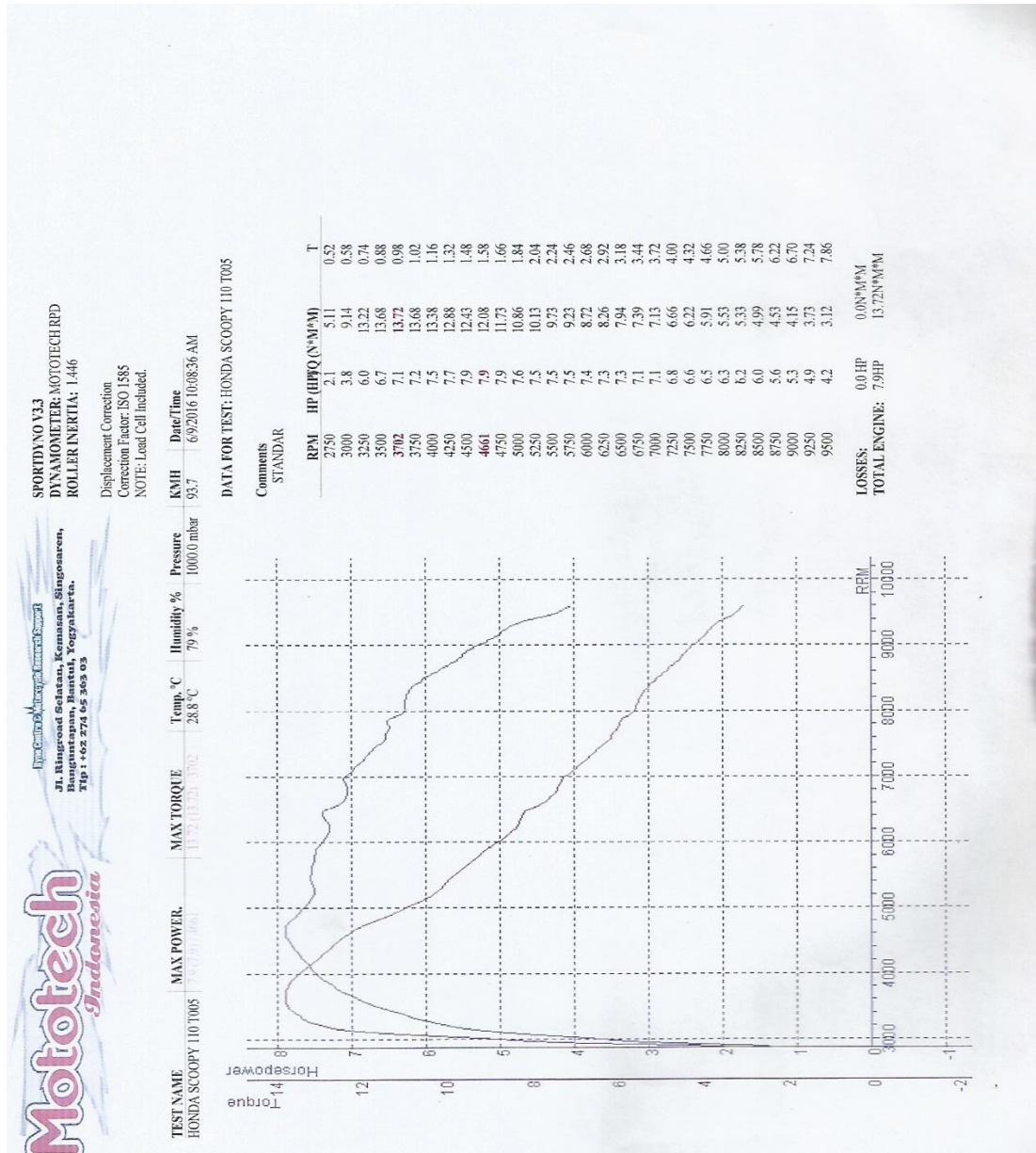


LAMPIRAN

Lampiran 1

Hasil Pengujian Torsi dan Daya

A. Motor Standar Menggunakan Roller standar (12 gr) dengan Pegas CVT standar (800 rpm)





Jl. Ringroad Selatan, Kamasan, Singosaren,
 Kabupaten Yogyakarta
 Telp : +62 274 65 363 63

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

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

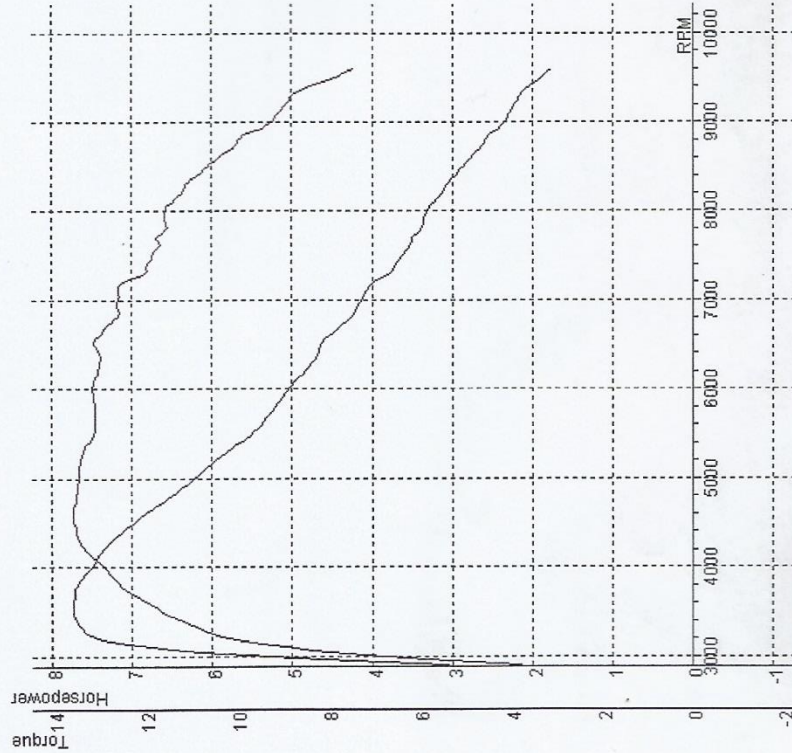
TEST NAME: HONDA SCOOBY 110 T008
 MAX POWER: 7.7 (7.7) / 4572
 MAX TORQUE: 13.56 (13.56) / 3510
 Temp. °C: 28.8 °C
 Humidity %: 79 %
 Pressure: 1000.0 mbar
 KMH: 95.4
 Date/Time: 6/9/2016 10:10:15 AM

DATA FOR TEST: HONDA SCOOBY 110 T008

RPM	HP (HP)(N*M/M)	T
2750	2.7	6.78
3000	4.3	10.27
3250	6.0	13.29
3500	6.6	13.56
3510	6.6	13.56
3750	7.1	13.51
4000	7.4	13.12
4250	7.6	12.77
4500	7.7	12.19
4572	7.7	12.06
4750	7.7	11.47
5000	7.6	10.85
5250	7.6	10.31
5500	7.5	9.61
5750	7.5	9.21
6000	7.5	8.82
6250	7.4	8.37
6500	7.5	8.12
6750	7.2	7.58
7000	7.2	7.24
7250	6.9	6.73
7500	6.7	6.34
7750	6.6	6.04
8000	6.6	5.79
8250	6.3	5.42
8500	6.0	5.01
8750	5.7	4.57
9000	5.2	4.10
9250	5.0	3.82
9500	4.5	3.32

Comments
STANDAR

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.7 HP
 0.0 N*M*M
 13.56 N*M*M





Jl. Rincasd Solatan, Kemasan, Sragen,
 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.

