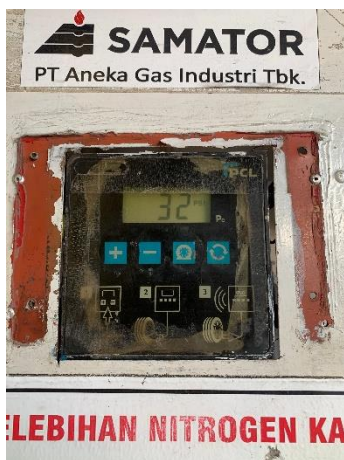


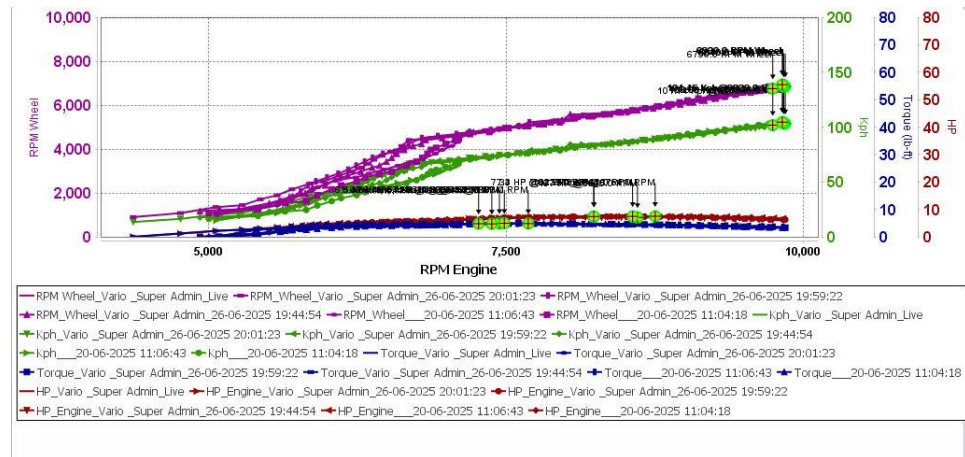
LAMPIRAN

A. Proses Pengujian



B. Data Hasil Uji Torsi Daya Mesin 125 cc

B.1 Data Hasil Uji Torsi Daya mesin 125 cc Pertamina Murni (P100)



Dyno Test Result

—	RPM Wheel_Vario_Super Admin_Live
—	RPM Wheel_Vario_Super Admin_26-06-2025 20:01:23
—	RPM Wheel_Vario_Super Admin_26-06-2025 19:59:22
—	RPM Wheel_Vario_Super Admin_26-06-2025 19:44:54
—	RPM Wheel_Vario_Super Admin_26-06-2025 11:06:43
—	RPM Wheel_Vario_Super Admin_26-06-2025 11:04:18
—	Kph_Vario_Super Admin_Live
—	Kph_Vario_Super Admin_26-06-2025 20:01:23
—	Kph_Vario_Super Admin_26-06-2025 19:59:22
—	Kph_Vario_Super Admin_26-06-2025 19:44:54
—	Kph_Vario_Super Admin_26-06-2025 11:06:43
—	Kph_Vario_Super Admin_26-06-2025 11:04:18
—	Torque_Vario_Super Admin_Live
—	Torque_Vario_Super Admin_26-06-2025 20:01:23
—	Torque_Vario_Super Admin_26-06-2025 19:59:22
—	Torque_Vario_Super Admin_26-06-2025 19:44:54
—	Torque_Vario_Super Admin_26-06-2025 11:06:43
—	Torque_Vario_Super Admin_26-06-2025 11:04:18
—	HP_Vario_Super Admin_Live
—	HP_Vario_Super Admin_26-06-2025 20:01:23
—	HP_Vario_Super Admin_26-06-2025 19:59:22
—	HP_Vario_Super Admin_26-06-2025 19:44:54
—	HP_Vario_Super Admin_26-06-2025 11:06:43
—	HP_Vario_Super Admin_26-06-2025 11:04:18

Date & Time	Engine	Owner	Max RPM Wheel	Max Kph	Max RPM Engine	Max Torque	Max HP	Max AFR
26-06-2025 20:01:23	Vario	Super Admin	6750	101.74 @9743 RPM	9743	6.64 Nm4.88 lb-ft@744 4 RPM	7.33 HP@82 39 RPM	10@82 39 RPM
26-06-2025 19:59:22	Vario	Super Admin	6840	103.09 @9848 RPM	9848	6.69 Nm4.92 lb-ft@760 6 RPM	7.4 HP@83 82 RPM	10@83 82 RPM
26-06-2025 19:44:54	Vario	Super Admin	6840	103.09 @9836 RPM	9836	6.42 Nm4.72 lb-ft@752 4 RPM	7.07 HP@86 05 RPM	10@86 05 RPM
20-06-2025 11:06:43	Vario	Super Admin	6930	104.45 @9829 RPM	9829	6.5 Nm4.78 lb-ft@759 6 RPM	7.49 HP@89 60 RPM	10@89 60 RPM

