

## LAMPIRAN

### Lampiran 1. Hasil kuisisioner nilai percikan bunga api

#### KUISISIONER HASIL PERCIKAN BUNGA API

NAMA : Ulvin Nurhan  
NIM : 26140720016  
JURUSAN : PAI  
UNIVERSITAS : UMY

No	Jenis Busi	Nilai Percikan Bunga Api		
		Warna	Kestabilan	Ukuran
1	DENSO STANDAR	4	3	4
2	AUTOLITE	5	6	5
3	NGK-R CPR6	6	4	6
4	NGK-R CPR9	3	2	8
5	NGK CPR6GP	8	7	2
6	TDR 065	2	5	3
7	RACING BEE	8	8	7
8	DENSO IU27	7	8	1

KUISIONER HASIL PERCIKAN BUNGA API

NAMA : Nisa Andia  
 NIM : 515071115  
 JURUSAN : F. Elektro  
 UNIVERSITAS : Universitas Jogyakarta

No	Jenis Busi	Nilai Percikan Bunga Api		
		Warna	Kestabilan	Ukuran
1	DENSO STANDAR	4	4	2
2	AUTOLITE	2	5	5
3	NGK-R CPR6	8	3	6
4	NGK-R CPR9	7	6	7
5	NGK CPR6GP	8	7	4
6	TDR 065	1	2	3
7	RACING BEE	3	1	8
8	DENSO IU27	5	8	1

### KUISIONER HASIL PERCIKAN BUNGA API

NAMA : Annas Ameny

NIM : 201600120038

JURUSAN : Teknik elektro

UNIVERSITAS : UMY

No	Jenis Busi	Nilai Percikan Bunga Api		
		Warna	Kestabilan	Ukuran
1	DENSO STANDAR	4	6	3
2	AUTOLITE	2	5	4
3	NGK-R CPR6	8	3	7
4	NGK-R CPR9	3	2	8
5	NGK CPR6GP	6	7	2
6	TDR 065	1	4	5
7	RACING BEE	4	1	6
8	DENSO IU27	5	8	1

KUISIONER HASIL PERCIKAN BUNGA API

NAMA : Ardi Dwi R.  
 NIM : 20120130154  
 JURUSAN : T. Mesin  
 UNIVERSITAS : UMY

No	Jenis Busi	Nilai Percikan Bunga Api		
		Warna	Kestabilan	Ukuran
1	DENSO STANDAR	7	6	5
2	AUTOLITE	1	1	3
3	NGK-R CPR6	4	3	6
4	NGK-R CPR9	6	4	8
5	NGK CPR6GP	8	7	2
6	TDR 065	2	5	4
7	RACING BEE	3	2	7
8	DENSO IU27	5	8	1

KUISIONER HASIL PERCIKAN BUNGA API

NAMA : Wahyu Bintang Nugraha  
 NIM : 20120130178  
 JURUSAN : Teknik Mesin  
 UNIVERSITAS : Universitas Muhammadiyah Yogyakarta

No	Jenis Busi	Nilai Percikan Bunga Api		
		Warna	Kestabilan	Ukuran
1	DENSO STANDAR	7	6	2
2	AUTOLITE	1	<del>2</del> 3	4
3	NGK-R CPR6	8	5	6
4	NGK-R CPR9	5	2	7
5	NGK CPR6GP	4	7	3
6	TDR 065	2	4	5
7	RACING BEE	3	1	8
8	DENSO IU27	6	8	1

KUISIONER HASIL PERCIKAN BUNGA API

NAMA : Achmad Far Firo  
 NIM : 20120130140  
 JURUSAN : Teknik Mesin  
 UNIVERSITAS : Universitas Muhammadiyah Yogyakarta

No	Jenis Busi	Nilai Percikan Bunga Api		
		Warna	Kestabilan	Ukuran
1	DENSO STANDAR	4	3	4
2	AUTOLITE	1	4	5
3	NGK-R CPR6	5	7	3
4	NGK-R CPR9	6	2	4
5	NGK CPR6GP	7	6	2
6	TDR 065	2	5	6
7	RACING BEE	3	1	8
8	DENSO IU27	8	6	1

Lampiran 2. Print Out Hasil Mototech





PT. MOTOTECH INDONESIA  
 Jl. Kibinong No. 44 - Kembangan, Jakarta Barat, Indonesia  
 Telp : +62 274 65 363 93

SPORTDYNO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.46

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

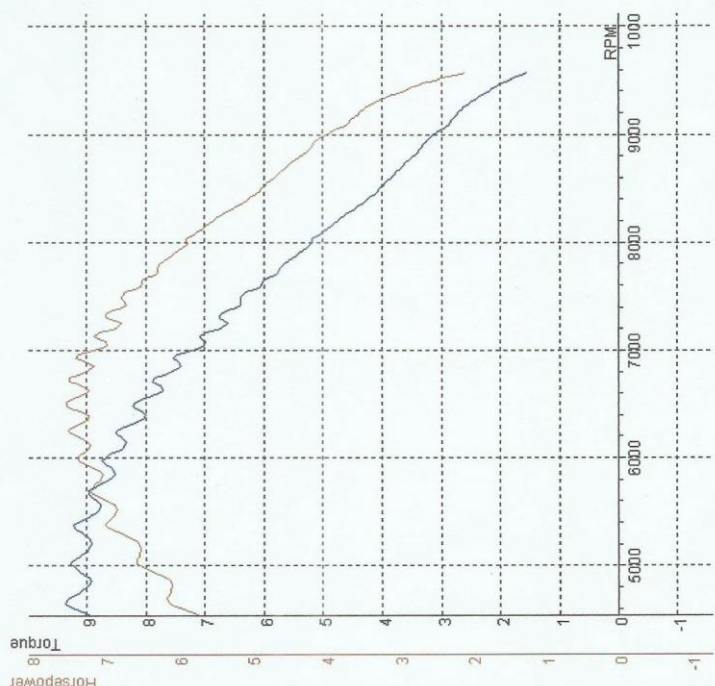
TEST NAME: KARISMA X 125 T002 | MAX POWER: 75 (0.5) / 6493 | Temp. °C: 27.6 °C | Humidity: %: 86 % | Pressure: 1000.0 mbar | KMH: 98.6 | MAX TORQUE: 9.36 (9.36) / 4650

DATE FOR TEST: KARISMA X 125 T002

RPM	HP (HP)	HP (N*M*M)	T
4250	3.8	9.07	0.52
4500	5.9	9.17	0.54
4680	6.1	9.36	0.60
4750	6.1	9.12	0.70
5000	6.5	9.25	0.94
5250	6.6	8.96	1.18
5500	6.8	8.79	1.44
5750	7.1	8.77	1.68
6000	7.3	8.66	1.94
6250	7.5	8.47	2.20
6493	7.5	8.21	2.46
6500	7.5	8.17	2.48
6750	7.4	7.77	2.76
7000	7.1	7.18	3.06
7250	6.8	6.63	3.38
7500	6.8	6.37	3.74
7750	6.3	5.73	4.14
8000	5.9	5.19	4.60
8250	5.4	4.62	5.08
8500	4.9	4.04	5.60
8750	4.4	3.54	6.26
9000	4.0	3.11	6.96
9250	3.4	2.61	7.84
9500	2.5	1.85	9.14

Comments  
 CDI STD BUSIDENSO STD PREMIUM

LOSSES: 0.0 HP  
 TOTAL ENGINE: 7.5HP  
 0.0N\*M\*M  
 9.36N\*M\*M







Dipercayakan Oleh Industri Rempuk  
 Jl. Ringroad Selatan, Kawasan Singsoran,  
 Banguntapan, Bantul, Yogyakarta.  
 Telp + 62 274 85 305 03

SPORTIVO V33  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell included.

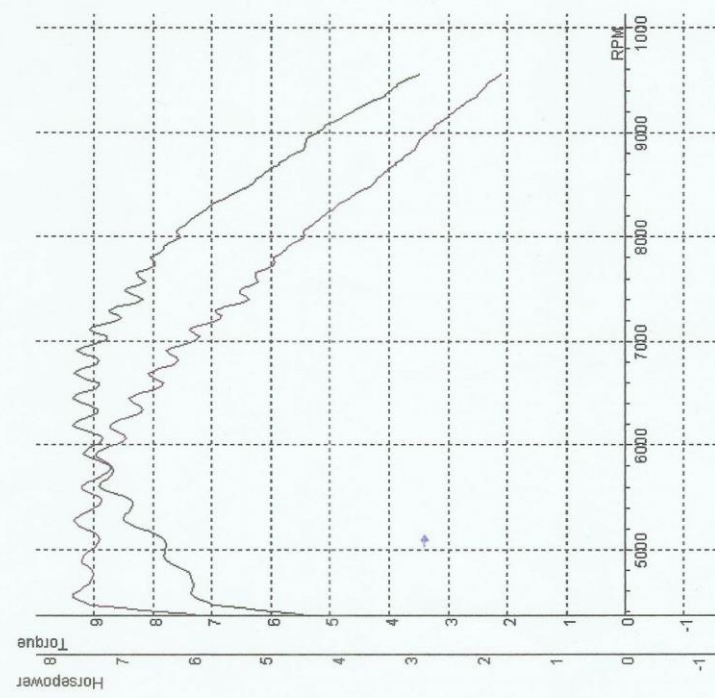
TEST NAME: KARISMA X 125 T003  
 MAX POWER: 7.6 (7.6) / 6461  
 MAX TORQUE: 9.36 (9.36) / 4558  
 Temp. °C: 27.6 °C  
 Humidity %: 86 %  
 Pressure: 1000.0 mbar  
 KM/H: 98.3  
 Date/Time: 12/5/2016 10:03:24 AM