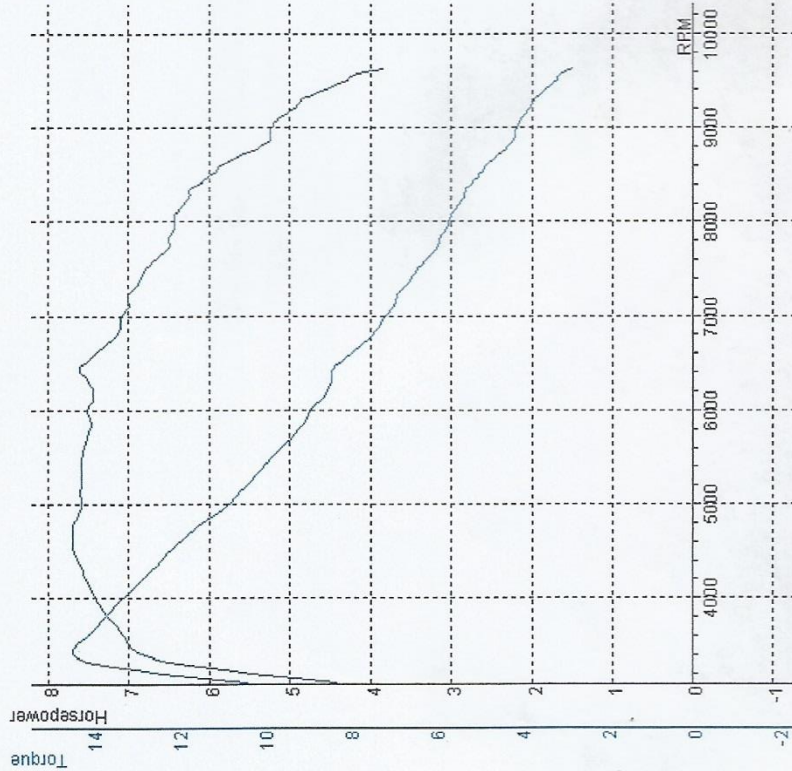
TEST NAME: HONDA SCOOOPY 110 T007
 MAX TORQUE: 14.44 (14.44) / 3443
 Temp. °C: 28.8 °C
 Humidity %: 79 %
 Pressure: 1000.0 mbar
 KMH: 93.7
 Date/Time: 6/9/2016 10:09:45 AM

DATA FOR TEST: HONDA SCOOOPY 110 T007

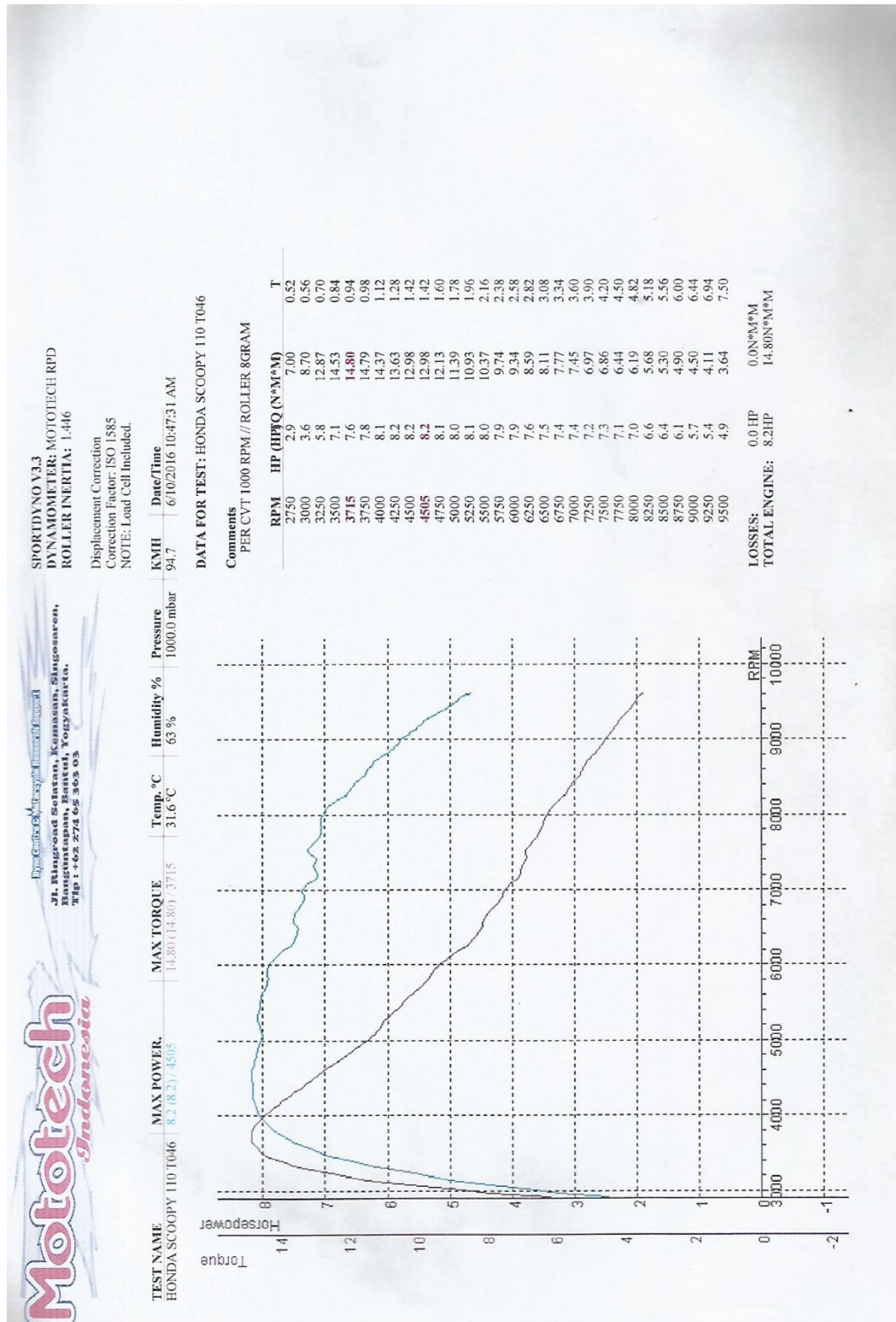
RPM	HP (HP) (N*M*MM)	T
2750	4.8	11.04
3000	5.1	11.69
3250	6.1	13.49
3443	6.9	14.44
3500	7.0	14.31
3750	7.2	13.77
4000	7.4	13.21
4250	7.6	12.66
4500	7.7	12.15
4742	7.7	11.57
4750	7.7	11.50
5000	7.6	10.77
5250	7.6	10.24
5500	7.6	9.77
5750	7.5	9.22
6000	7.5	8.87
6250	7.5	8.45
6500	7.5	8.18
6750	7.2	7.53
7000	7.1	7.13
7250	7.0	6.80
7500	6.8	6.40
7750	6.5	5.91
8000	6.4	5.68
8250	6.2	5.34
8500	6.0	4.97
8750	5.4	4.39
9000	5.2	4.10
9250	4.9	3.73
9500	4.3	3.18

Comments
STANDAR

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.7HP
 0.0N*M*MM
 14.44N*M*MM



B. Menggunakan Roller 8 gram dengan Pegas CVT 1000rpm





Dipinjam dari Mototech Indonesia
 Jl. Ringroad Selatan, Kemaman, Singosaren,
 Banguntapan, Bantul, Yogyakarta.
 Tlp : +62 274 65 363 03