20-06-2025 11:04:18	Vario	Super Admin	6930	104.45 @9823 RPM	9823	6.57 Nm4.83 lb-ft@781 8 RPM	7.44 HP@8564 RPM	10@8564 RPM
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26-06-2025 20:01:23-Vario -Super Admin-Max Torque :6.64 Nm4.88 lb-ft@7444 RPM-Max HP: 7.33
HP@8239 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
900.00	13.56	4364.00	0.02	0.02	10.00
1080.00	16.28	4761.00	1.25	1.13	10.00
1350.00	20.35	5058.00	2.20	2.12	10.00
1440.00	21.70	5282.00	2.58	2.59	10.00
1710.00	25.77	5433.00	2.95	3.05	10.00
1890.00	28.49	5574.00	3.21	3.41	10.00
2160.00	32.56	5699.00	3.46	3.75	10.00
2430.00	36.62	5851.00	3.68	4.10	10.00
2520.00	37.98	5965.00	3.82	4.34	10.00
2790.00	42.05	6096.00	3.95	4.59	10.00
2970.00	44.76	6203.00	4.06	4.80	10.00
3150.00	47.48	6285.00	4.15	4.97	10.00
3330.00	50.19	6339.00	4.23	5.10	10.00
3510.00	52.90	6388.00	4.29	5.22	10.00
3690.00	55.62	6457.00	4.34	5.34	10.00
3870.00	58.33	6530.00	4.39	5.46	10.00
3960.00	59.69	6605.00	4.42	5.56	10.00
4140.00	62.40	6622.00	4.45	5.61	10.00
4410.00	66.47	6683.00	4.46	5.68	10.00
4500.00	67.82	6872.00	4.47	5.85	10.00
4590.00	69.18	7025.00	4.71	6.30	10.00
4770.00	71.89	7189.00	4.82	6.60	10.00
4860.00	73.25	7326.00	4.84	6.75	10.00
4950.00	74.61	7444.00	4.88	6.92	10.00
5040.00	75.96	7612.00	4.87	7.06	10.00
5130.00	77.32	7757.00	4.85	7.16	10.00
5310.00	80.03	7917.00	4.80	7.24	10.00
5400.00	81.39	8099.00	4.73	7.29	10.00
5490.00	82.75	8239.00	4.67	7.33	10.00
5580.00	84.10	8375.00	4.59	7.32	10.00
5670.00	85.46	8527.00	4.50	7.31	10.00
5850.00	88.17	8645.00	4.41	7.26	10.00
5940.00	89.53	8795.00	4.32	7.23	10.00
6030.00	90.88	8920.00	4.22	7.17	10.00
6120.00	92.24	9044.00	4.12	7.09	10.00
6210.00	93.60	9154.00	4.01	6.99	10.00
6300.00	94.95	9253.00	3.91	6.88	10.00
6390.00	96.31	9345.00	3.80	6.76	10.00
6480.00	97.67	9433.00	3.70	6.65	10.00
6570.00	99.02	9596.00	3.61	6.60	10.00



6660.00	100.38	9680.00	3.51	6.48	10.00
6750.00	101.74	9743.00	3.41	6.32	10.00

26-06-2025 19:59:22-Vario -Super Admin-Max Torque :6.69 Nm4.92 lb-ft@7606 RPM-Max HP: 7.4 HP@8382 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1170.00	17.63	5089.00	0.01	0.01	10.00
1260.00	18.99	5393.00	0.63	0.64	10.00
1620.00	24.42	5600.00	1.79	1.90	10.00
1800.00	27.13	5702.00	2.42	2.63	10.00
2070.00	31.20	5773.00	2.92	3.21	10.00
2340.00	35.27	5833.00	3.32	3.69	10.00
2520.00	37.98	5900.00	3.60	4.05	10.00
2700.00	40.69	5994.00	3.81	4.34	10.00
2880.00	43.41	6088.00	3.96	4.59	10.00
3060.00	46.12	6170.00	4.08	4.80	10.00
3240.00	48.83	6239.00	4.18	4.97	10.00
3420.00	51.55	6310.00	4.26	5.12	10.00
3600.00	54.26	6377.00	4.33	5.25	10.00
3780.00	56.97	6464.00	4.38	5.39	10.00
3870.00	58.33	6565.00	4.42	5.52	10.00
4050.00	61.04	6647.00	4.45	5.63	10.00
4230.00	63.75	6680.00	4.48	5.70	10.00
4500.00	67.82	6791.00	4.49	5.81	10.00
4590.00	69.18	6925.00	4.50	5.94	10.00
4680.00	70.54	7083.00	4.51	6.08	10.00
4770.00	71.89	7192.00	4.74	6.49	10.00
4860.00	73.25	7369.00	4.91	6.89	10.00
4950.00	74.61	7485.00	4.92	7.02	10.00
5040.00	75.96	7606.00	4.92	7.12	10.00
5220.00	78.68	7696.00	4.87	7.14	10.00
5400.00	81.39	8060.00	4.80	7.36	10.00
5490.00	82.75	8237.00	4.72	7.40	10.00
5580.00	84.10	8382.00	4.63	7.40	10.00
5670.00	85.46	8520.00	4.55	7.38	10.00
5850.00	88.17	8663.00	4.46	7.36	10.00
5940.00	89.53	8795.00	4.37	7.32	10.00
6030.00	90.88	8902.00	4.27	7.24	10.00
6120.00	92.24	9030.00	4.17	7.17	10.00
6210.00	93.60	9135.00	4.06	7.07	10.00
6300.00	94.95	9242.00	3.96	6.98	10.00
6390.00	96.31	9334.00	3.86	6.86	10.00
6480.00	97.67	9419.00	3.75	6.72	10.00
6570.00	99.02	9502.00	3.65	6.59	10.00
6660.00	100.38	9649.00	3.54	6.51	10.00
6750.00	101.74	9721.00	3.45	6.38	10.00
6840.00	103.09	9848.00	3.34	6.27	10.00



