

## Program Studi Teknik Mesin

### Lembar Persetujuan Naskah Publikasi dan Abstrak Tugas Akhir (TA)

Judul TA: Kajian Eksperimental Tentang Pengaruh Variasi Timing Pengapian Dengan Menggunakan CDI Programmable Pada Sepeda Motor Yamaha Scorpio - z 225 cc Tahun 2010 Berbahan Bakar Pertamax 92

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Nama Mahasiswa: Ahmad Prianto

NIM: 20130130381

Pembimbing 1: Teddy Nurcahyadi, S.T., M.Eng

Pembimbing 2: Thocharudin, S.T., M.T

Hal yang dimintakan persetujuan \*:

<input checked="" type="checkbox"/> Abstrak berbahasa Indonesia	<input checked="" type="checkbox"/> Naskah Publikasi	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Abstrak berbahasa Inggris	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*berikan tanda  di kotak yang sesuai!

  
Ahmad Prianto

Tanggal

### Persetujuan Dosen Pembimbing dan Program Studi

Disetujui

  
Teddy Nurcahyadi, S.T., M.Eng

  
Thocharudin, S.T., M.T



7 Juli 2018  
Tanggal

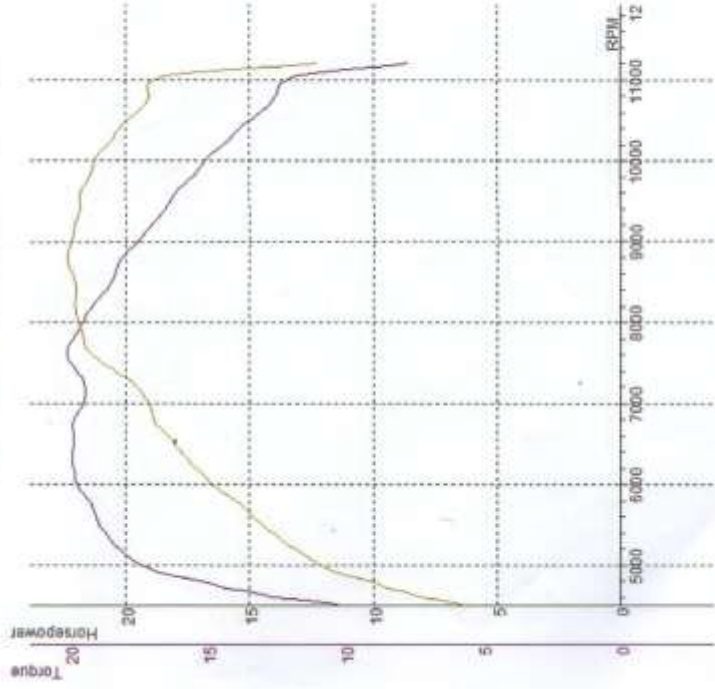
09 Agustus 2018  
Tanggal

Formulir persetujuan ini mohon diletakkan pada lampiran terakhir pada naskah TA.

TEST NAME: UMY DYNO TEST SUCCORPHO T069 | MAX POWER: 22.41 HP | MAX TORQUE: 20.69 (20.69) Nm | Temp, °C: 32.7 °C | Humidity %: 64 % | Pressure: 1015.0 mbar | RPM: 101.5 | Date/Time: 11/22/2017 4:19:05 PM

DATA FOR TEST: UMY DYNO TEST SECORPHO T069

Comments: CEK STD-COIL STD-BUSI BRDIU M-PEHTAMAX 92



RPM	HP	Torque (Nm)	T
4250	7.3	11.47	0.52
4500	8.0	12.55	0.54
4750	10.0	15.08	0.60
5000	12.3	17.58	0.70
5250	13.6	18.48	0.80
5500	14.5	18.92	0.88
5750	15.4	19.19	0.96
6000	16.6	19.74	1.06
6250	17.5	19.89	1.16
6500	18.1	19.85	1.24
6750	18.8	19.81	1.34
7000	19.1	19.46	1.42
7250	19.9	19.53	1.52
7500	21.1	20.01	1.60
7750	21.5	20.89	1.64
8000	21.7	19.88	1.70
8250	21.9	19.51	1.78
8500	22.0	19.07	1.88
8750	22.0	18.43	1.98
9000	22.3	18.43	2.08
9250	22.4	18.18	2.10
9500	22.4	18.09	2.20
9750	22.1	17.44	2.30
10000	22.0	16.95	2.42
10250	21.8	16.27	2.54
10500	21.8	15.61	2.66
10750	21.2	15.04	2.80
11000	20.5	14.14	2.94
11250	19.8	13.31	3.08
11500	19.0	12.55	3.08
11750	18.7	12.02	3.24

LOSSES: 0.0 HP  
TOTAL HP/E: 22.41 HP  
0.0% \*N/M  
30.0% \*N/M

TEST NAME: DYN0 TEST SEC008P0103 | MAX POWER: 22.5 (32.31) @ 697 | MAX TORQUE: 20.23 (29.23) @ 748 | Temp °C: 33.1 °C | Humidity %: 58 % | Pressure: 1000.0 mbar | KMH: 101.3 | Date/Time: 12/6/2017 3:42:53 PM