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

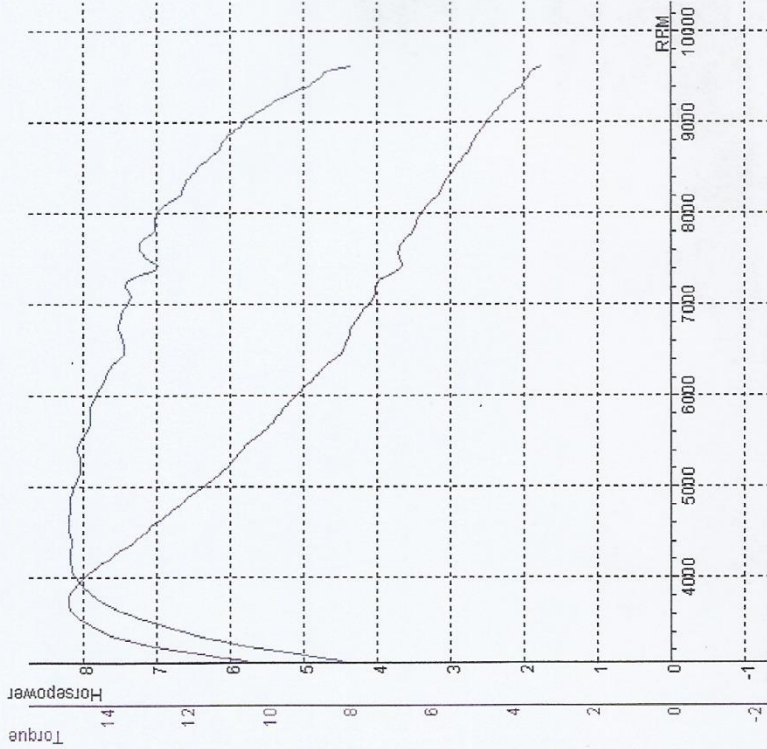
Displacement Correction
 Correction Factor: ISO 1585
 NOTE: Load Cell Included.

TEST NAME: HONDA SCOOPY 110 T045
 MAX POWER: 8.18 (8.2) - 8888
 MAX TORQUE: 14.88 (14.88) - 3701
 Temp. °C: 31.6 °C
 Humidity %: 63 %
 Pressure: 1000.0 mbar
 KMH: 95.0
 Date/Time: 6/10/2016 10:47:07 AM

DATA FOR TEST: HONDA SCOOPY 110 T045

RPM	HP (HPQ(N*M*MM))	T
2750	4.8	11.06
3000	5.1	11.59
3250	5.8	12.92
3500	7.1	14.49
3701	7.7	14.88
3750	7.8	14.86
4000	8.1	14.45
4250	8.2	13.64
4500	8.2	12.90
4888	8.2	12.74
4750	8.2	12.22
5000	8.1	11.51
5250	8.0	10.81
5500	8.0	10.37
5750	7.9	9.73
6000	7.8	9.21
6250	7.6	8.65
6500	7.4	8.09
6750	7.5	7.88
7000	7.4	7.45
7250	7.4	7.19
7500	7.1	6.70
7750	7.1	6.49
8000	7.0	6.15
8250	6.6	5.68
8500	6.4	5.32
8750	6.1	4.92
9000	5.8	4.55
9250	5.3	4.03
9500	4.8	3.53

Comments: PER CVT 1000 RPM // ROLLER 8GRAM
 LOSSES: 0.0 HP
 TOTAL ENGINE: 8.2 HP
 0.0N*M*MM
 14.88N*M*MM





PT. RINGROAD MOTOTECH INDONESIA SUPPLIER
 Jl. Ringroad Selatan, Kemaman, Singosaren,
 Banguntapan, Bantul, Yogyakarta.
 Telp : +62 274 65 363 63

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

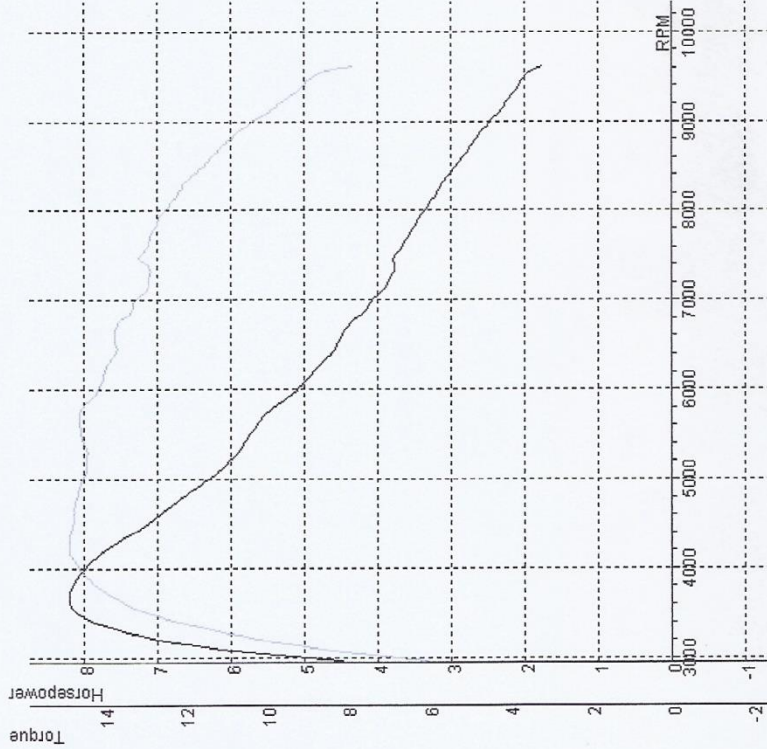
Displacement Correction
 Correction Factor: ISO 1585
 NOTE: Load Cell included.

TEST NAME: HONDA SCOOPY 110 T044
 MAX POWER: 8.2 HP
 MAX TORQUE: 14.84 (14.84) / 3687
 Temp. °C: 31.6 °C
 Humidity %: 63 %
 Pressure: 1000.0 mbar
 KMH: 95.2
 Date/Time: 6/10/2016 10:46:41 AM