26-06-2025 19:44:54-Vario -Super Admin-Max Torque :6.42 Nm4.72 lb-ft@7524 RPM-Max HP: 7.07
HP@8605 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1170.00	17.63	4925.00	0.04	0.04	10.00
1260.00	18.99	5252.00	0.64	0.64	10.00
1530.00	23.06	5508.00	1.53	1.60	10.00
1800.00	27.13	5676.00	2.23	2.41	10.00
1980.00	29.84	5811.00	2.67	2.95	10.00
2250.00	33.91	5871.00	3.05	3.41	10.00
2340.00	35.27	5979.00	3.27	3.72	10.00
2610.00	39.34	6061.00	3.47	4.01	10.00
2790.00	42.05	6170.00	3.64	4.27	10.00
2970.00	44.76	6278.00	3.77	4.50	10.00
3150.00	47.48	6374.00	3.87	4.70	10.00
3240.00	48.83	6435.00	3.94	4.83	10.00
3420.00	51.55	6494.00	4.00	4.95	10.00
3600.00	54.26	6538.00	4.06	5.05	10.00
3780.00	56.97	6581.00	4.10	5.14	10.00
3960.00	59.69	6643.00	4.15	5.24	10.00
4140.00	62.40	6717.00	4.18	5.35	10.00
4230.00	63.75	6788.00	4.21	5.44	10.00
4410.00	66.47	6824.00	4.23	5.50	10.00
4500.00	67.82	6963.00	4.25	5.64	10.00
4590.00	69.18	7095.00	4.48	6.06	10.00
4770.00	71.89	7225.00	4.66	6.41	10.00
4860.00	73.25	7380.00	4.72	6.64	10.00
4950.00	74.61	7524.00	4.72	6.77	10.00
5040.00	75.96	7660.00	4.71	6.87	10.00
5130.00	77.32	7778.00	4.66	6.90	10.00
5220.00	78.68	7876.00	4.63	6.94	10.00
5310.00	80.03	7970.00	4.57	6.93	10.00
5580.00	84.10	8040.00	4.51	6.91	10.00
5580.00	84.10	8303.00	4.45	7.03	10.00
5670.00	85.46	8469.00	4.38	7.06	10.00
5760.00	86.81	8605.00	4.31	7.07	10.00
5850.00	88.17	8736.00	4.25	7.06	10.00
5940.00	89.53	8865.00	4.17	7.04	10.00
6030.00	90.88	8965.00	4.09	6.98	10.00
6120.00	92.24	9074.00	4.00	6.92	10.00
6210.00	93.60	9168.00	3.91	6.82	10.00
6300.00	94.95	9262.00	3.82	6.74	10.00
6390.00	96.31	9339.00	3.73	6.63	10.00
6480.00	97.67	9430.00	3.64	6.53	10.00
6570.00	99.02	9557.00	3.54	6.44	10.00
6660.00	100.38	9630.00	3.43	6.28	10.00
6750.00	101.74	9743.00	3.33	6.17	10.00
6840.00	103.09	9836.00	3.23	6.05	10.00



20-06-2025 11:06:43-Vario-Super Admin-Max Torque :6.5 Nm4.78 lb-ft@7596 RPM-Max HP: 7.49

HP@8960 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
990.00	14.92	5064.00	0.02	0.02	10.00
1350.00	20.35	5389.00	2.48	2.54	10.00
1440.00	21.70	5577.00	3.02	3.21	10.00
1710.00	25.77	5688.00	3.50	3.79	10.00
1890.00	28.49	5780.00	3.79	4.17	10.00
2070.00	31.20	5860.00	3.98	4.44	10.00
2250.00	33.91	5917.00	4.11	4.63	10.00
2430.00	36.62	5985.00	4.21	4.80	10.00
2610.00	39.34	6102.00	4.29	4.99	10.00
2700.00	40.69	6234.00	4.33	5.14	10.00
2880.00	43.41	6346.00	4.37	5.28	10.00
3060.00	46.12	6473.00	4.40	5.42	10.00
3240.00	48.83	6589.00	4.42	5.55	10.00
3420.00	51.55	6703.00	4.45	5.67	10.00
3600.00	54.26	6813.00	4.47	5.79	10.00
3780.00	56.97	6906.00	4.49	5.90	10.00
3960.00	59.69	6963.00	4.50	5.97	10.00
4140.00	62.40	7045.00	4.52	6.06	10.00
4320.00	65.11	7097.00	4.53	6.13	10.00
4680.00	70.54	7117.00	4.54	6.15	10.00
4770.00	71.89	7269.00	4.78	6.62	10.00
4860.00	73.25	7442.00	4.76	6.74	10.00
5040.00	75.96	7596.00	4.78	6.91	10.00
5130.00	77.32	7745.00	4.75	7.00	10.00
5220.00	78.68	7882.00	4.71	7.07	10.00
5310.00	80.03	8023.00	4.67	7.13	10.00
5580.00	84.10	8149.00	4.63	7.18	10.00
5670.00	85.46	8405.00	4.58	7.33	10.00
5760.00	86.81	8513.00	4.53	7.34	10.00
5940.00	89.53	8754.00	4.49	7.49	10.00
6030.00	90.88	8854.00	4.44	7.49	10.00
6120.00	92.24	8960.00	4.39	7.49	10.00
6210.00	93.60	9038.00	4.33	7.45	10.00
6300.00	94.95	9121.00	4.26	7.40	10.00
6390.00	96.31	9210.00	4.18	7.34	10.00
6480.00	97.67	9354.00	4.10	7.30	10.00
6570.00	99.02	9439.00	4.01	7.20	10.00
6660.00	100.38	9545.00	3.91	7.10	10.00
6750.00	101.74	9655.00	3.80	6.98	10.00
6840.00	103.09	9752.00	3.69	6.85	10.00
6930.00	104.45	9829.00	3.57	6.68	10.00