DATA FOR TEST: KARISMA X 125 T003

Comments  
 CDI STD BUSI DENSO STD PREMIUM

RPM	HP (HP) (N*M*M)	T
4250	4.8	7.75
4500	5.9	9.30
4558	6.0	9.36
4750	6.0	8.99
5000	6.4	8.99
5250	6.9	9.31
5500	6.9	8.92
5750	7.1	8.72
6000	7.3	8.64
6250	7.5	8.47
6461	7.6	8.38
6500	7.5	8.12
6750	7.4	7.71
7000	7.2	7.26
7250	7.1	6.88
7500	6.9	6.48
7750	6.5	5.94
8000	6.2	5.43
8250	5.8	4.98
8500	5.2	4.32
8750	4.7	3.76
9000	4.2	3.33
9250	3.6	2.76
9500	3.0	2.25

LOSSES: 0.0 HP  
 TOTAL ENGINE: 7.6HP  
 0.0N\*M\*M  
 9.36N\*M\*M





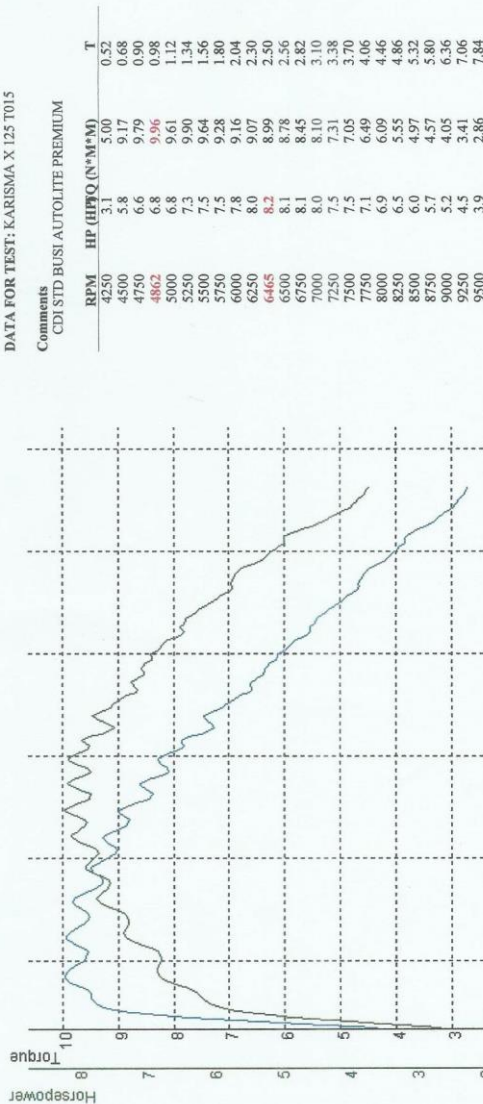
PT. RINGROAD SOLUSI, KEMASAN, SINGOSARAN,  
 BANGUNTAPAN, BANJUL, YOGYAKARTA.  
 Tlp : +62 274 62 363 03

SPORTDYN V3.3  
 DYNAMOMETER: MOTOTECHRPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T015 | 8.2 (8.2) / 6465 | 9.96 (9.96) / 4862 | 28.3 °C | 84 % | 1000.0 mbar | 99.7 | 12/5/2016 10:27:05 AM

DATA FOR TEST: KARISMA X 125 T015



Comments  
 CDI STD BUSI AUTOLITE PREMIUM

LOSSES: 0.0HP  
 TOTAL ENGINE: 8.2HP

0.0N\*M\*M  
 9.96N\*M\*M



PT. MINGROAD SOLATAN, KEMASARI, SINGOARAH,  
 KARASMA X 125 T019  
 Telp : +62 274 62 263 03

SPORTDINO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

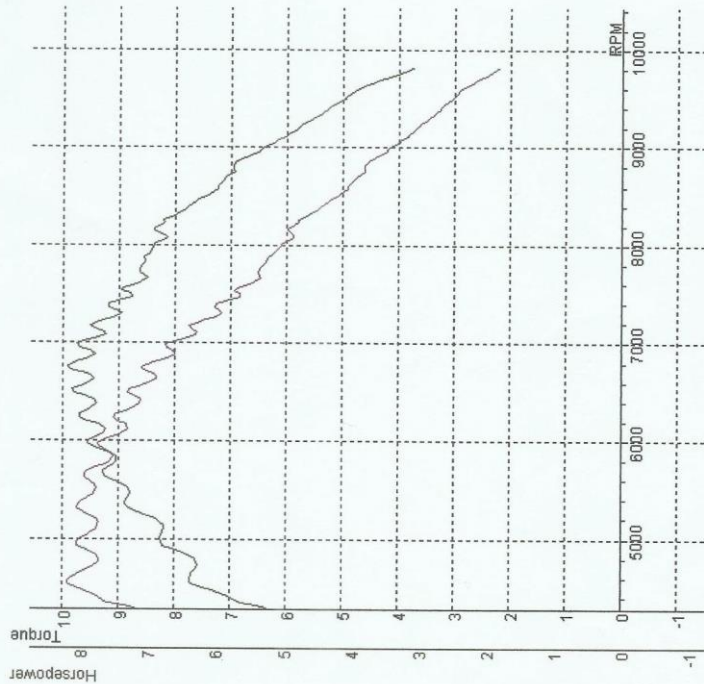
TEST NAME | MAX POWER. | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T019 | 8.2 (8.2) / 6748 | 9.91 (9.91) / 4349 | 28.3 °C | 84 % | 1000.0 mbar | 102.1 | 12/5/2016 10:28:29 AM

DATA FOR TEST: KARISMA X 125 T019

Comments  
 CDI STD BUSI AUTOLITE PREMIUM

RPM	HP (HPQ (N°M°M))	T
4250	5.4	8.88
4500	6.2	9.81
4750	6.3	9.91
5000	6.8	9.35
5250	7.1	9.62
5500	7.3	9.39
5750	7.5	9.22
6000	7.8	9.24
6250	8.0	9.08
6500	8.1	8.83
6748	8.2	8.58
6750	8.2	8.55
7000	7.9	8.01
7250	7.5	7.26
7500	7.3	6.84
7750	7.1	6.50
8000	6.9	6.10
8250	6.8	5.78
8500	6.2	5.10
8750	5.7	4.61
9000	5.3	4.18
9250	4.6	3.53
9500	4.1	3.02
9750	3.3	2.36

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.2HP





PT. KINERJA TEKNIK  
 Jl. Ringroad Selatan, Kemaman, Singaperbangsa, Kota Kinabalu, Sabah, Malaysia  
 Telp. +62 82 274 62 263 02

SPORTDYNO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

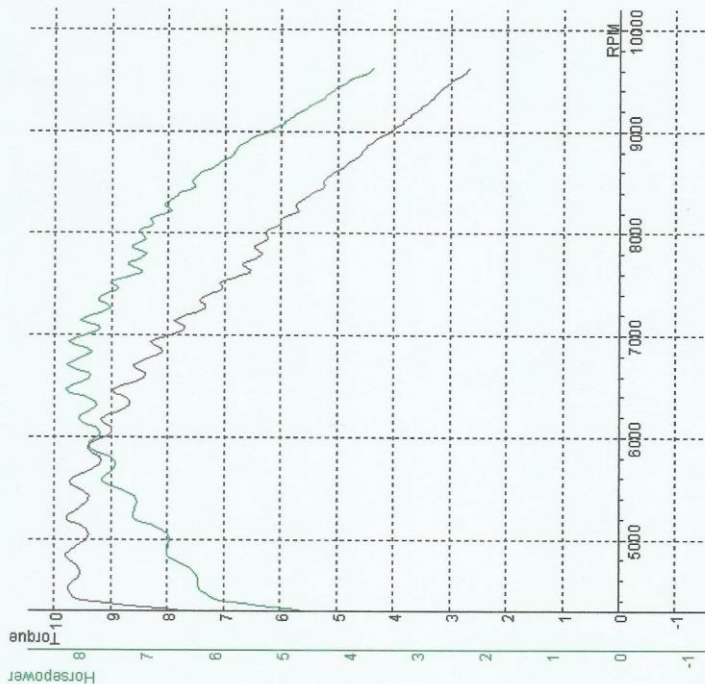
TEST NAME: KARISMA X 125 T022 | MAX POWER: 8.2 (8.2) / 6469 | Temp. °C: 28.3 °C | Humidity %: 77% | Pressure: 1000.0 mbar | KMH: 99.5 | Date/Time: 12/5/2016 10:37:48 AM