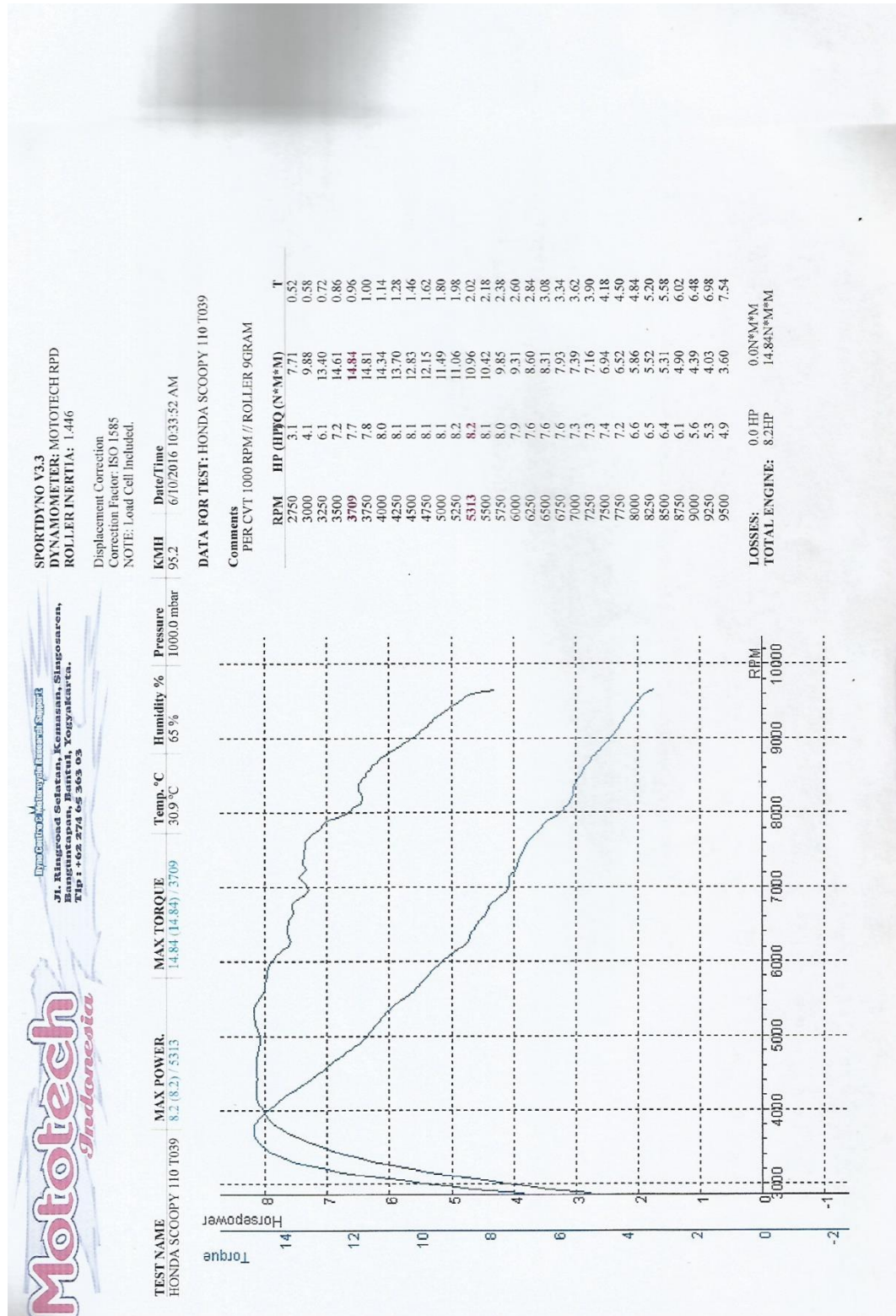
DATA FOR TEST: HONDA SCOOPY 110 T044

RPM	HP (HP@N*M*M)	T
2750	3.7	8.94
3000	4.1	9.72
3250	6.1	13.41
3500	7.1	14.65
3687	7.6	14.84
3750	7.8	14.81
4000	8.1	14.44
4250	8.2	13.75
4296	8.2	13.64
4500	8.1	12.88
4750	8.1	12.11
5000	8.0	11.35
5250	8.0	10.72
5500	8.0	10.37
5750	8.0	9.90
6000	7.8	9.19
6250	7.7	8.69
6500	7.6	8.23
6750	7.5	7.88
7000	7.3	7.35
7250	7.1	6.94
7500	7.2	6.82
7750	7.1	6.44
8000	6.9	6.07
8250	6.7	5.70
8500	6.4	5.29
8750	6.1	4.89
9000	5.7	4.46
9250	5.2	4.00
9500	4.9	3.63

LOSSES: 0.0N*M*M
 TOTAL ENGINE: 8.2HP
 14.84N*M*M



C. Menggunakan Roller 9 gram dengan Pegas CVT 1000 rpm



Jalan Gunung Kidul, Yogyakarta
Mototech
 Indonesia
 Jl. Ringroad Selatan, Kemaman, Singaperbangsa, Banguntapan, Bantul, Yogyakarta.
 Telp : +62 274 65 363 03



Pura Gedung Motorcycle Research Center
 Jl. Ringroad Selatan, Kemasan, Singosari,
 Banguntapan, Bantul, Yogyakarta.
 Tlp : +62 274 65 363 63

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

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

TEST NAME: HONDA SCOOPY 110 T038
 MAX POWER: 8.2 (8.2) / 4451
 MAX TORQUE: 14.38 (14.38) / 3841
 Temp. °C: 30.9 °C
 Humidity %: 65 %
 Pressure: 1000.0 mbar
 KMH: 95.0
 Date/Time: 6/10/2016 10:33.24 AM

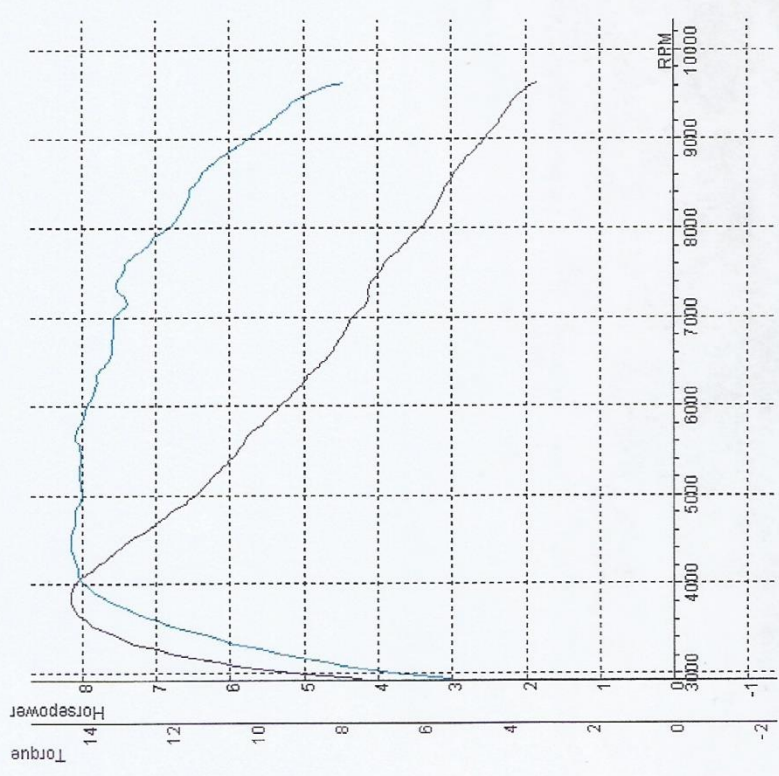
DATA FOR TEST: HONDA SCOOPY 110 T038

Comments

PER CVT 1000 RPM // ROLLER 9GRAM

RPM	HP (HP/1000 RPM)	T (N*M/M)
2750	3.3	8.12
3000	3.9	9.38
3250	5.6	12.31
3500	6.7	13.75
3750	7.5	14.35
3841	7.7	14.38
4000	8.0	14.25
4250	8.1	13.55
4451	8.2	13.08
4500	8.1	12.89
4750	8.1	12.07
5000	8.0	11.34
5250	8.0	10.86
5500	8.0	10.34
5750	8.0	9.92
6000	7.9	9.36
6250	7.8	8.85
6500	7.6	8.31
6750	7.6	7.96
7000	7.6	7.63
7250	7.5	7.28
7500	7.4	7.01
7750	7.2	6.55
8000	6.8	6.00
8250	6.6	5.64
8500	6.5	5.36
8750	6.2	4.97
9000	5.7	4.50
9250	5.4	4.09
9500	5.0	3.68

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.2 HP
 0.0 N*M/M
 14.38 N*M/M





Dipusatkan Mengembangkan Produk
 Jl. Ringroad Selatan, Kemaman, Singosaren,
 Banguntapan, Bantul, Yogyakarta.
 Telp : +62 272 05 303 03

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

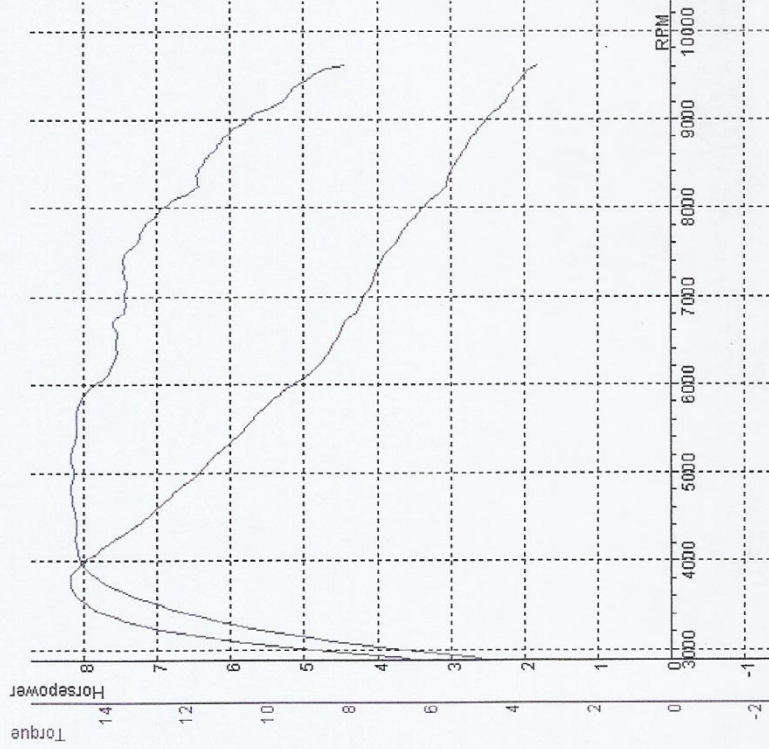
Displacement Correction
 Correction Factor: ISO 1585
 NOTE: Load Cell Included.