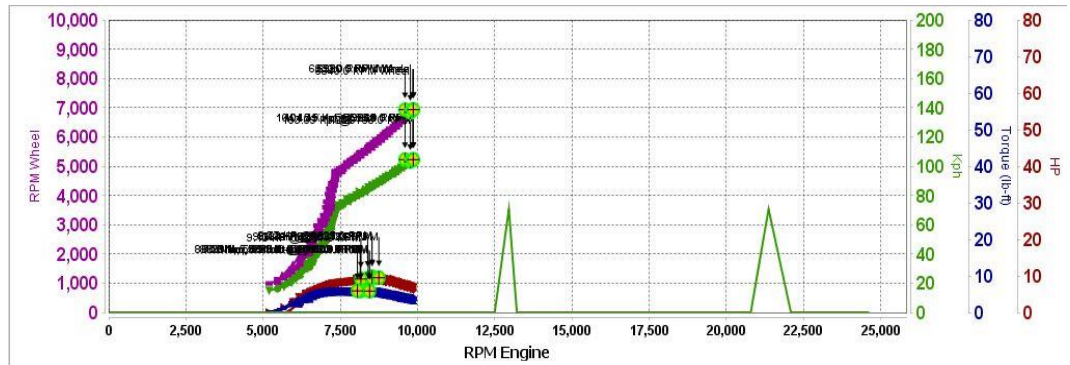
20-06-2025 11:04:18-Vario-Super Admin-Max Torque :6.57 Nm4.83 lb-ft@7818 RPM-Max HP: 7.44

HP@8564 RPM



RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1080.00	16.28	5000.00	0.01	0.01	10.00
1260.00	18.99	5413.00	1.24	1.28	10.00
1530.00	23.06	5642.00	2.19	2.36	10.00
1620.00	24.42	5819.00	2.57	2.85	10.00
1890.00	28.49	5912.00	2.94	3.31	10.00
2160.00	32.56	6033.00	3.27	3.76	10.00
2340.00	35.27	6112.00	3.51	4.09	10.00
2520.00	37.98	6243.00	3.69	4.38	10.00
2700.00	40.69	6314.00	3.83	4.60	10.00
2880.00	43.41	6432.00	3.94	4.82	10.00
2970.00	44.76	6538.00	4.01	4.99	10.00
3240.00	48.83	6662.00	4.08	5.18	10.00
3420.00	51.55	6747.00	4.15	5.33	10.00
3600.00	54.26	6795.00	4.20	5.44	10.00
3780.00	56.97	6839.00	4.25	5.54	10.00
3960.00	59.69	6868.00	4.29	5.61	10.00
4050.00	61.04	6912.00	4.32	5.69	10.00
4230.00	63.75	6991.00	4.35	5.79	10.00
4410.00	66.47	7073.00	4.37	5.89	10.00
4500.00	67.82	7103.00	4.39	5.93	10.00
4680.00	70.54	7195.00	4.63	6.35	10.00
4770.00	71.89	7358.00	4.75	6.65	10.00
4950.00	74.61	7518.00	4.78	6.84	10.00
5040.00	75.96	7686.00	4.83	7.07	10.00
5130.00	77.32	7818.00	4.83	7.19	10.00
5220.00	78.68	7953.00	4.79	7.25	10.00
5400.00	81.39	8075.00	4.75	7.31	10.00
5490.00	82.75	8196.00	4.71	7.35	10.00
5580.00	84.10	8337.00	4.66	7.40	10.00
5670.00	85.46	8448.00	4.61	7.41	10.00
5760.00	86.81	8564.00	4.56	7.44	10.00
5850.00	88.17	8670.00	4.49	7.42	10.00
5940.00	89.53	8771.00	4.42	7.38	10.00
6030.00	90.88	8867.00	4.34	7.33	10.00
6120.00	92.24	8960.00	4.25	7.26	10.00
6210.00	93.60	9027.00	4.16	7.15	10.00
6300.00	94.95	9118.00	4.08	7.08	10.00
6390.00	96.31	9276.00	3.98	7.03	10.00
6480.00	97.67	9339.00	3.88	6.90	10.00
6570.00	99.02	9466.00	3.78	6.82	10.00
6660.00	100.38	9523.00	3.66	6.64	10.00
6750.00	101.74	9621.00	3.55	6.50	10.00
6840.00	103.09	9711.00	3.43	6.35	10.00
6930.00	104.45	9823.00	3.31	6.19	10.00