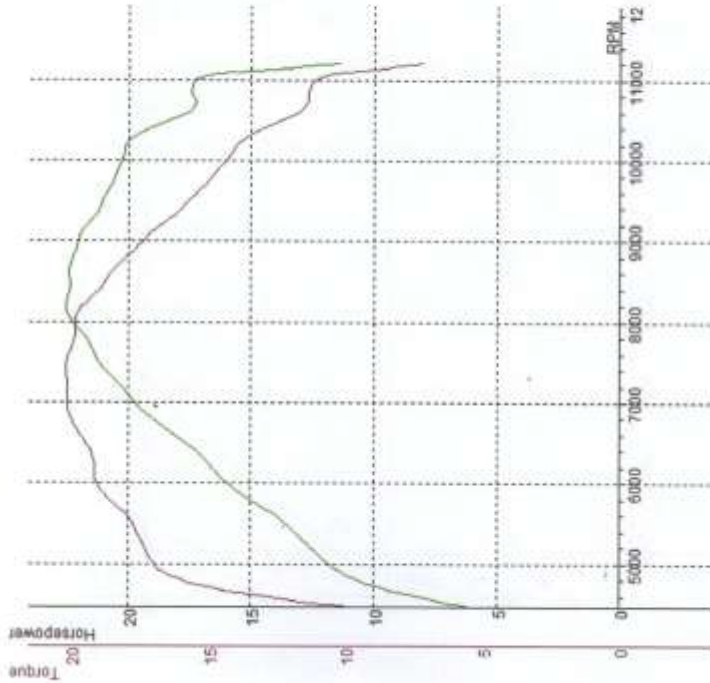
DATA FOR TEST: DYN0 TEST SEC008P0103

Comments

CEB STD-COIL RACING (R/S) BREDUM+PERUAMA X 90<sub>2</sub>

RPM	HP (HP)	N·m	HP (HP)	N·m
4500	7.0	11.34	0.31	0.34
4750	10.4	15.48	0.82	0.82
5000	11.9	17.01	0.72	0.72
5250	12.8	17.82	0.92	0.92
5500	13.7	18.64	1.10	1.10
5750	15.1	19.12	1.20	1.20
6000	16.0	19.20	1.28	1.28
6300	17.8	19.56	1.36	1.36
6750	18.8	19.97	1.46	1.46
7000	19.8	20.17	1.54	1.54
7250	20.5	20.19	1.58	1.58
7500	20.9	20.33	1.64	1.64
7750	21.3	20.16	1.72	1.72
8000	21.7	19.91	1.82	1.82
8250	22.4	19.62	1.92	1.92
8500	22.4	19.30	2.00	2.00
8750	22.3	18.77	2.12	2.12
9000	22.0	18.03	2.22	2.22
9250	21.4	17.36	2.34	2.34
9500	21.0	16.41	2.48	2.48
9750	20.6	15.65	2.64	2.64
10000	20.2	14.93	2.70	2.70
10250	19.9	14.36	2.84	2.84
10500	18.2	13.76	3.00	3.00
10750	17.4	12.24	3.16	3.16
11000	17.2	11.41	3.32	3.32

LOSSES: 0.0 HP  
TOTAL ENGINE: 22.5HP  
0.0N·m @ 11000 RPM  
20.23N·m @ 7480 RPM



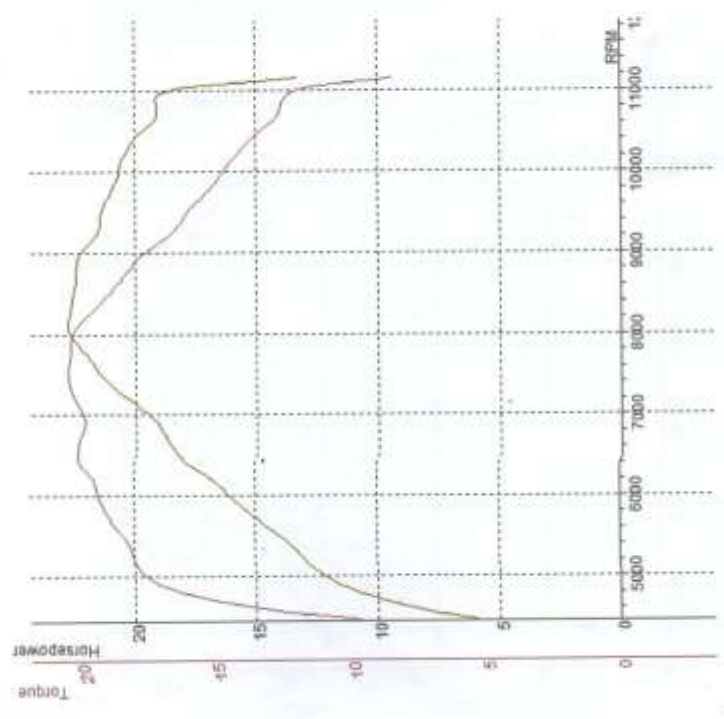
TEST NAME: UMY DYNO TESTE SIKORPPO 1092 | MAX POWER: 22.43 (22.43) HP | MAX TORQUE: 16.32 (16.32) N·M | Temp: °C: 32.5 °C | Humidity: %: 65 % | Pressure: 1000.0 mmHg | KMH: 100.4 | Date/Time: 12/18/2017 11:47:01 AM