TEST NAME: HONDA SCOOPY 110 T037
 MAX POWER: 8.2 (HP) 5157
 MAX TORQUE: 14.76 (N.M) 3754
 Temp. °C: 30.9 °C
 Humidity %: 65 %
 Pressure: 1000.0 mbar
 KMH: 95.1
 Date/Time: 6/10/2016 10:32:59 AM

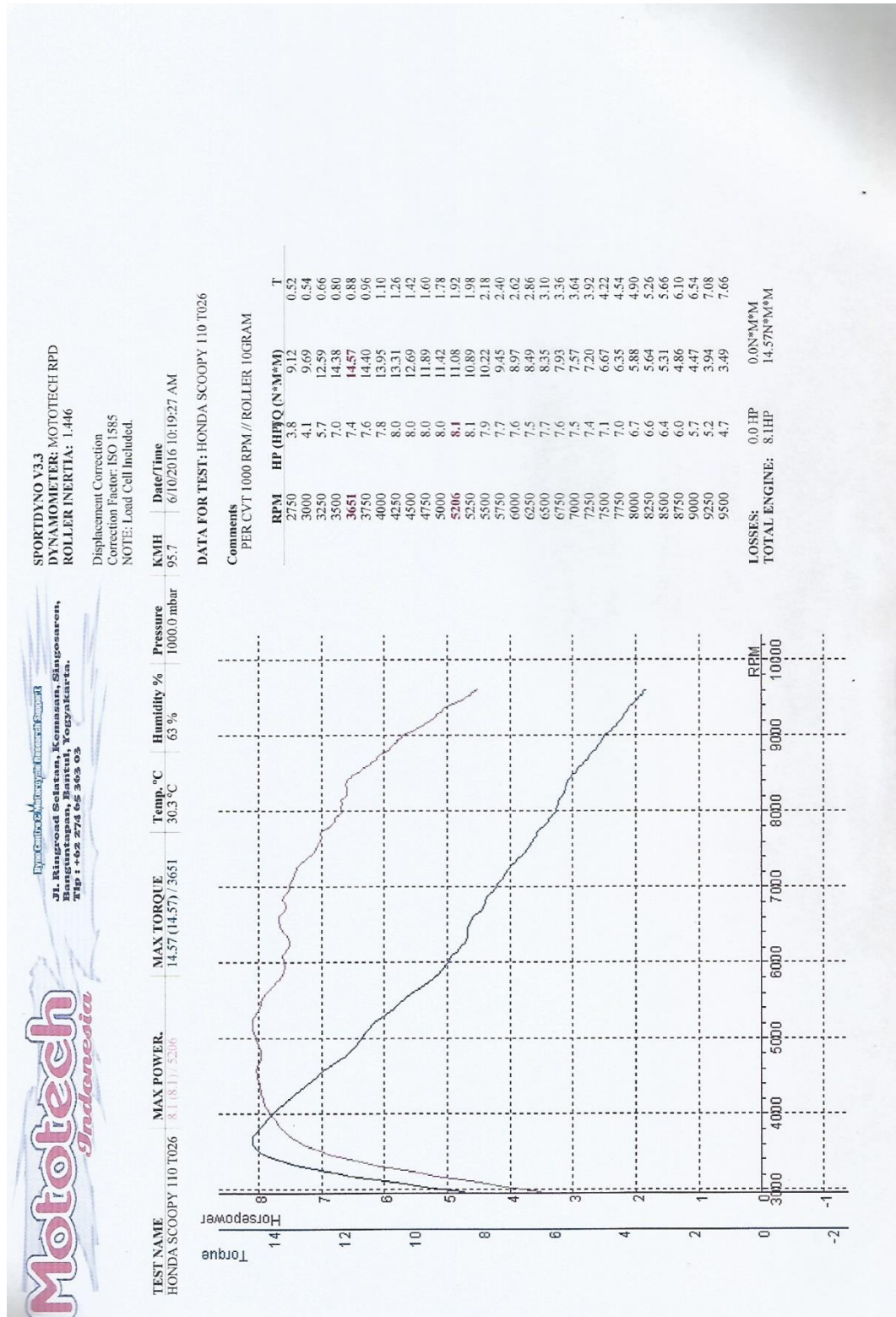
DATA FOR TEST: HONDA SCOOPY 110 T037

RPM	HP (HP@Q (N*M@M)	T
2750	2.9	7.25
3000	4.0	9.47
3250	6.0	13.08
3500	7.0	14.32
3750	7.7	14.76
4000	8.1	14.32
4250	8.1	13.63
4500	8.1	12.77
4750	8.2	12.21
5000	8.1	11.54
5157	8.2	11.29
5250	8.2	11.04
5500	8.1	10.45
5750	8.1	9.96
6000	7.8	9.21
6250	7.6	8.60
6500	7.6	8.21
6750	7.5	7.88
7000	7.5	7.53
7250	7.5	7.27
7500	7.4	6.95
7750	7.2	6.55
8000	6.9	6.09
8250	6.4	5.52
8500	6.4	5.27
8750	6.1	4.95
9000	5.8	4.53
9250	5.2	3.96
9500	4.9	3.62

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.2HP
 0.0N*M*PM
 14.76N*M*PM



D. Menggunakan Roller 10 gram dengan Pegas CVT 1000 rpm





Dipusatkan Melayu Indonesia Super
 Jl. Ringroad Selatan, Kemaman, Singaperan,
 Banguntapan, Bantul, Yogyakarta.
 Tlp : +62 274 62 363 93

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

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

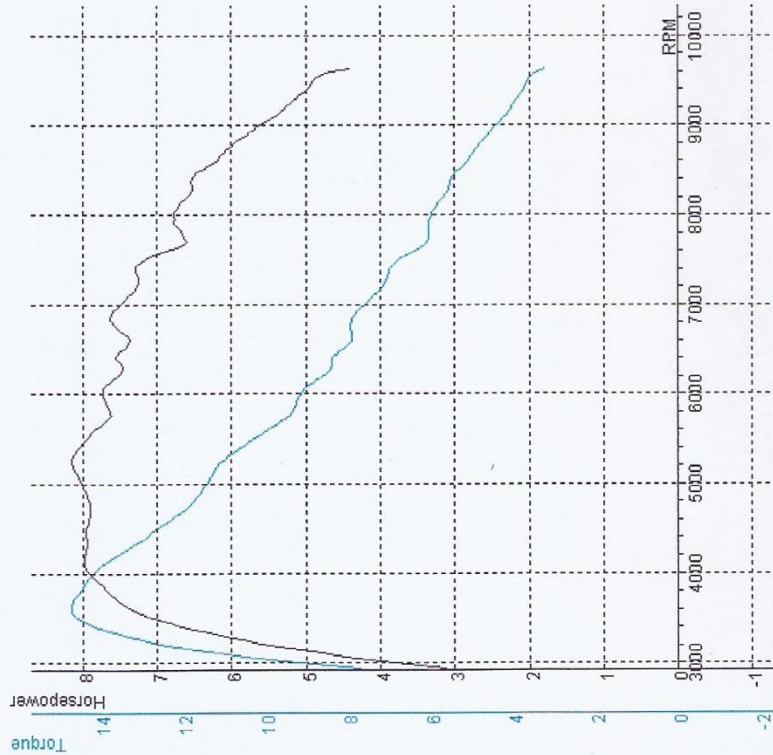
TEST NAME: HONDA SCOOPY 110 T025
 MAX TORQUE: 14.69 (14.69) / 3619
 MAX POWER: 8.2 (8.2) / 5255
 Temp. °C: 30.3 °C
 Humidity %: 63 %
 Pressure: 1000.0 mbar
 KMH: 95.7
 Date/Time: 6/10/2016 10:19:02 AM