B.2 Data Hasil Uji Torsi Daya Mesin 125 cc Pertamina Butanol 20 % (PB20)



Dyno Test Result

- RPM_Wheel_Vario_Super Admin_20-06-2025 18:11:45 - RPM_Wheel_Vario_Super Admin_20-06-2025 18:09:01 - RPM_Wheel_Vario_Super Admin_20-06-2025 18:07:02 - RPM_Wheel_Vario_Super Admin_20-06-2025 18:06:12 - Kph_Vario_Super Admin_Live - Kph_Vario_Super Admin_20-06-2025 18:13:03 - Kph_Vario_Super Admin_20-06-2025 18:11:45 - Kph_Vario_Super Admin_20-06-2025 18:09:01 - Kph_Vario_Super Admin_20-06-2025 18:07:02 - Kph_Vario_Super Admin_20-06-2025 18:06:12 - Torque_Vario_Super Admin_Live - Torque_Vario_Super Admin_20-06-2025 18:13:03 - Torque_Vario_Super Admin_20-06-2025 18:11:45 - Torque_Vario_Super Admin_20-06-2025 18:09:01 - Torque_Vario_Super Admin_20-06-2025 18:07:02 - Torque_Vario_Super Admin_20-06-2025 18:06:12 - HP_Vario_Super Admin_Live - HP_Engine_Vario_Super Admin_20-06-2025 18:13:03 - HP_Engine_Vario_Super Admin_20-06-2025 18:11:45 - HP_Engine_Vario_Super Admin_20-06-2025 18:09:01 - HP_Engine_Vario_Super Admin_20-06-2025 18:07:02 - HP_Engine_Vario_Super Admin_20-06-2025 18:06:12
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Date&Time	Engine	Owner	Max RPM Wheel	Max Kph	Max RPM Engine	Max Torque	Max HP	Max AFR
20-06-2025 18:13:03	Vario	Super Admin	6840	103.09 @9768 RPM	9768	8.02 Nm5.9 lb-ft@8143 RPM	9.33 HP@8386 RPM	10@8386 RPM
20-06-2025 18:11:45	Vario	Super Admin	6930	104.45 @9855 RPM	9855	8.28 Nm6.09 lb-ft@8403 RPM	9.77 HP@8525 RPM	10@8525 RPM
20-06-2025 18:09:01	Vario	Super Admin	6930	104.45 @9865 RPM	9865	8.15 Nm5.99 lb-ft@8161 RPM	9.43 HP@8527 RPM	10@8527 RPM
20-06-2025 18:07:02	Vario	Super Admin	6930	104.45 @9848 RPM	9848	7.93 Nm5.83 lb-ft@8448 RPM	9.48 HP@8748 RPM	10@8748 RPM

20-06-2025 18:06:12	Vario	Super Admin	6930	104.45 @9861 RPM	9861	8 Nm5.88 lb- ft@805 3 RPM	9.13 HP@81 67 RPM	10@81 67 RPM
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20-06-2025 18:13:03-Vario -Super Admin-Max Torque :8.02 Nm5.9 lb-ft@8143 RPM-Max HP: 9.33
HP@8386 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1350.00	20.35	5841.00	0.00	0.00	10.00
1710.00	25.77	6155.00	2.47	2.89	10.00
1980.00	29.84	6349.00	3.56	4.30	10.00
2340.00	35.27	6476.00	4.36	5.38	10.00
2520.00	37.98	6618.00	4.77	6.01	10.00
2790.00	42.05	6740.00	5.07	6.51	10.00
3060.00	46.12	6854.00	5.30	6.92	10.00
3240.00	48.83	6941.00	5.45	7.20	10.00
3420.00	51.55	7029.00	5.54	7.42	10.00
3690.00	55.62	7062.00	5.63	7.57	10.00
3870.00	58.33	7095.00	5.69	7.68	10.00
4050.00	61.04	7134.00	5.73	7.78	10.00
4230.00	63.75	7171.00	5.75	7.85	10.00
4410.00	66.47	7234.00	5.77	7.95	10.00
4770.00	71.89	7276.00	5.77	7.99	10.00
4860.00	73.25	7427.00	5.75	8.14	10.00
4950.00	74.61	7583.00	5.73	8.27	10.00
5040.00	75.96	7737.00	5.70	8.40	10.00
5220.00	78.68	7884.00	5.67	8.52	10.00
5310.00	80.03	8017.00	5.64	8.61	10.00
5400.00	81.39	8143.00	5.90	9.15	10.00
5490.00	82.75	8287.00	5.89	9.30	10.00
5670.00	85.46	8386.00	5.84	9.33	10.00
5760.00	86.81	8532.00	5.72	9.29	10.00
5850.00	88.17	8640.00	5.61	9.22	10.00
5940.00	89.53	8741.00	5.48	9.11	10.00
6030.00	90.88	8865.00	5.33	8.99	10.00
6120.00	92.24	8968.00	5.18	8.85	10.00
6210.00	93.60	9044.00	5.04	8.68	10.00
6300.00	94.95	9205.00	4.88	8.55	10.00
6390.00	96.31	9299.00	4.71	8.35	10.00
6480.00	97.67	9363.00	4.55	8.11	10.00
6570.00	99.02	9475.00	4.38	7.91	10.00
6660.00	100.38	9538.00	4.21	7.65	10.00
6750.00	101.74	9686.00	4.05	7.47	10.00
6840.00	103.09	9768.00	3.90	7.24	10.00