DATA FOR TEST: KARISMA X 125 T022

Comments: CDI STD BUSI NGK CPR 6 PREMIUM

RPM	HP (HPQ (N*M*M))	T
4250	5.0	8.28
4500	6.2	9.77
4750	6.5	9.66
4824	6.7	9.81
5000	6.6	9.41
5250	7.2	9.69
5500	7.5	9.63
5750	7.5	9.19
6000	7.7	9.10
6250	7.8	8.83
6469	8.2	8.97
6500	8.1	8.82
6750	8.1	8.46
7000	7.9	7.97
7250	7.5	7.33
7500	7.5	7.09
7750	7.1	6.43
8000	7.1	6.27
8250	6.7	5.71
8500	6.3	5.24
8750	5.7	4.64
9000	5.2	4.07
9250	4.6	3.50
9500	3.9	2.93
	0.0	0.0
	8.2	9.81

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.2 HP





PT. BANGSAKARSA  
 Jl. Hutan Kelapa, Kembangan, Sempayan,  
 Tangerang Selatan, Banten, 15224  
 Telp : +62 274 65 363 03

SPORTDINO V33  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

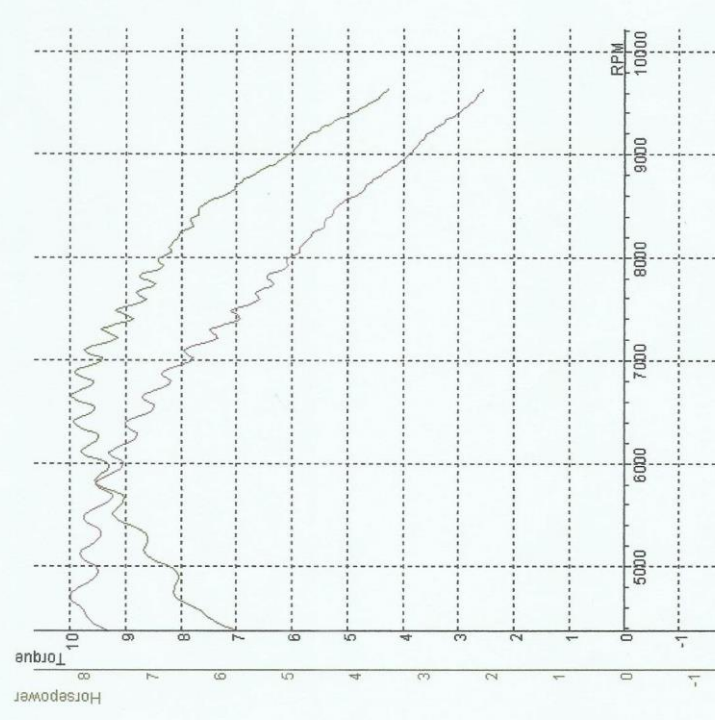
TEST NAME | MAX POWER | MAX TORQUE | Temp °C | Humidity % | Pressure | KM/H | Date/Time  
 KARISMA X 125 T021 | 8.2 (8.31) @6655 | 9.99 (10.09) @4699 | 28.3 °C | 77 % | 1000.0 mbar | 99.5 | 12/5/2016 10:37:28 AM

DATA FOR TEST: KARISMA X 125 T021

Comments  
 CDI STD BUSI NGK CPR 6 PREMIUM

RPM	HP (HEQ) (N*M*M)	T
4250	5.9	9.47
4500	6.2	9.70
4699	6.6	9.99
4750	6.6	9.92
5000	6.7	9.56
5250	7.0	9.48
5500	7.5	9.72
5750	7.7	9.50
6000	7.7	9.04
6250	7.8	8.78
6500	7.9	8.56
6655	8.2	8.69
6750	7.8	8.20
7000	7.7	7.78
7250	7.6	7.41
7500	7.5	7.03
7750	6.9	6.33
8000	6.8	6.04
8250	6.5	5.57
8500	6.2	5.16
8750	5.6	4.52
9000	4.9	3.87
9250	4.5	3.40
9500	3.7	2.76

LOSSES: 0.0N\*M\*M  
 TOTAL ENGINE: 8.2HP  
 9.99N\*M\*M





Dipercayakan Kepada Timbalan Menteri  
 Jl. Ringroad Selatan, Kemaman, Singosaren,  
 Banguntapan, Bantul, Yogyakarta.  
 Telp 1 02 274 05 305 05

SPORTIVO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Lead Cell Included.

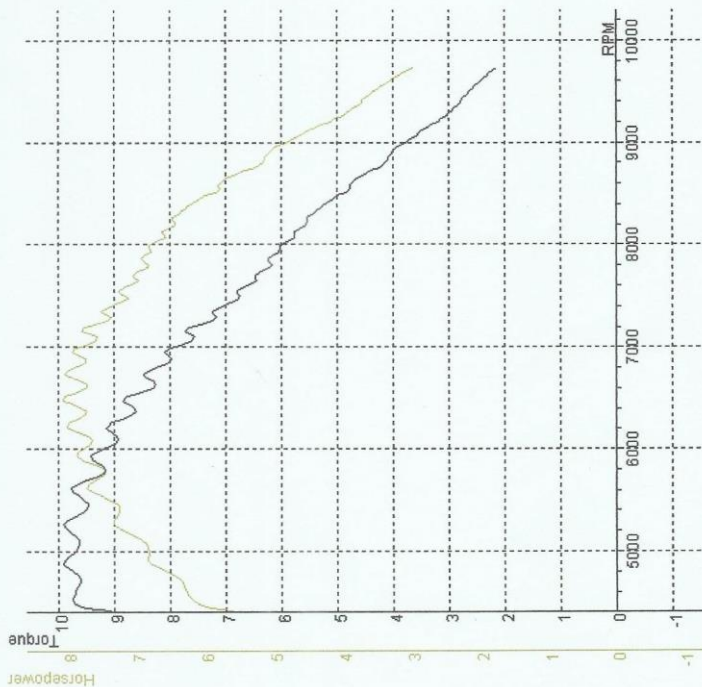
TEST NAME: KARISMA X 125 T020  
 MAX TORQUE: 9.91 (9.91) / 4887  
 MAX POWER: 8.1 (8.1) / 4887  
 Temp. °C: 28.3 °C  
 Humidity %: 77 %  
 Pressure: 1000.0 mbar  
 KM/H: 100.3  
 Date/Time: 12/5/2016 10:37:07 AM

DATA FOR TEST: KARISMA X 125 T020

Comments  
 CDI STD BUSI NGK CPR 6 PREMIUM

RPM	HP (HP)	HP (N*M*M)	T
4250	5.8	9.31	0.52
4500	6.2	9.73	0.60
4750	6.4	9.62	0.82
4887	6.8	9.91	0.94
5000	6.8	9.69	1.04
5250	7.3	9.89	1.28
5500	7.4	9.55	1.50
5750	7.5	9.18	1.74
6000	7.7	9.14	1.98
6250	8.0	9.03	2.22
6489	8.1	8.81	2.46
6500	8.0	8.75	2.48
6750	8.0	8.42	2.74
7000	7.8	7.90	3.02
7250	7.4	7.24	3.32
7500	7.2	6.78	3.64
7750	6.9	6.29	4.00
8000	6.8	6.00	4.40
8250	6.8	5.53	4.82
8500	3.8	4.83	5.28
8750	3.3	4.24	5.82
9000	4.8	3.78	6.42
9250	4.0	3.03	7.16
9500	3.5	2.63	7.98

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.1HP  
 0.0N\*M\*M  
 9.91N\*M\*M





Dipercayakan Kepada  
 Jl. Ringroad Selatan, Kemasan, Singosaren,  
 Banguntapan, Bantul, Yogyakarta.  
 Telp 1 02 274 05 305 05

SPORTIVO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Lead Cell Included.

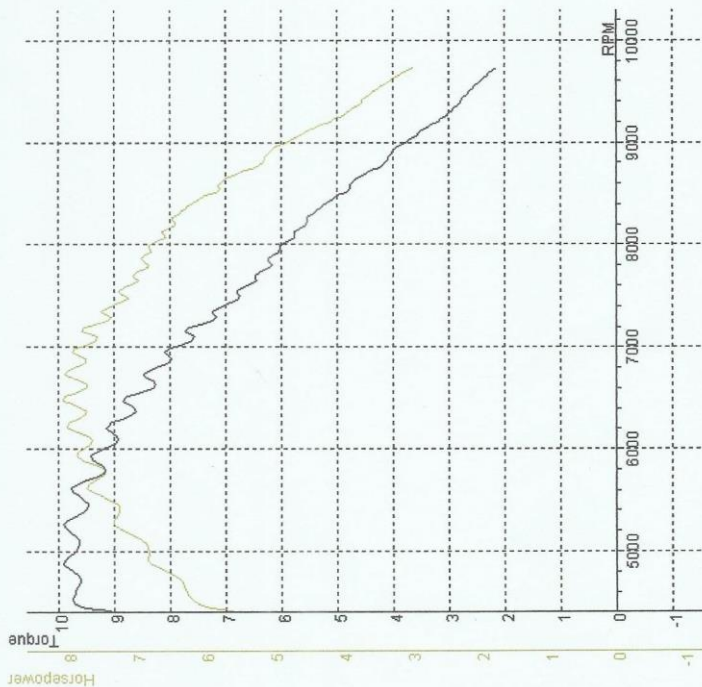
TEST NAME: KARISMA X 125 T020  
 MAX TORQUE: 9.91 (9.91) / 4887  
 MAX POWER: 8.1 (8.1) / 4887  
 Temp. °C: 28.3 °C  
 Humidity %: 77 %  
 Pressure: 1000.0 mbar  
 KM/H: 100.3  
 Date/Time: 12/5/2016 10:37:07 AM