DATA FOR TEST: HONDA SCOOPY 110 T025

Comments
 PER CVT 1000 RPM // ROLLER 10GRAM

RPM	HP (HPQ) (N*M/M)	T
2750	3.5	8.43
3000	3.8	9.16
3250	5.9	12.96
3500	7.1	14.56
3619	7.4	14.69
3750	7.6	14.54
4000	7.9	14.10
4250	7.9	13.29
4500	7.9	12.56
4750	7.9	11.80
5000	8.0	11.39
5250	8.2	11.04
5255	8.2	11.04
5500	7.9	10.26
5750	7.6	9.37
6000	7.7	9.11
6250	7.5	8.45
6500	7.4	8.07
6750	7.6	7.93
7000	7.5	7.54
7250	7.3	7.06
7500	7.2	6.75
7750	6.6	6.05
8000	6.8	5.97
8250	6.5	5.59
8500	6.4	5.28
8750	6.0	4.87
9000	5.6	4.41
9250	5.2	3.96
9500	4.9	3.64

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.2 HP
 0.0 N*M/RPM
 14.69 N*M/RPM

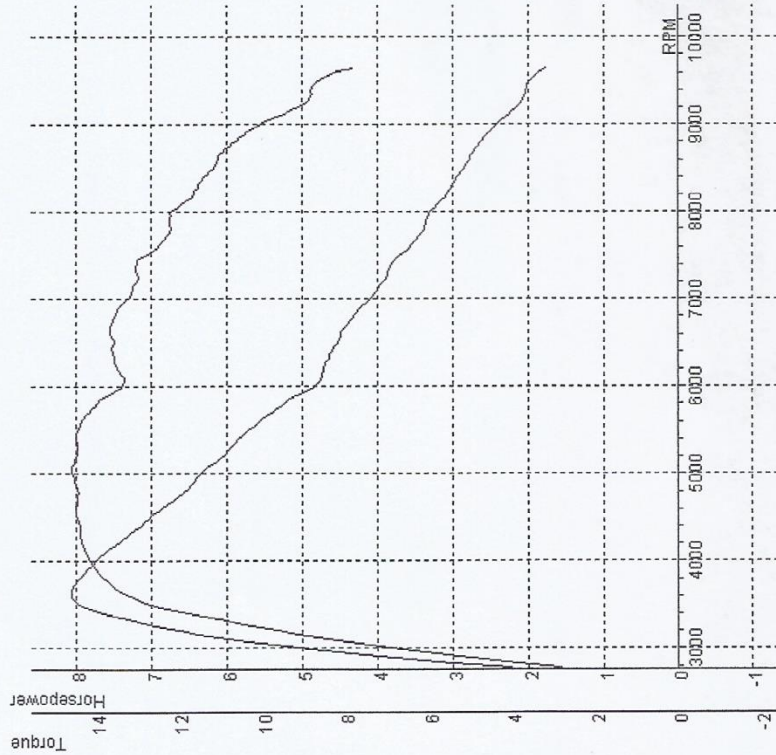


TEST NAME: HONDA SCOOPY 110 T024
MAX TORQUE: 14.58 (14.58) / 3632
MAX POWER: 8.1 (8.1) / 5028
KMH: 95.9
Date/Time: 6/10/2016 10:18:36 AM