20-06-2025 18:11:45-Vario -Super Admin-Max Torque :8.28 Nm6.09 lb-ft@8403 RPM-Max HP: 9.77
HP@8525 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
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990.00	14.92	5196.00	0.02	0.02	10.00
1170.00	17.63	5676.00	1.25	1.35	10.00
1530.00	23.06	6064.00	2.48	2.86	10.00
1890.00	28.49	6250.00	3.40	4.04	10.00
2160.00	32.56	6378.00	4.00	4.86	10.00
2430.00	36.62	6500.00	4.43	5.48	10.00
2700.00	40.69	6621.00	4.75	5.99	10.00
2970.00	44.76	6740.00	5.00	6.42	10.00
3150.00	47.48	6866.00	5.18	6.77	10.00
3330.00	50.19	6958.00	5.30	7.02	10.00
3600.00	54.26	7025.00	5.41	7.24	10.00
3780.00	56.97	7057.00	5.49	7.38	10.00
4050.00	61.04	7109.00	5.56	7.53	10.00
4230.00	63.75	7154.00	5.62	7.65	10.00
4410.00	66.47	7221.00	5.66	7.78	10.00
4860.00	73.25	7416.00	5.68	8.02	10.00
4950.00	74.61	7558.00	5.68	8.18	10.00
5130.00	77.32	7712.00	5.68	8.35	10.00
5220.00	78.68	7863.00	5.68	8.50	10.00
5310.00	80.03	8012.00	5.66	8.64	10.00
5400.00	81.39	8154.00	5.93	9.21	10.00
5490.00	82.75	8280.00	6.08	9.59	10.00
5670.00	85.46	8403.00	6.09	9.74	10.00
5760.00	86.81	8525.00	6.02	9.77	10.00
5850.00	88.17	8638.00	5.93	9.75	10.00
5940.00	89.53	8751.00	5.81	9.68	10.00
6030.00	90.88	8857.00	5.68	9.57	10.00
6120.00	92.24	8960.00	5.53	9.43	10.00
6210.00	93.60	9049.00	5.38	9.27	10.00
6300.00	94.95	9216.00	5.23	9.18	10.00
6390.00	96.31	9293.00	5.07	8.97	10.00
6480.00	97.67	9354.00	4.91	8.74	10.00
6570.00	99.02	9487.00	4.72	8.53	10.00
6660.00	100.38	9538.00	4.54	8.25	10.00
6930.00	104.45	9596.00	4.37	7.98	10.00
6840.00	103.09	9771.00	4.21	7.83	10.00
6930.00	104.45	9855.00	4.05	7.61	10.00

20-06-2025 18:09:01-Vario -Super Admin-Max Torque :8.15 Nm5.99 lb-ft@8161 RPM-Max HP: 9.43 HP@8527 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1260.00	18.99	5616.00	0.00	0.00	10.00
1620.00	24.42	5961.00	2.47	2.80	10.00
1890.00	28.49	6158.00	3.56	4.18	10.00
2160.00	32.56	6381.00	4.21	5.12	10.00
2340.00	35.27	6544.00	4.55	5.67	10.00
2610.00	39.34	6693.00	4.82	6.14	10.00
2880.00	43.41	6825.00	5.04	6.54	10.00



3150.00	47.48	6991.00	5.21	6.94	10.00
3420.00	51.55	7097.00	5.36	7.25	10.00
3600.00	54.26	7208.00	5.47	7.51	10.00
3780.00	56.97	7218.00	5.54	7.62	10.00
4050.00	61.04	7237.00	5.61	7.73	10.00
4230.00	63.75	7253.00	5.66	7.82	10.00
4410.00	66.47	7290.00	5.70	7.91	10.00
4590.00	69.18	7315.00	5.72	7.97	10.00
4680.00	70.54	7333.00	5.73	8.00	10.00
4860.00	73.25	7451.00	5.73	8.13	10.00
4950.00	74.61	7602.00	5.73	8.29	10.00
5130.00	77.32	7747.00	5.72	8.43	10.00
5220.00	78.68	7878.00	5.70	8.56	10.00
5310.00	80.03	8019.00	5.98	9.13	10.00
5400.00	81.39	8161.00	5.99	9.31	10.00
5490.00	82.75	8280.00	5.95	9.38	10.00
5580.00	84.10	8396.00	5.88	9.40	10.00
5670.00	85.46	8527.00	5.81	9.43	10.00
5760.00	86.81	8620.00	5.72	9.38	10.00
5850.00	88.17	8726.00	5.60	9.31	10.00
5940.00	89.53	8833.00	5.47	9.20	10.00
6030.00	90.88	8941.00	5.32	9.06	10.00
6120.00	92.24	9038.00	5.17	8.90	10.00
6210.00	93.60	9099.00	5.03	8.71	10.00
6300.00	94.95	9182.00	4.86	8.50	10.00
6390.00	96.31	9322.00	4.69	8.33	10.00
6480.00	97.67	9383.00	4.52	8.08	10.00
6570.00	99.02	9496.00	4.35	7.87	10.00
6660.00	100.38	9596.00	4.18	7.64	10.00
6750.00	101.74	9668.00	4.01	7.38	10.00
6840.00	103.09	9794.00	3.84	7.17	10.00
6930.00	104.45	9865.00	3.67	6.89	10.00