DATA FOR TEST: KARISMA X 125 T020

Comments  
 CDI STD BUSI NGK CPR 6 PREMIUM

RPM	HP (HP)	HP (N*M*M)	T
4250	5.8	9.31	0.52
4500	6.2	9.73	0.60
4750	6.4	9.62	0.82
4887	6.8	9.91	0.94
5000	6.8	9.69	1.04
5250	7.3	9.89	1.28
5500	7.4	9.55	1.50
5750	7.5	9.18	1.74
6000	7.7	9.14	1.98
6250	8.0	9.03	2.22
6489	8.1	8.81	2.46
6500	8.0	8.75	2.48
6750	8.0	8.42	2.74
7000	7.8	7.90	3.02
7250	7.4	7.24	3.32
7500	7.2	6.78	3.64
7750	6.9	6.29	4.00
8000	6.8	6.00	4.40
8250	6.8	5.83	4.82
8500	6.8	4.83	5.28
8750	5.3	4.24	5.82
9000	4.8	3.78	6.42
9250	4.0	3.03	7.16
9500	3.5	2.63	7.98

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.1HP  
 0.0N\*M\*M  
 9.91N\*M\*M





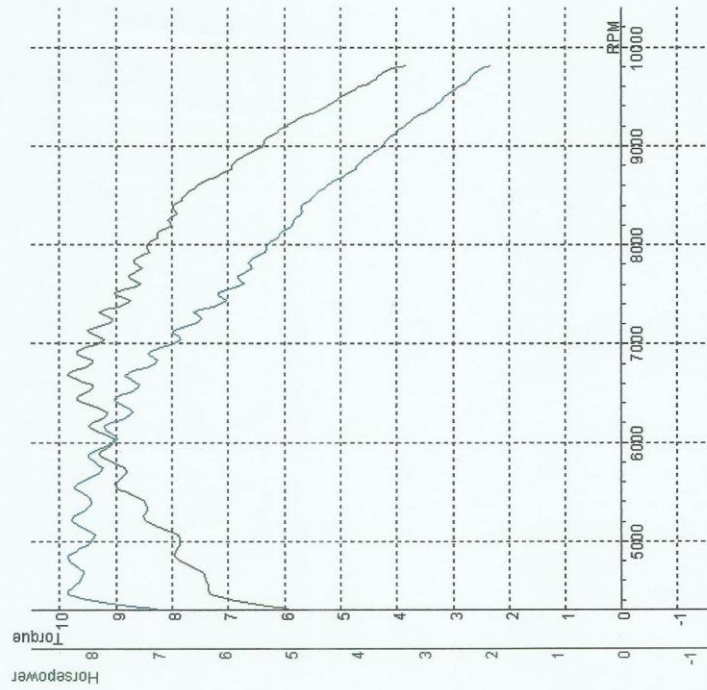
PT. RINGROAD SOLUSI  
 Jl. Ringroad Selatan, Kemaman, Singaperbangsa, Kota Kinabalu, Sabah, Malaysia  
 Telp: +62 274 65 263 03

SPORTDYN V33  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.46

Displacement Correction  
 Correction Factor: ISO 1385  
 NOTE: Load Cell Included.

TEST NAME: KARISMA X125 T039 | MAX POWER: 8.3 (8.3) / 6683 | Temp. °C: 30.2 °C | Humidity %: 66 % | Pressure: 1000.0 mbar | KMH: 102.0 | Date/Time: 12/5/2016 11:04:46 AM

DATA FOR TEST: KARISMA X 125 T039  
 Comments  
 CDI STD BUSI NGK CPR 9 PREMIUM



RPM	HP (HP)*M	T (N*M)*M
4250	5.3	8.73
4493	6.2	9.85
4500	6.2	9.82
4750	6.5	9.74
5000	6.6	9.38
5250	7.2	9.68
5500	7.5	9.65
5750	7.5	9.25
6000	7.6	8.97
6250	7.8	8.81
6500	8.0	8.75
6683	8.3	8.82
6750	8.1	8.46
7000	7.8	7.87
7250	7.6	7.46
7500	7.6	7.17
7750	7.2	6.56
8000	7.1	6.29
8250	6.8	5.84
8500	6.6	5.46
8750	5.9	4.73
9000	5.4	4.23
9250	4.9	3.75
9500	4.2	3.11
9750	3.5	2.56

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.3 HP  
 0.0 N\*M  
 9.85 N\*M





PT. KARISMA X 125 T036  
 Jl. Masjid Selatan, Kemasan, Singaperbangsa,  
 Kabupaten, Bekasi, Yogyakarta.  
 Telp : +62 274 65 365 03

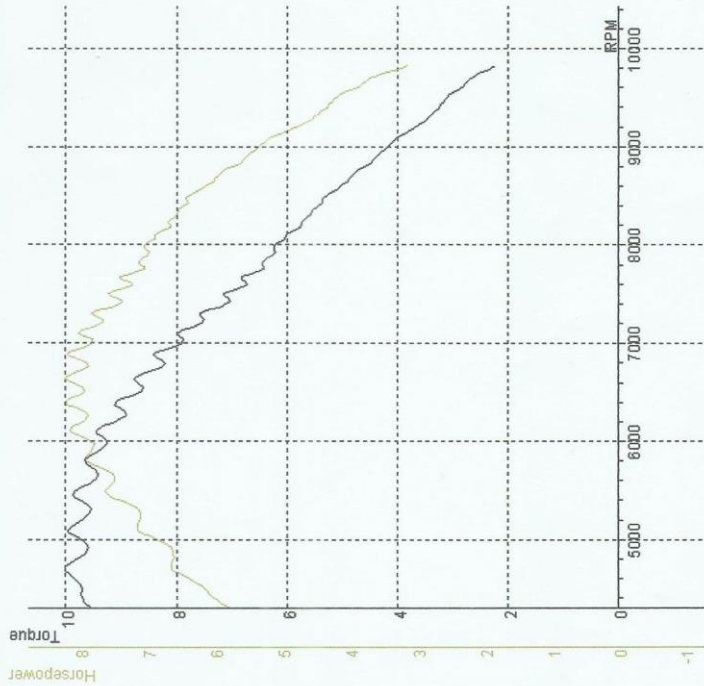
SPORTDYN0 V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T036 | 10.02 (10.02) / 4685 | 30.2 °C | 66 % | 1000.0 mbar | 101.4 | 12/5/2016 11:03:42 AM

DATA FOR TEST: KARISMA X 125 T036

Comments  
CDI STD BUSI NGK CPR 9 PREMIUM



RPM	HP (HP) (N*M*M)	T
4000	5.8	9.62
4250	5.9	9.65
4500	6.1	9.70
4685	6.6	10.02
4750	6.6	9.92
5000	6.9	9.81
5250	7.1	9.56
5500	7.6	9.78
5750	7.8	9.58
6000	7.8	9.27
6250	7.9	8.91
6500	7.9	8.63
6638	8.2	8.76
6750	7.9	8.25
7000	7.8	7.86
7250	7.7	7.52
7500	7.6	7.13
7750	7.0	6.42
8000	7.0	6.20
8250	6.7	5.73
8500	6.3	5.24
8750	5.8	4.70
9000	5.3	4.19
9250	4.6	3.52
9500	4.2	3.12
9750	3.4	2.47

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.2HP  
 0.0N\*M\*M  
 10.02N\*M\*M



PT. BANGSAKARAYA MOTOR ENGINEERING  
 Jl. Ringroad Selatan, Kemaman, Singaperbangsa, Bekasi, Yogyakarta.  
 Telp. + 62 274 62 369 03

SPORTDYNO Y3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

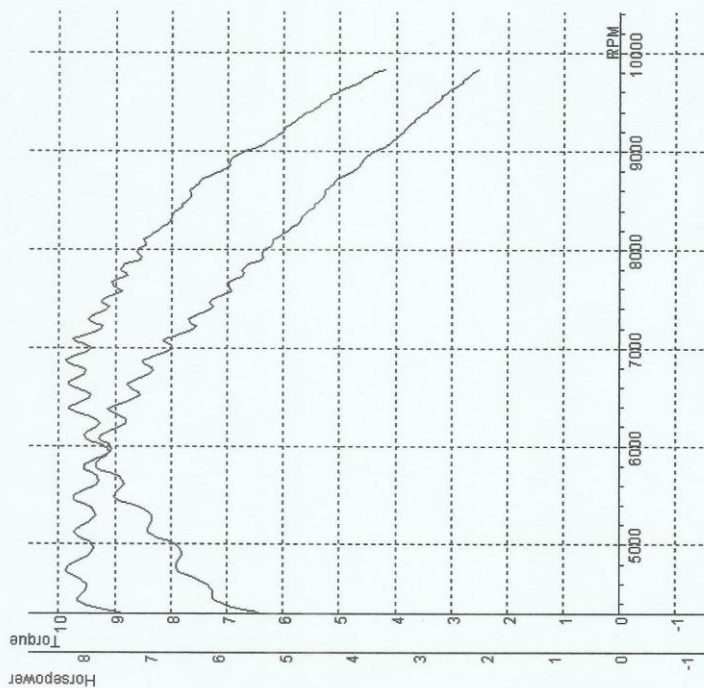
TEST NAME: KARISMA X 125 T040 | MAX TORQUE: 9.88 (9.88) / 4735 | Temp. °C: 30.2 °C | Humidity %: 66 % | Pressure: 1000.0 mbar | KMH: 102.2 | Date/Time: 12/25/2016 11:05:09 AM