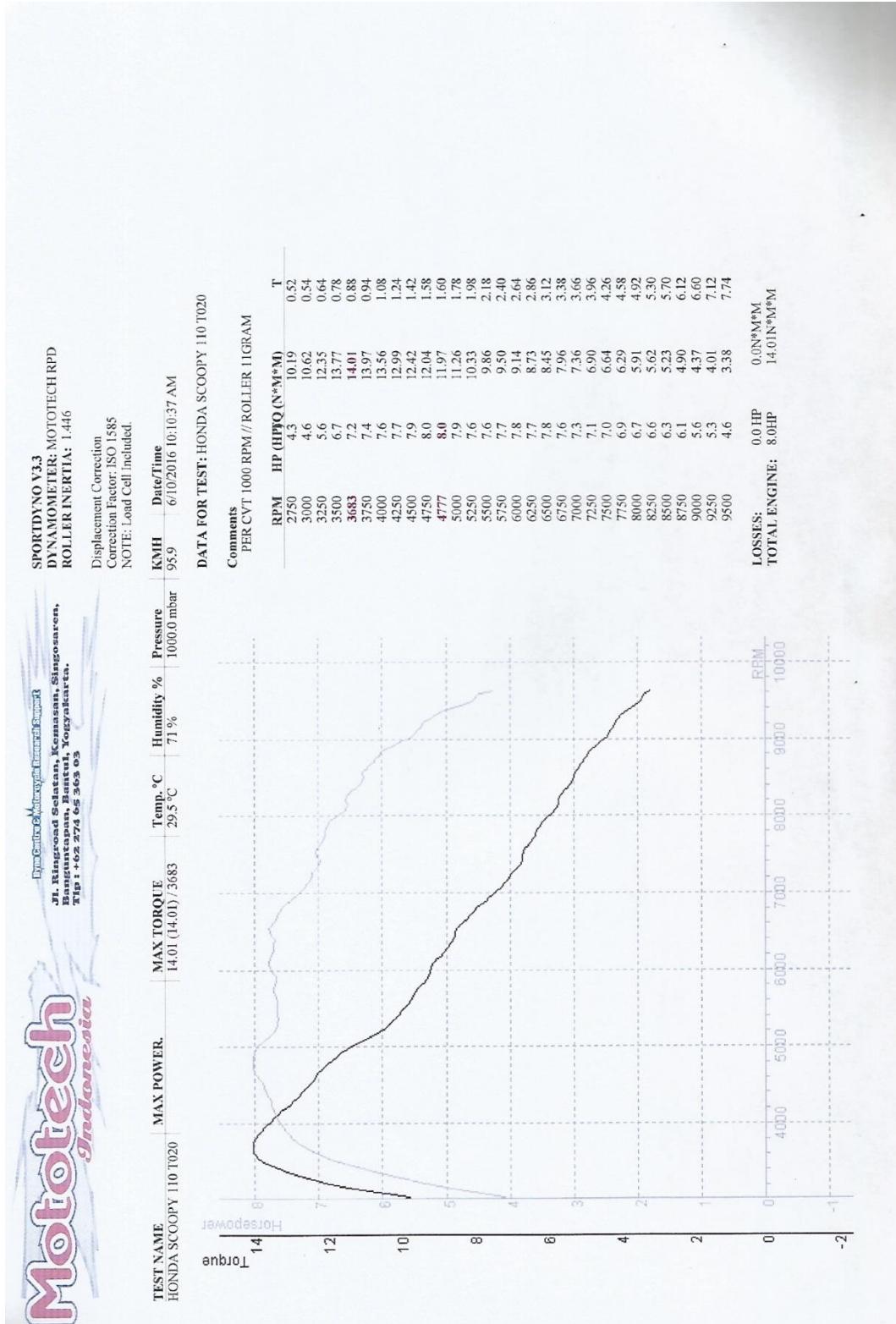
DATA FOR TEST: HONDA SCOOPY 110 T024

RPM	HP (HP)Q (N*M*MM)	T
2750	1.8	4.70
3000	4.0	9.43
3250	5.8	12.73
3500	7.1	14.45
3632	7.4	14.58
3750	7.6	14.44
4000	7.8	13.98
4250	7.9	13.33
4500	8.0	12.61
4750	8.0	11.89
5000	8.1	11.43
5028	8.1	11.43
5250	8.0	10.80
5500	8.0	10.29
5750	7.8	9.58
6000	7.4	8.71
6250	7.5	8.48
6500	7.5	8.15
6750	7.5	7.88
7000	7.3	7.35
7250	7.2	6.99
7500	7.1	6.66
7750	6.8	6.15
8000	6.7	5.96
8250	6.4	5.46
8500	6.1	5.10
8750	5.9	4.79
9000	5.5	4.33
9250	5.0	3.78
9500	4.8	3.53

LOSSES: 0.0 N*M*MM
TOTAL ENGINE: 8.1 HP
14.58 N*M*MM



E. Menggunakan *Roller* 11 gram dengan Pegas CVT 1000 rpm



Mototech
Indonesia

Diponegoro, Yogyakarta
 Jl. Ringroad Selatan, Kemaman, Singosaren,
 Banguntapan, Bantul, Yogyakarta.
 Tlp : +62 274 65 3653 03

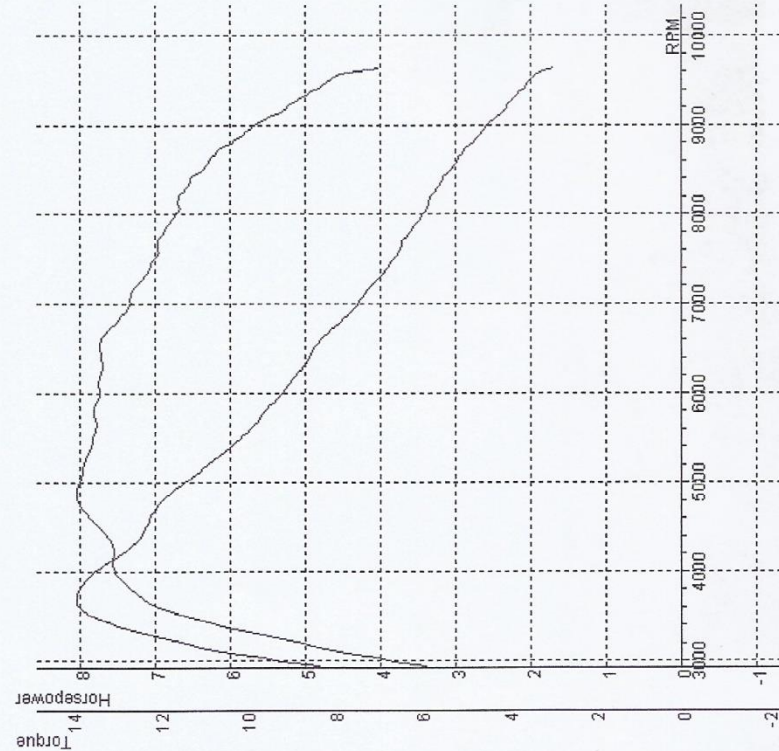


Dinas Gendarmerie Kepolisian Daerah Sumatera
 Jl. Ringroad Selatan, Kemisan, Singosaren,
 Banguntapan, Bantui, Yogyakarta.
 Telp : + 62 274 65 363 63

SPORTDYNO 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
 HONDA SCOOPY 110 T019 | 8.0 (8.0) / 4862 | 13.88 (13.88) / 3662 | 29.5 °C | 71 % | 1000.0 mbar | 96.0 | 6/10/2016 10:10:10 AM



DATA FOR TEST: HONDA SCOOPY 110 T019

Comments
 PER CVT 1000 RPM // ROLLER 11 GRAM

RPM	HP (HP@Q (N*M*M))	T
2750	3.6	8.77
3000	4.0	9.60
3250	5.4	11.91
3500	6.7	13.66
3662	7.1	13.88
3750	7.3	13.83
4000	7.5	13.41
4250	7.5	12.66
4500	7.8	12.25
4750	8.0	11.98
4862	8.0	11.77
5000	8.0	11.31
5250	7.9	10.72
5500	7.8	10.05
5750	7.8	9.63
6000	7.7	9.11
6250	7.7	8.71
6500	7.7	8.40
6750	7.5	7.91
7000	7.3	7.39
7250	7.2	7.01
7500	7.0	6.59
7750	6.9	6.30
8000	6.7	5.95
8250	6.6	5.64
8500	6.3	5.28
8750	6.1	4.91
9000	5.7	4.44
9250	5.2	3.94
9500	4.7	3.46

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.0 HP
 0.0 N*M*M
 13.88 N*M*M

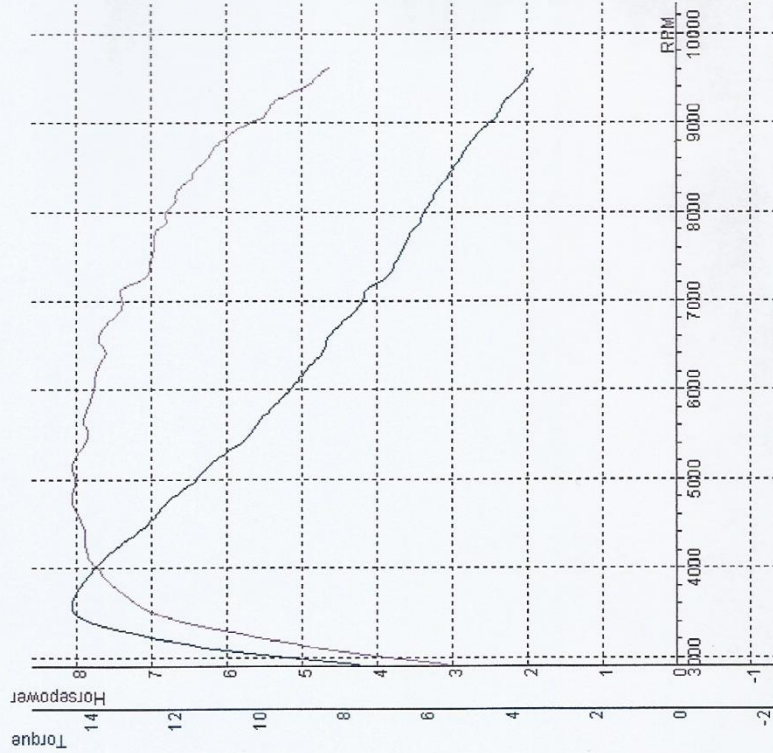
Displacement Correction
 Correction Factor: ISO 1585
 NOTE: Load Cell Included.