20-06-2025 18:07:02-Vario -Super Admin-Max Torque :7.93 Nm5.83 lb-ft@8448 RPM-Max HP: 9.48 HP@8748 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1260.00	18.99	5799.00	0.00	0.01	10.00
1620.00	24.42	6203.00	2.47	2.91	10.00
1980.00	29.84	6444.00	3.83	4.71	10.00
2160.00	32.56	6584.00	4.42	5.54	10.00
2520.00	37.98	6694.00	4.91	6.26	10.00
2700.00	40.69	6801.00	5.19	6.72	10.00
2970.00	44.76	6933.00	5.40	7.13	10.00
3240.00	48.83	7045.00	5.57	7.48	10.00
3420.00	51.55	7134.00	5.68	7.72	10.00
3600.00	54.26	7216.00	5.76	7.91	10.00
4230.00	63.75	7244.00	5.78	7.97	10.00
4410.00	66.47	7295.00	5.79	8.04	10.00



4590.00	69.18	7308.00	5.79	8.05	10.00
4680.00	70.54	7333.00	5.77	8.06	10.00
4860.00	73.25	7446.00	5.76	8.16	10.00
4950.00	74.61	7581.00	5.73	8.27	10.00
5040.00	75.96	7733.00	5.70	8.39	10.00
5130.00	77.32	7849.00	5.66	8.46	10.00
5490.00	82.75	8110.00	5.62	8.69	10.00
5580.00	84.10	8326.00	5.58	8.85	10.00
5670.00	85.46	8448.00	5.83	9.38	10.00
5760.00	86.81	8544.00	5.81	9.46	10.00
5850.00	88.17	8748.00	5.69	9.48	10.00
5940.00	89.53	8828.00	5.59	9.39	10.00
6030.00	90.88	8915.00	5.42	9.21	10.00
6120.00	92.24	8992.00	5.27	9.03	10.00
6210.00	93.60	9068.00	5.10	8.81	10.00
6300.00	94.95	9199.00	4.91	8.60	10.00
6390.00	96.31	9267.00	4.73	8.34	10.00
6480.00	97.67	9369.00	4.54	8.10	10.00
6570.00	99.02	9472.00	4.37	7.89	10.00
6660.00	100.38	9560.00	4.20	7.65	10.00
6750.00	101.74	9658.00	4.02	7.40	10.00
6840.00	103.09	9746.00	3.85	7.15	10.00
6930.00	104.45	9848.00	3.68	6.89	10.00

20-06-2025 18:06:12-Vario -Super Admin-Max Torque :8 Nm5.88 lb-ft@8053 RPM-Max HP: 9.13
HP@8167 RPM

RPM Wheel	Kph	RPM Engine	Torque	HP	AFR
1080.00	16.28	5466.00	0.06	0.06	10.00
1440.00	21.70	5925.00	2.51	2.83	10.00
2070.00	31.20	6513.00	3.73	4.63	10.00
2340.00	35.27	6628.00	4.42	5.58	10.00
2610.00	39.34	6726.00	4.87	6.23	10.00
2790.00	42.05	6833.00	5.12	6.66	10.00
3060.00	46.12	6963.00	5.32	7.05	10.00
3240.00	48.83	7043.00	5.44	7.30	10.00
3420.00	51.55	7124.00	5.52	7.49	10.00
3690.00	55.62	7177.00	5.60	7.65	10.00
3870.00	58.33	7213.00	5.65	7.76	10.00
4050.00	61.04	7225.00	5.68	7.82	10.00
4230.00	63.75	7269.00	5.71	7.90	10.00
4410.00	66.47	7315.00	5.72	7.97	10.00
4590.00	69.18	7349.00	5.73	8.02	10.00
4770.00	71.89	7433.00	5.72	8.09	10.00
4860.00	73.25	7556.00	5.70	8.19	10.00
5040.00	75.96	7704.00	5.68	8.33	10.00
5130.00	77.32	7818.00	5.65	8.41	10.00
5220.00	78.68	7944.00	5.62	8.50	10.00
5310.00	80.03	8053.00	5.88	9.01	10.00



5400.00	81.39	8167.00	5.87	9.13	10.00
5490.00	82.75	8269.00	5.78	9.11	10.00
5580.00	84.10	8386.00	5.67	9.06	10.00
5670.00	85.46	8479.00	5.54	8.94	10.00
5760.00	86.81	8581.00	5.42	8.85	10.00
5850.00	88.17	8655.00	5.27	8.69	10.00
5940.00	89.53	8831.00	5.13	8.62	10.00
6030.00	90.88	8899.00	4.99	8.45	10.00
6120.00	92.24	8971.00	4.83	8.24	10.00
6210.00	93.60	9099.00	4.66	8.08	10.00
6300.00	94.95	9210.00	4.49	7.88	10.00
6390.00	96.31	9305.00	4.32	7.66	10.00
6480.00	97.67	9395.00	4.14	7.41	10.00
6570.00	99.02	9463.00	3.96	7.14	10.00
6660.00	100.38	9572.00	3.79	6.91	10.00
6750.00	101.74	9671.00	3.62	6.67	10.00
6840.00	103.09	9781.00	3.45	6.42	10.00
6930.00	104.45	9861.00	3.27	6.15	10.00

