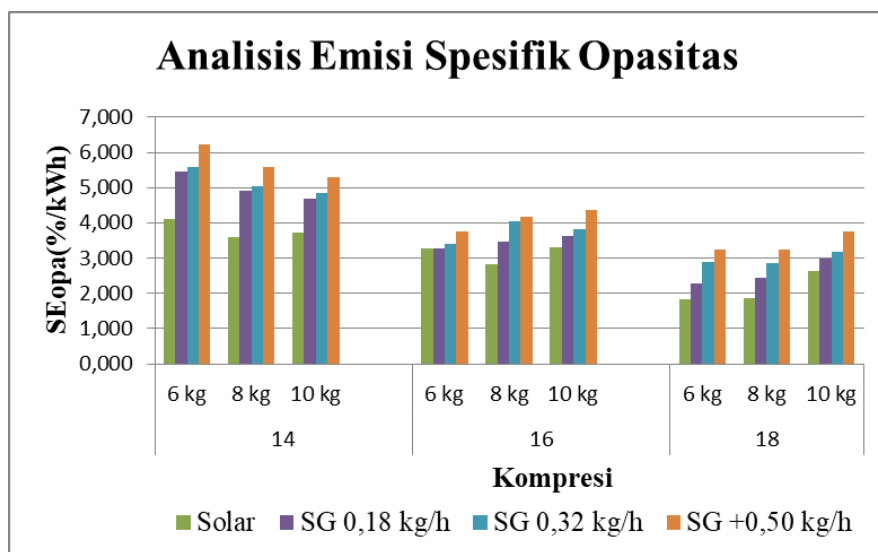
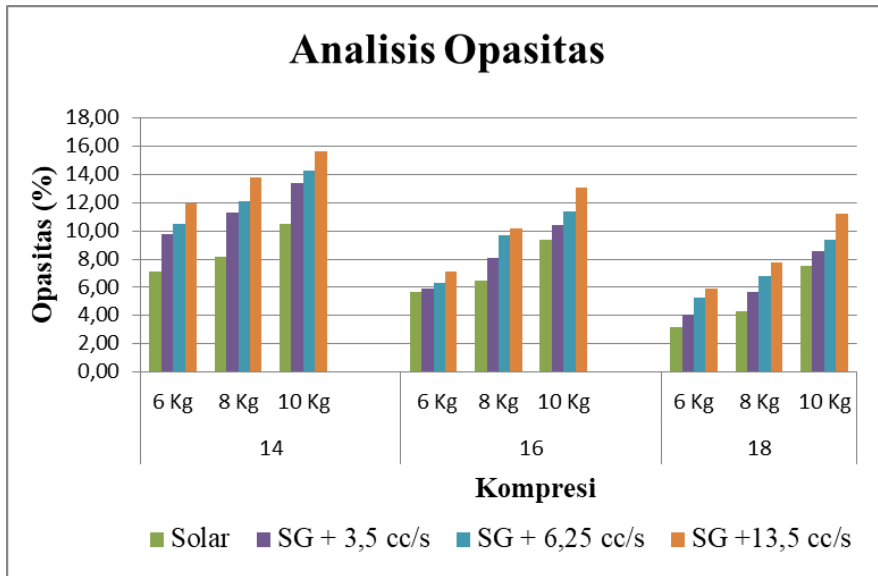


Lampiran 8 Opasitas

Opasitas					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG +0,50 kg/h
14	6 Kg	7,10	9,80	10,50	11,90
	8 Kg	8,20	11,30	12,10	13,80
	10 Kg	10,50	13,40	14,30	15,60
16	6 Kg	5,70	5,90	6,30	7,10
	8 Kg	6,50	8,10	9,70	10,20
	10 Kg	9,40	10,40	11,40	13,10
18	6 Kg	3,20	4,10	5,30	5,90
	8 Kg	4,30	5,70	6,80	7,80
	10 Kg	7,50	8,60	9,40	11,20

Emisi Spesifik Opasitas					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG +0,50 kg/h
14	6 Kg	4,114	5,451	5,594	6,237
	8 Kg	3,582	4,907	5,046	5,600
	10 Kg	3,721	4,677	4,863	5,299
16	6 Kg	3,279	3,272	3,414	3,772
	8 Kg	2,842	3,455	4,044	4,175
	10 Kg	3,319	3,627	3,826	4,382
18	6 Kg	1,816	2,266	2,905	3,239
	8 Kg	1,854	2,449	2,850	3,236
	10 Kg	2,625	2,979	3,175	3,746

Indeks Emisi Opasitas					
Kompresi	Beban	Solar	SG 0,18 kg/h	SG 0,32 kg/h	SG +0,50 kg/h
14	6 Kg	7,826	11,734	12,743	12,479
	8 Kg	8,135	11,456	13,084	13,088
	10 Kg	9,470	12,924	13,943	14,120
16	6 Kg	6,653	7,064	8,144	8,326
	8 Kg	6,788	9,146	11,093	11,293
	10 Kg	8,881	10,543	11,690	13,737
18	6 Kg	3,968	4,380	6,432	6,918
	8 Kg	4,490	5,498	7,353	8,636
	10 Kg	7,440	7,560	9,639	11,155



Lampiran 9 Dokumentasi



Menyesuaikan rasio kompresi sesuai dengan data yang dibutuhkan



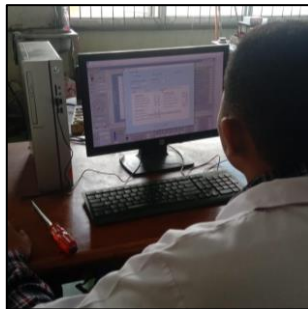
Pemasangan *mixer venturi*



Pemasangan gas LPG



Penyesuaian beban sesuai dengan data yang dibutuhkan



Pengambilan data proses pembakaran dan kinerja mesin menggunakan komputer



Pemasangan Opa 100