DATA FOR TEST: KARISMA X 125 T040

Comments: CDI STD BUSI NGK CPR 9 PREMIUM

RPM	HP (HP)	HP (N*M/M)	T
4250	5.6	9.18	0.52
4500	6.1	9.53	0.70
4735	6.6	9.88	0.90
4750	6.6	9.85	0.92
5000	6.7	9.45	1.16
5250	7.0	9.41	1.38
5500	7.5	9.68	1.62
5750	7.7	9.54	1.86
6000	7.7	9.11	2.10
6250	7.8	8.82	2.36
6500	7.9	8.56	2.60
6750	8.0	8.32	2.88
7000	8.2	8.11	3.14
7250	7.9	7.98	3.44
7500	7.6	7.21	3.76
7750	7.5	6.70	4.08
8000	7.2	6.31	4.46
8250	6.7	5.76	4.86
8500	6.4	5.33	5.30
8750	6.1	4.91	5.74
9000	5.5	4.33	6.28
9250	4.9	3.76	6.90
9500	4.4	3.27	7.60
9750	3.7	2.70	8.48

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.2 HP  
 0.0N\*M/M  
 9.88N\*M/M





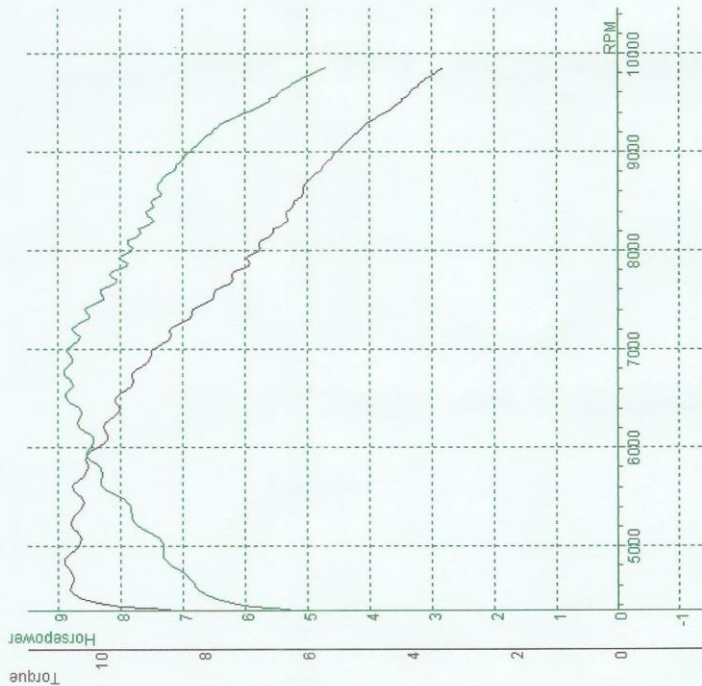
PT. Center of Mototechnology Indonesia  
 Jl. Ringroad Selatan, Kemassan, Singaperbangsa, Mangrove, Bantur, Yogyakarta.  
 Telp : +62 274 65 365 03

SPORTDYN0 Y3.3  
 DYNAMOMETER: MOTOTECH RFD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH  
 KARISMA X 125 T022 | 8.9 (8.9) / 6771 | 10.65 (10.65) / 4843 | 30.1 °C | 64 % | 1000.0 mbar | 104.9

DATE FOR TEST: KARISMA X 125 T022



Comments  
 CDI STD / BUSI NGK CPR6GP / PREMIUM

RPM	HP (HP) (N*M*M)	T
4250	5.6	9.12
4500	6.6	10.47
4750	7.1	10.55
4843	7.3	10.65
5000	7.3	10.38
5250	7.8	10.52
5500	8.1	10.38
5750	8.3	10.21
6000	8.5	9.97
6250	8.7	9.86
6500	8.9	9.65
6750	8.9	9.33
6771	8.9	9.31
7000	8.8	8.90
7250	8.6	8.41
7500	8.3	7.80
7750	8.2	7.44
8000	7.8	6.87
8250	7.6	6.48
8500	7.5	6.23
8750	7.3	5.85
9000	6.9	5.41
9250	6.4	4.90
9500	5.6	4.18
9750	5.0	3.63

LOSSES: 0.0 HP  
 TOTAL ENGINE: 8.9 HP  
 0.0 N\*M\*M  
 10.65 N\*M\*M



Jl. Ringroad Selatan, Kemaman, Singaperbangsa, Bantui, Yogyakarta.  
 Telp. +62 274 65 263 03

SPORTDYN V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

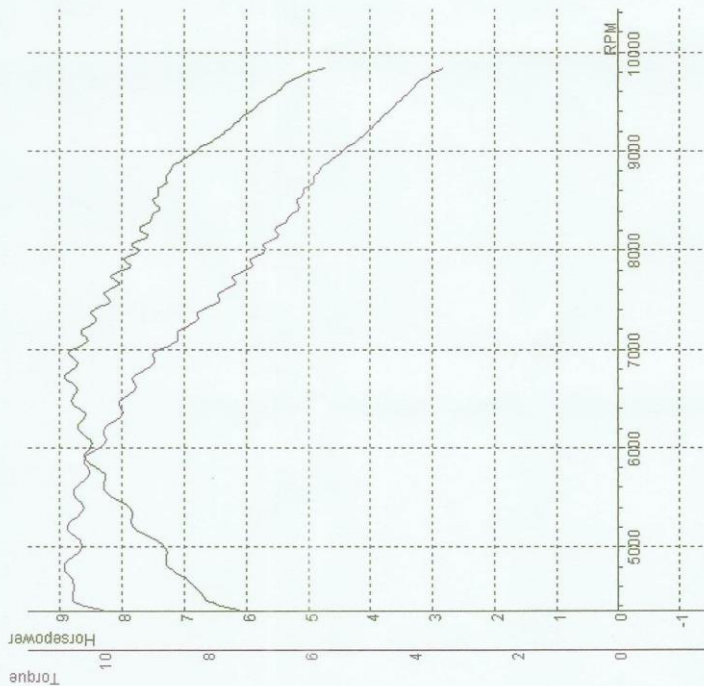
TEST NAME | MAX TORQUE | MAX POWER | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T021 | 10.25 (10.75) / 4784 | 8.9 (8.9) / 6724 | 30.1 °C | 64 % | 1000.0 mbar | 104.7 | 12/6/2016 10:15:37 AM

DATA FOR TEST: KARISMA X 125 T021

Comments  
 CDI STD / BUSI NGK CPR6GP / PREMIUM

RPM	HP (HPQ (N*M*M))	T
4250	6.3	10.22
4500	6.7	10.58
4750	7.2	10.74
4784	7.2	10.75
5000	7.3	10.41
5250	7.9	10.61
5500	8.2	10.55
5750	8.3	10.26
6000	8.5	10.04
6250	8.7	9.80
6500	8.8	9.59
6724	8.9	9.41
6750	8.9	9.29
7000	8.8	8.85
7250	8.5	8.25
7500	8.2	7.74
7750	8.1	7.42
8000	7.7	6.85
8250	7.6	6.52
8500	7.3	6.23
8750	6.8	5.87
9000	6.2	5.35
9250	6.2	4.74
9500	5.7	4.25
9750	5.1	3.70

LOSSES: 0.0N\*M\*M  
 TOTAL ENGINE: 8.9HP 10.75N\*M\*M



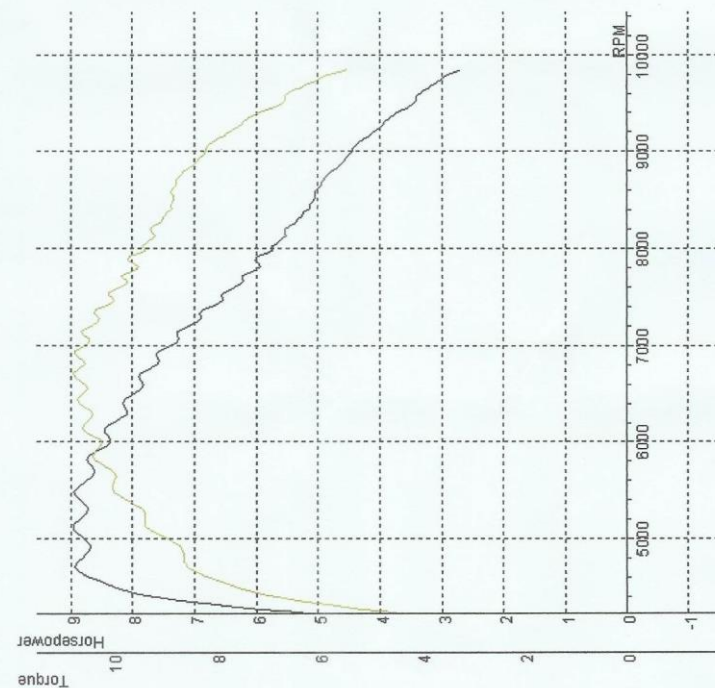


PT. RICHIESS GADAMA, KALIBANTEN, 85111  
 Mangrovegarden, Bantulu, Yogyakarta.  
 Telp : +62 274 64 363 03