DATA FOR TEST: UMY DYNO TESTE SIKORPPO 1092

Comments: CFTACING-COIL-STD-BUSI BRIDJUM+PERTAMAX 92

RPM	HP (HP)	N·M (N·M)	T
4250	9.8	16.32	0.57
4500	7.7	12.13	0.54
4750	10.4	15.67	0.62
5000	12.2	17.30	0.72
5250	13.1	17.94	0.82
5500	14.2	18.44	0.92
5750	15.3	18.97	1.02
6000	16.1	19.25	1.10
6250	17.3	19.67	1.20
6500	18.2	20.08	1.28
6750	18.8	19.90	1.38
7000	19.5	19.89	1.46
7250	20.7	20.33	1.56
7500	<b>21.3</b>	<b>20.63</b>	1.62
7750	21.5	20.41	1.64
8000	22.2	20.32	1.74
8250	22.7	20.24	1.82
8500	<b>22.8</b>	20.01	1.86
8750	22.7	19.57	1.92
9000	22.5	18.85	2.02
9250	22.4	18.23	2.12
9500	22.2	17.49	2.24
9750	21.3	16.44	2.36
10000	20.9	15.20	2.48
10250	20.6	14.62	2.72
10500	20.3	14.00	2.86
10750	19.7	13.27	3.00
11000	19.1	12.54	3.16
11000	18.2	11.66	3.34

LOSSES: 0.0 HP | 0.0N·M  
TOTAL ENGINE: 22.43HP | 20.43N·M

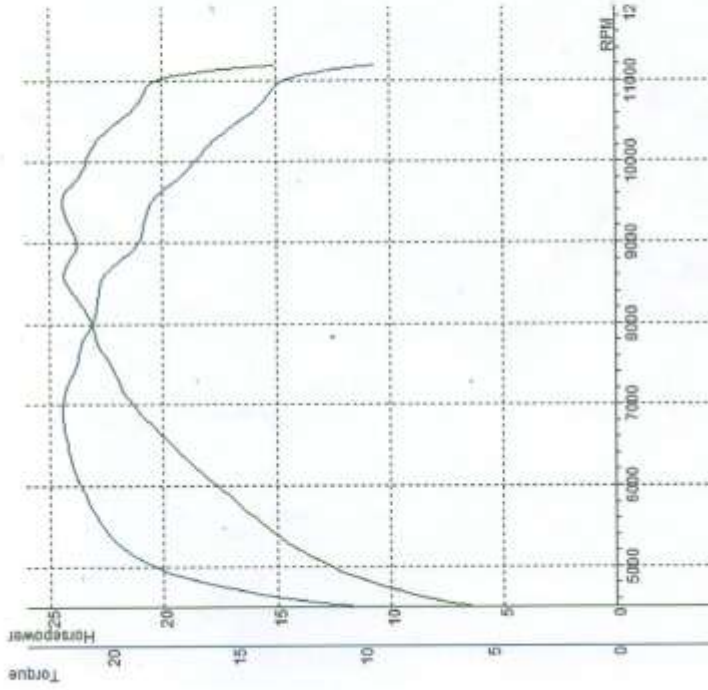


Hydraulic Correction  
Correction Factor: 80.15%

TEST NAME: UNIV DYNO TEST SECCORPIO T105  
 MAX POWER: 21.84 (21.84) / 0.67  
 Temp: °C: 31.1 °C  
 Humidity: %: 70.4  
 Pressure: 1000.0 mmHg  
 KMH: 102.4  
 Date/Time: 2/14/2018 4:05:16 PM

DATA FOR TEST: UNIV DYNO TEST SECCORPIO T105

Comments: CDI RACING-COIL RACING-BUSI IRIDIUM-PIERTAMA X92



RPM	HP (0.0012 IN*MM)	T
4250	7.4	11.85
4500	8.2	12.80
4750	10.3	15.64
5000	12.9	18.42
5250	14.3	19.34
5500	15.6	20.33
5750	16.6	20.75
6000	17.9	21.19
6250	18.8	21.46
6500	19.7	21.63
6750	20.5	21.79
7000	20.9	21.84
7250	21.5	21.79
7500	21.9	21.58
7750	22.4	21.22
8000	22.9	21.07
8250	23.2	20.99
8500	23.7	20.44
8750	24.3	19.94
9000	24.1	19.60
9250	23.8	18.78
9500	24.2	18.60
9750	24.4	18.32
10000	24.4	18.22
10250	23.9	17.41
10500	23.4	16.58
10750	22.9	15.87
11000	21.9	14.76
11250	21.0	13.82
11500	20.2	12.96
11750		
12000		

LOSSES: 0.0 HP  
 TOTAL ENGINE: 21.84 HP