Lampiran A.2 : Formulir Kesiediaan Pembimbing dan Judul Tugas Akhir



POLITEKNIK HARAPAN BERSAMA
The True Vocational Campus

PENGAJUAN KESEDIAAN PEMBIMBING DAN JUDUL TUGAS AKHIR

Kami yang bertanda tangan dibawah ini :

No	NIDN/NUPN	Nama (lengkap dengan gelar)	Keterangan
1	0616079002	Faqih Fatkhurrozak, M.T	Pembimbing I
2	0607128303	Andre Budhi Hendrawan, M.T	Pembimbing II

Menyatakan **BERSEDIA / TIDAK BERSEDIA** membimbing Tugas Akhir mahasiswa berikut :

No	NIM	Nama Mahasiswa	Kelas
1	22021016	Dendy Prasetyo	6C
2	22021003	Annas Zulfan Udin	6C
3	22021001	Galang Augustha Ethik Prasodjo	6C
4	22021006	Eki Agustian	6C
⑤	22021020	Setiyo Budi Gagah Pratama	6C
6	20020024	Nasrullah Husni Mubarak	6C
Produk Tugas Akhir		Dyno Test	

Sesuai dengan waktu yang telah disepakati, Tugas Akhir dilaksanakan mulai bulan
Maret tahun 2025 sampai dengan pelaksanaan Sidang Tugas Akhir bulan
Juli tahun 2025

Tegal, 7 Maret 2025

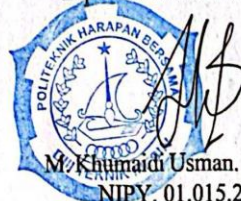
Pembimbing 1,

(Faqih Fatkhurrozak, M.T)
NIDN. 0616079002

Pembimbing 2,

(Andre Budhi Hendrawan, M.T)
NIDN. 0607128303

Ketua Program Studi
Diploma III Teknik Mesin



M. Khumaidi Usman, M.Eng
NIPY. 01.015.263

Lampiran 3 : Lembar Bimbingan laporan TA

LEMBAR BIMBINGAN TUGAS AKHIR



Nama Mahasiswa	: Setiyo Budi Gagah Pratama
Nomor Induk Mahasiswa	: 22021020
Nama Pembimbing PKL	: Pembimbing 1 Faqih Fatkhurrozak, M.T Pembimbing 2 Andre Budhi Hendrawan, ST, MT
Judul Laporan PKL	: PENGUJIAN PENGGUNAAN BAHAN BAKAR CAMPURAN PERTAMAX DAN BUTANOL 20% TERHADAP TORSI DAN DAYA MESIN BENSIN 125 CC MENGGUNAKAN DYNOTETS

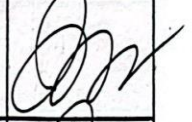
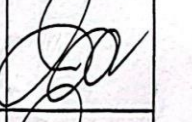
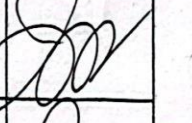
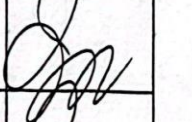
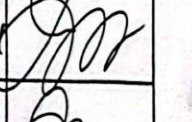
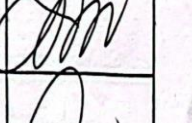
**PROGRAM STUDI DIII TEKNIK MESIN
POLITEKNIK HARAPAN BERSAMA TEGAL**

2025

Rekap Pembimbingan Penyusunan Laporan Tugas Akhir

PEMBIMBING I		Nama	Faqih Fatkhurrozaq, M.T		
		NIDN/NUPN	0616079002		
No	Hari	Tanggal	Uraian	Tanda Tangan	
1	Senin	14 / April 2025	Bimbingan Tema TA	[Signature]	
2	Rabu	21 / Mei 2025	Bimbingan Bab I & II	[Signature]	
3	Kamis	26 / Juni 2025	Revisi bab I & II	[Signature]	
4	Selasa	1 / Juli 2025	Bimbingan bab III & IV	[Signature]	
5	Jum'at	4 / Juli 2025	Revisi bab IV & V	[Signature]	
6	Senin	7 / Juli 2025	Bimbingan bab V, PPT, Jurnal	[Signature]	
7	Jum'at	11 / Juli 2025	Revisi bab I, PPT, Jurnal	[Signature]	
8	Senin	14 / Juli 2025	ACC	[Signature]	
9					
10					

Rekap Pembimbingan Penyusunan Laporan Tugas Akhir

PEMBIMBING II		Nama	Andre Budi Hendrawan, P.T		
		NIDN/NUPN	0607129303		
No	Hari	Tanggal	Uraian	Tanda Tangan	
1	Kamis	17 / April 2025	Bimbingan Tema TA		
2	Senin	26 / Mei 2025	Bimbingan Bab I dan II		
3	Senin	30 / Juni 2025	Revisi Bab I dan II		
4	Rabu	2 / Juli 2025	Bimbingan Bab III dan IV		
5	Kamis	3 / Juli 2025	Revisi Bab III dan IV		
6	Jum'at	4 / Juli 2025	Bimbingan Bab V Ppt Jurnal		
7	Senin	7 / Juli 2025	Revisi Bab V Ppt Jurnal		
8	Senin	14 / Juli 2025	Acc		
9					
10					