SPORTIVO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME: KARISMA X 125 T020  
 MAX TORQUE: 10.78 (10.78) / 5111  
 MAX POWER: 30.1 °C  
 Humidity %: 64%  
 Pressure: 1000.0 mbar  
 KM/H: 104.7  
 Date/Time: 12/6/2016 10:15:15 AM



DATA FOR TEST: KARISMA X 125 T020

Comments  
 CDI STD / BUSINGKCPRG2P / PREMIUM

RPM	HP (HP@N*M*M)	T (N*M*M)
4250	4.3	7.14
4500	6.4	10.06
4750	7.2	10.67
5000	7.5	10.61
5111	7.8	10.78
5250	7.8	10.55
5500	8.3	10.75
5750	8.4	10.42
6000	8.5	10.05
6250	8.6	9.79
6500	8.8	9.56
6711	9.0	9.46
6750	8.8	9.25
7000	8.7	8.81
7250	8.5	8.31
7500	8.4	7.89
7750	8.0	7.28
8000	7.8	6.90
8250	7.6	6.46
8500	7.3	6.08
8750	7.2	5.82
9000	6.8	5.34
9250	6.3	4.79
9500	5.5	4.11
9750	4.9	3.58

LOSSES: 0.0 HP  
 TOTAL ENGINE: 9.0 HP  
 0.0 N\*M\*M  
 10.78 N\*M\*M



PT. RICEKONG SAFETY, KARISMA, BANGKALAN, SURABAYA  
 Jl. RICEKONG SAFETY, KARISMA, BANGKALAN, SURABAYA  
 Telp : +62 274 64 363 03

SPORTIVO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

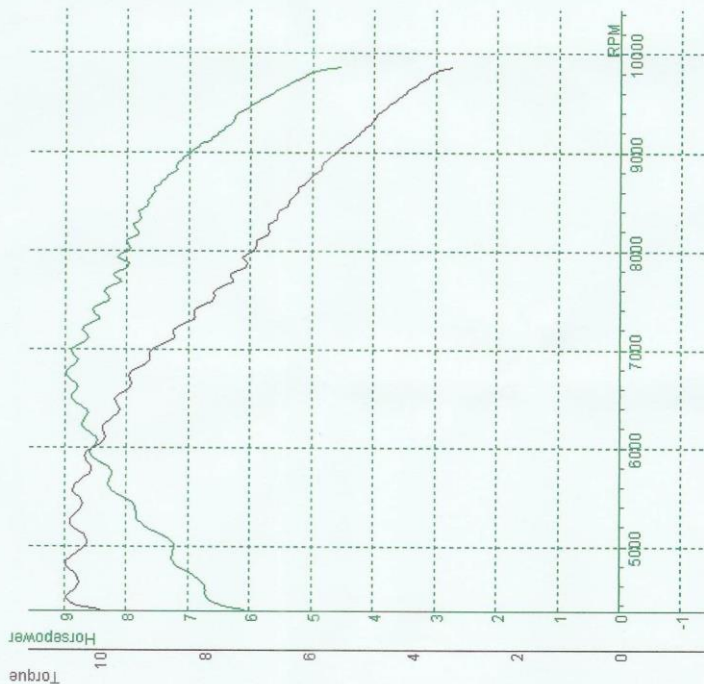
TEST NAME | MAX POWER | MAX TORQUE | Temp °C | Humidity % | Pressure | KM/H | Date/Time  
 KARISMA X 125 T030 | 9.0 (9.0) / 6744 | 10.64 (10.64) / 4818 | 30.8 °C | 62.2 % | 1000.0 mbar | 104.8 | 12/26/2016 10:31:15 AM

DATA FOR TEST: KARISMA X 125 T030

Comments  
 CDI STD / BUSI TDR065 / PREMIUM

RPM	HP (HPQ (N*M*MM))	T
4250	6.3	10.24
4500	6.7	10.55
4750	7.0	10.53
4818	7.2	10.64
5000	7.2	10.24
5250	7.8	10.56
5500	8.1	10.44
5750	8.2	10.15
6000	8.5	10.06
6250	8.7	9.85
6500	8.9	9.68
6744	9.0	9.42
6750	9.0	9.39
7000	8.9	8.94
7250	8.5	8.33
7500	8.3	7.80
7750	8.2	7.48
8000	7.9	7.01
8250	7.9	6.76
8500	7.7	6.36
8750	7.3	5.90
9000	7.0	5.45
9250	6.4	4.89
9500	5.9	4.38
9750	5.1	3.71

LOSSES: 0.0 HP  
 TOTAL ENGINE: 9.0 HP  
 0.0 N\*M\*MM  
 10.64 N\*M\*MM





PT. RINGKAS GELAM, KEMASAN, SINGOSARAN,  
 BANGUNTAPAN, BANTUL, YOGYAKARTA.  
 Telp : +62 274 65 363 03

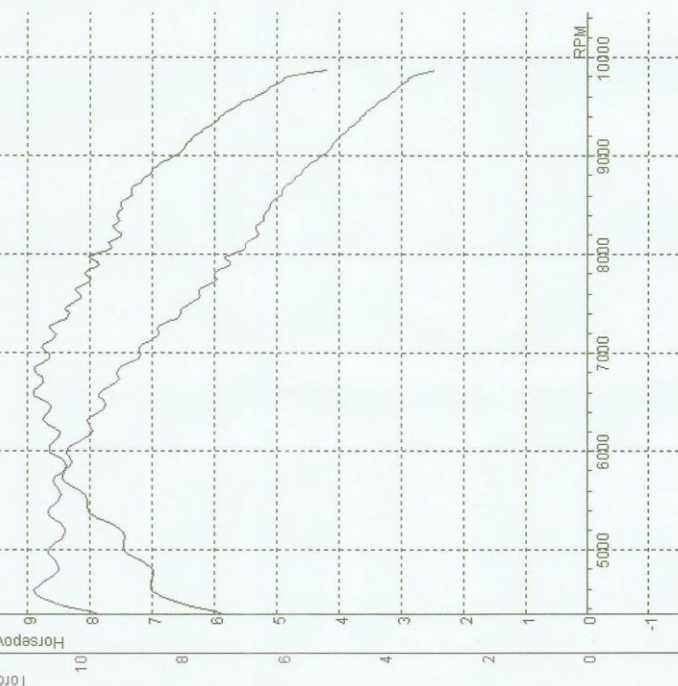
SPORTDYNO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME: KARISMA X 125 T029  
 MAX POWER: 8.9 (8.9) / 6601  
 MAX TORQUE: 10.87 (10.87) / 6582  
 Temp °C: 30.8 °C  
 Humidity %: 62 %  
 Pressure: 1000.0 mbar  
 KMH: 105.0  
 Date/Time: 12/6/2016 10:30:53 AM

DATA FOR TEST: KARISMA X 125 T029

RPM	HP (HPQ) (N*M*M)	T
4250	6.1	9.86
4500	6.8	10.74
4750	7.0	10.84
5000	7.4	10.57
5250	7.6	10.32
5500	8.0	10.38
5750	8.4	10.37
6000	8.7	10.22
6250	8.6	9.77
6500	8.7	9.48
6601	8.9	9.56
6750	8.8	9.19
7000	8.7	8.79
7250	8.6	8.42
7500	8.2	7.76
7750	8.0	7.28
8000	7.8	6.92
8250	7.6	6.50
8500	7.5	6.22
8750	7.1	5.75
9000	6.6	5.19
9250	6.2	4.70
9500	5.6	4.18
9750	4.9	3.57



Comments: CDI STD / BUSI TDR065 / PREMIUM  
 LOSSES: 0.0 N\*M\*M  
 TOTAL ENGINE: 8.9 HP  
 10.87 N\*M\*M



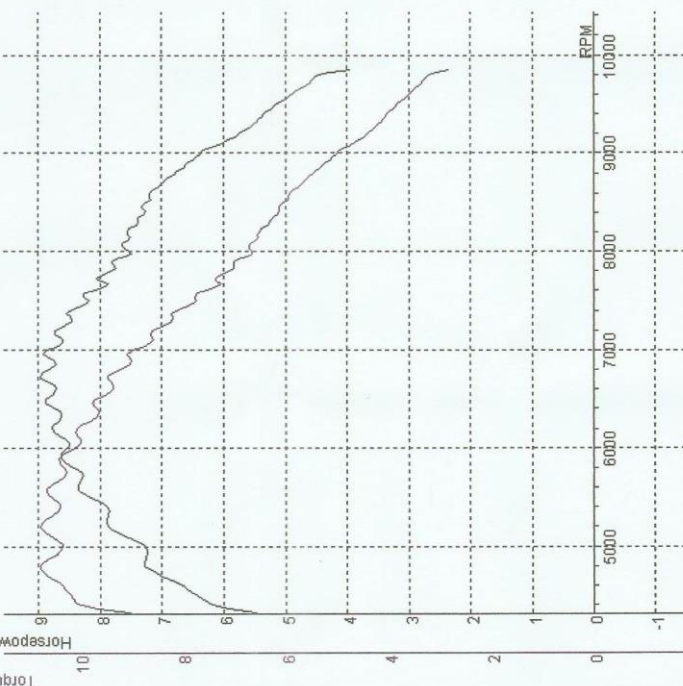
Unit Center of Measurement Instrument  
 Jl. Hutan Kelapa Selatan, Kawasan Srigosarean,  
 Mangrove Estate, Yogyakarta.  
 Telp : +62 274 65 363 03

SPORTDINO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER. | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH  
 KARISMA X 125 T027 | 9.0 (9.0) / 6731 | 10.77 (10.77) / 4789 | 30.8 °C | 62 % | 1000.0 mbar | 104.7

DATE FOR TEST: KARISMA X 125 T027



Comments  
 CDI STD / BUSI TDR065 / PREMIUM

RPM	HP (HPQ (N°M°M))	T
4250	5.7	9.37
4500	6.5	10.20
4750	7.2	10.73
4789	7.3	10.77
5000	7.3	10.34
5250	7.9	10.65
5500	8.2	10.59
5750	8.3	10.25
6000	8.5	10.03
6250	8.7	9.83
6500	8.9	9.64
6731	9.0	9.44
7000	9.0	9.40
7250	8.8	8.88
7500	8.5	8.28
7750	8.2	7.72
8000	8.0	7.29
8250	7.5	6.64
8500	7.4	6.35
8750	7.2	6.00
9000	6.9	5.53
9250	6.4	5.00
9500	5.6	4.28
9750	5.1	3.81
9750	4.5	3.29
		7.84

LOSSES: 0.0 HP  
 TOTAL ENGINE: 9.0HP  
 0.0N°M°M  
 10.77N°M°M





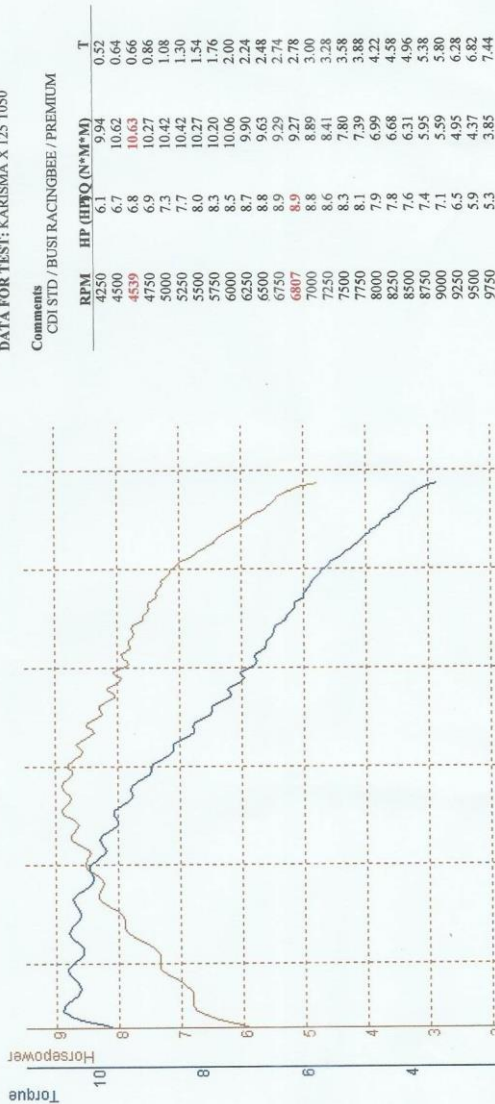
Diponegoro  
 Jl. Ringroad Selatan, Karangas, Singosari,  
 Banguntapan, Bantul, Yogyakarta.  
 Telp : +62 274 65 363 03

SPORTVNO V3.3  
 DYNAMOMETER: MOTO TECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME: KARISMA X 125 T050  
 MAX POWER: 8.9 (8.9) / 6807  
 MAX TORQUE: 10.63 (10.63) / 4539  
 Temp. °C: 31.8 °C  
 Humidity %: 58 %  
 Pressure: 1000.0 mbar  
 KMH: 104.9  
 Date/Time: 12/6/2016 10:57:36 AM

DATA FOR TEST: KARISMA X 125 T050



Comments  
 CDI STD / BUSIRACINGBEE / PREMIUM  
 LOSSES: 0.0N\*M/M  
 TOTAL ENGINE: 8.9HP  
 0.0N\*M/M  
 10.63N\*M/M

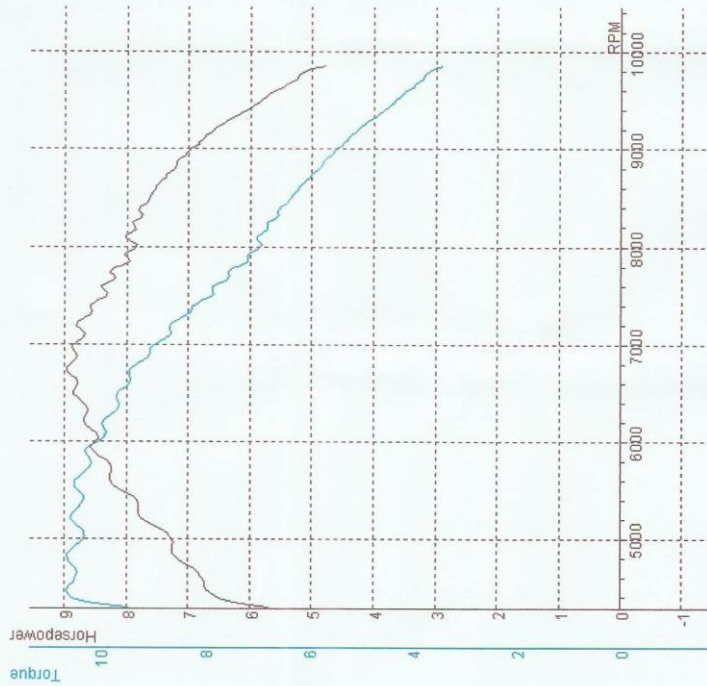


Jl. Ringroad Selatan, Kemassan, Singaperbangsa, Jakarta  
 No. 100  
 Telp : +62 272 65 363 03

SPORTDYNO V3.3  
 DYNAMOMETER: MOTOTECH RFD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T049 | 9.0 (9.0) / 6736 | 10.64 (10.64) / 4471 | 31.8 °C | 58 % | 1000.0 mbar | 104.9 | 12/6/2016 10:57:14 AM



DATA FOR TEST: KARISMA X 125 T049

Comments  
 CDI STD / BUSI RACINGBEE / PREMIUM

RPM	HP (HPQ (N*M*M))	T
4250	5.9	0.80
4471	6.7	10.64
4800	7.1	10.59
5000	7.3	10.30
5250	7.8	10.35
5500	8.1	10.45
5750	8.3	10.17
6000	8.5	10.04
6250	8.7	9.83
6500	8.9	9.63
6736	9.0	9.43
7000	9.0	9.40
7250	8.8	8.87
7500	8.7	8.48
7750	8.3	7.83
8000	8.2	7.51
8250	7.8	6.91
8500	7.6	6.33
8750	7.3	5.89
9000	6.9	5.44
9250	6.4	4.92
9500	5.8	4.32
9750	5.2	3.78

LOSSES: 0.0HP  
 TOTAL ENGINE: 9.0HP  
 0.0N\*M\*M  
 10.64N\*M\*M



PT. RINGROAD SOLARIS, KARASMA, SINGOSARAN,  
Jl. Ringroad Selatan, Karasman, Singosaran,  
Kab. Karangasem, Bali, Indonesia  
Telp : +62 374 95 363 03

SPORTIVO V3.3  
DYNAMOMETER: MOTOTECH RPD  
ROLLERINERTIA: 1.46

Displacement Correction  
Correction Factor: ISO 1585  
NOTE: Load Cell Included.

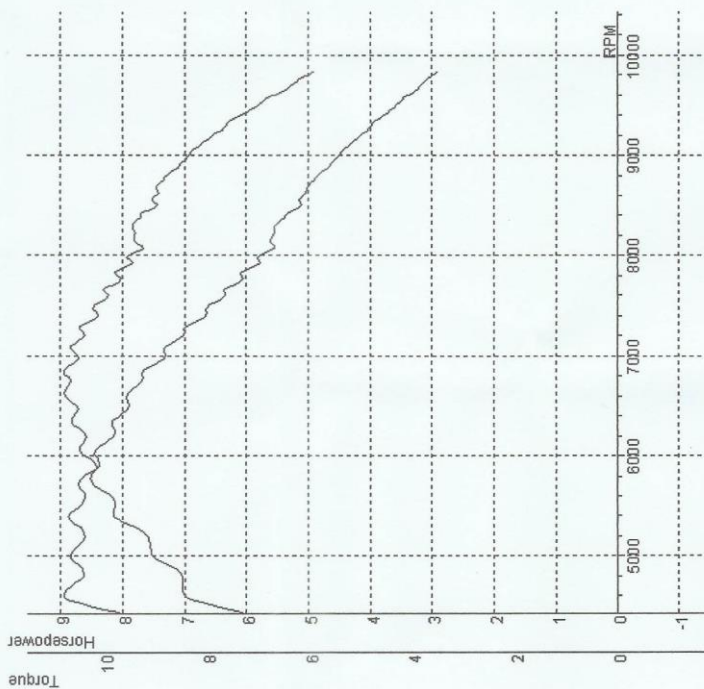
TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
KARISMA X 125 T048 | 8.9 (8.9)/6831 | 10.81 (10.81)/4619 | 31.8 °C | 58 % | 1000.0 mbar | 104.8 | 12/6/2016 10:56:51 AM

DATA FOR TEST: KARISMA X 125 T048

Comments  
CDLSTD / BUSI RACINGBEE / PREMIUM

RPM	HP (HP/Q)	(N*M/M)	T
4250	6.3	10.01	0.52
4500	6.6	10.41	0.56
4619	7.0	10.81	0.66
4750	7.0	10.47	0.80
5000	7.5	10.66	1.02
5250	7.8	10.48	1.24
5500	8.1	10.49	1.44
5750	8.5	10.48	1.68
6000	8.6	10.19	1.90
6250	8.7	9.81	2.14
6500	8.7	9.53	2.38
6750	8.8	9.26	2.64
6831	8.9	9.27	2.72
7000	8.7	8.82	2.90
7250	8.7	8.46	3.18
7500	8.4	7.95	3.48
7750	8.0	7.30	3.80
8000	7.9	6.97	4.14
8250	7.8	6.69	4.48
8500	7.4	6.17	4.86
8750	7.3	5.90	5.28
9000	6.9	5.44	5.72
9250	6.4	4.88	6.20
9500	5.8	4.31	6.76
9750	5.1	3.71	7.42

LOSSES: 0.0 HP  
TOTAL ENGINE: 8.9 HP  
0.0 N\*M/M  
10.8 N\*M/M





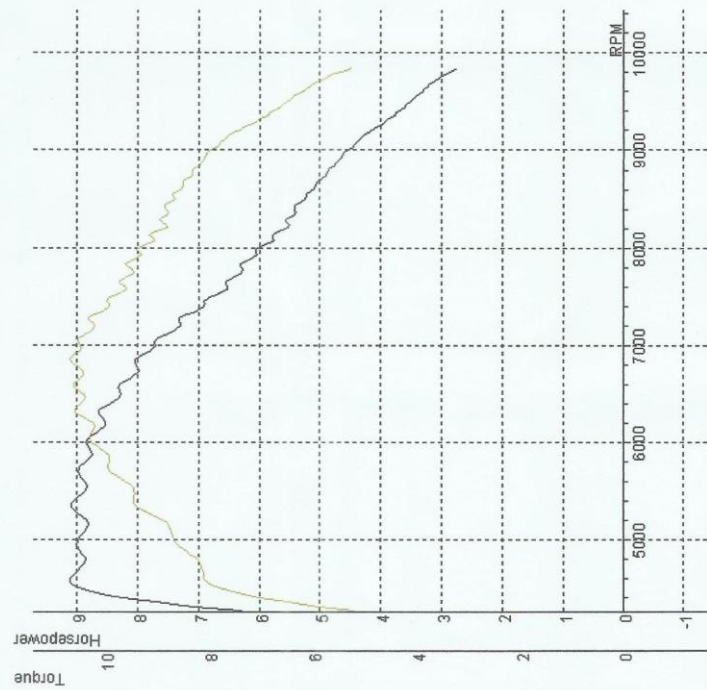
Dua Citra di Melayang dalam 10 Suplai  
 Jl. Hutanwid Salatan, Kemaman, Singapore,  
 Banguntapan, Bantul, Yogyakarta.  
 Tlp : +62 274 65 363 03

SPORTDYN0 V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T004 | 10.68 (10.68) / 4562 | 1000.0 mbar | 28.4 °C | 79 % | 104.7 | 12/16/2016 9:52:27 AM

DATA FOR TEST: KARISMA X 125 T004



Comments:  
 CDI STD / BUSI IRIIDIUM / PREMIUM

RPM	HP (HP)	(N*M/M)	T
4250	4.7	7.84	0.52
4500	6.7	10.58	0.72
4750	6.9	10.68	0.76
5000	7.0	10.39	0.94
5250	7.4	10.50	1.16
5500	7.8	10.51	1.38
5750	8.1	10.38	1.60
6000	8.5	10.46	1.82
6250	8.8	10.36	2.06
6500	8.9	10.07	2.28
6750	9.0	9.70	2.52
7000	9.1	9.43	2.86
7250	8.8	8.57	3.30
7500	8.4	7.93	3.60
7750	8.1	7.35	3.92
8000	8.0	7.02	4.26
8250	7.6	6.47	4.60
8500	7.4	6.14	4.98
8750	7.1	5.72	5.42
9000	6.8	5.32	5.88
9250	6.2	4.69	6.36
9500	5.5	4.12	6.94
9750	4.9	3.56	7.58

LOSSES: 0.0 HP  
 TOTAL ENGINE: 9.1 HP  
 0.0N\*M\*M  
 10.68N\*M\*M



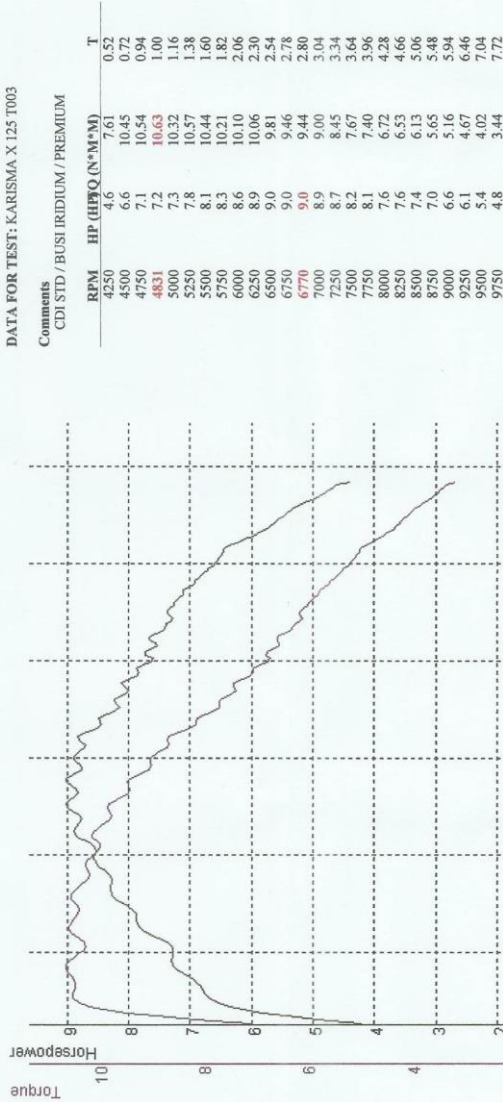
Diponegoro  
 Jl. Ringroad Selatan, Kemasan, Singosari,  
 Banguntapan, Bantul, Yogyakarta.  
 Tlp : +62 274 65 363 03

SPORTDYNO V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME: KARISMA X 125 T003  
 MAX POWER: 9.0 (9.0) / 6770  
 MAX TORQUE: 10.63 (10.63) / 4831  
 Temp. °C: 28.4 °C  
 Humidity %: 79 %  
 Pressure: 1000.0 mbar  
 KMH: 104.7  
 Date/Time: 12/6/2016 9:52:06 AM

DATA FOR TEST: KARISMA X 125 T003



Comments  
 CDI STD / BUSI IRIIDIUM / PREMIUM

LOSSES: 0.0 HP  
 TOTAL ENGINE: 9.0HP

0.0N\*M\*M  
 10.63N\*M\*M



Dipusat Riset dan Pengembangan  
 Jl. Ringroad Selatan, Kemaman, Singaperbangsa, Kota Pekanbaru, Riau 28112  
 Telp : +62 774 62 863 93

SPORTDYN0 V3.3  
 DYNAMOMETER: MOTOTECH RPD  
 ROLLER INERTIA: 1.446

Displacement Correction  
 Correction Factor: ISO 1585  
 NOTE: Load Cell Included.

TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure | KMH | Date/Time  
 KARISMA X 125 T002 | 9.11 (9.11) / 6475 | 10.85 (10.85) / 4765 | 28.4 °C | 79 % | 1000.0 mbar | 104.7 | 12/6/2016 9:51:44 AM

DATA FOR TEST: KARISMA X 125 T002

RPM	HP (HPFQ (N*M*M))	T
4250	6.0	9.76
4500	6.6	10.40
4750	7.3	10.85
4765	7.3	10.85
5000	7.4	10.49
5250	7.9	10.69
5500	8.3	10.69
5750	8.4	10.37
6000	8.6	10.20
6250	8.9	10.08
6475	9.1	9.96
6500	9.0	9.83
6750	9.1	9.50
7000	8.9	9.03
7250	8.6	8.38
7500	8.2	7.75
7750	8.0	7.30
8000	7.7	6.83
8250	7.6	6.52
8500	7.4	6.11
8750	7.0	5.61
9000	6.3	4.90
9250	5.7	4.31
9500	5.0	3.69
9750	4.3	3.13

Comments  
 CDI STD / BUSI IRIIDIUM / PREMIUM

LOSSES: 0.0 HP  
 TOTAL ENGINE: 9.1 HP  
 0.0N\*M\*M  
 10.85N\*M\*M