TEST NAME: HONDA SCOOPY 110 T018
 MAX POWER: 8.1 (8.1) / 4785
 MAX TORQUE: 14.37 (14.37) / 3574
 Temp. °C: 29.5 °C
 Humidity %: 71 %
 Pressure: 1000.0 mbar
 KMH: 95.9
 Date/Time: 6/10/2016 10:09:42 AM

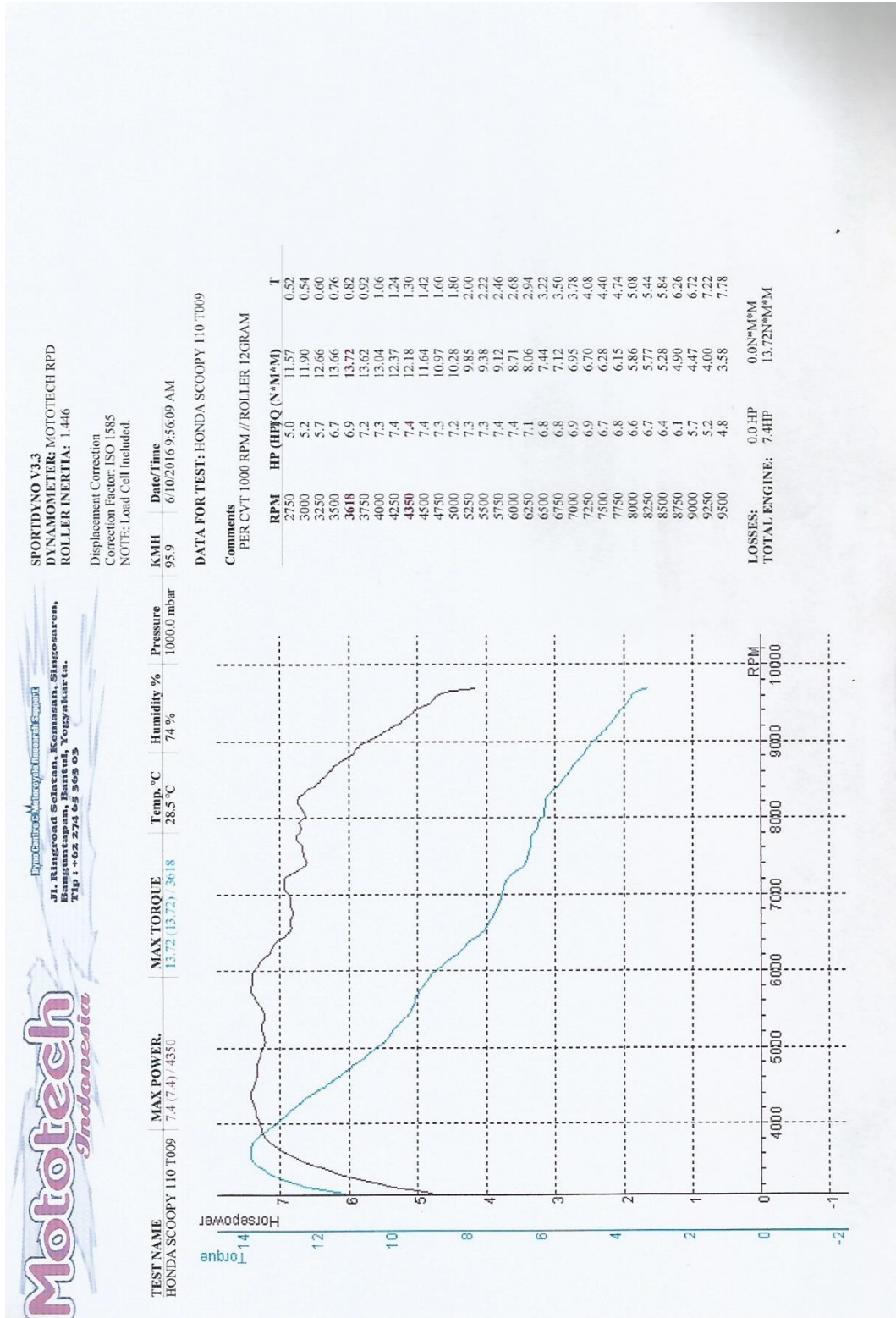
DATA FOR TEST: HONDA SCOOPY 110 T018

RPM	HP (HP) (N*M*PM)	T
2750	3.4	8.26
3000	4.0	9.54
3250	5.8	12.84
3500	7.0	14.33
3574	7.1	14.37
3750	7.5	14.18
4000	7.7	13.81
4250	7.9	13.22
4500	7.9	12.55
4750	8.1	12.07
4785	8.1	12.00
5000	8.0	11.41
5250	8.0	10.81
5500	7.8	10.13
5750	7.9	9.70
6000	7.8	9.18
6250	7.7	8.72
6500	7.7	8.34
6750	7.6	7.92
7000	7.4	7.46
7250	7.1	6.92
7500	7.0	6.57
7750	7.0	6.34
8000	6.8	5.99
8250	6.6	5.67
8500	6.3	5.26
8750	6.1	4.91
9000	5.6	4.39
9250	5.3	4.07
9500	4.8	3.55

LOSSES: 0.0N*MM
 TOTAL ENGINE: 8.1HP
 14.37N*MM



F. Menggunakan Roller 12 gram dengan Pegas CVT 1000 rpm



Mototech
Indonesia

Peta Gedung Mototech Indonesia Semarang
 Jl. Ringroad Selatan, Kemaman, Singosaren,
 Banguntapan, Bantul, Yogyakarta.
 Tlp : +62 274 05 365 03



Dinas Center of Technology and Research
 Jl. Ringroad Selatan, Kemaman, Singosaren,
 Banguntapan, Bantul, Yogyakarta.
 Telp : +62 272 65 363 03

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

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

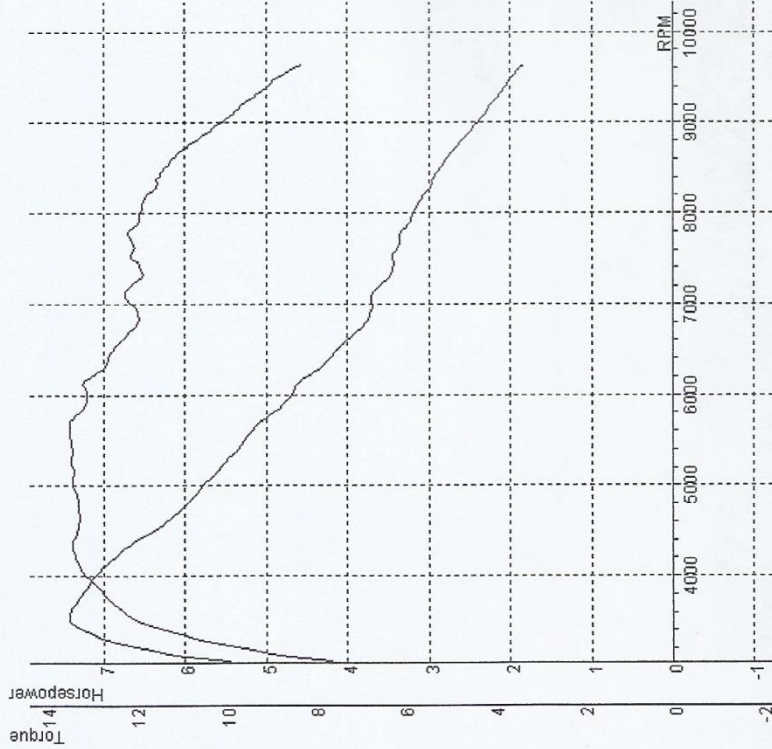
TEST NAME | MAX POWER | MAX TORQUE | Temp. °C | Humidity % | Pressure
 HONDA SCOOPY 110 T008 | 7.4 (7.4) / 5668 | 13.47 (13.47) / 3549 | 28.5 °C | 74 % | 1000.0 mbar

KMH | Date/Time
 95.4 | 6/10/2016 9:55:47 AM

DATA FOR TEST: HONDA SCOOPY 110 T008

Comments	RPM	HP (HP@Q (N*M*AM))	T
PER CVT 1000 RPM // ROLLER 12GRAM	2750	4.5	10.41
	3000	4.7	10.87
	3250	5.7	12.52
	3500	6.6	13.46
	3549	6.7	13.47
	3750	7.0	13.22
	4000	7.2	12.91
	4250	7.4	12.32
	4500	7.3	11.55
	4750	7.3	10.94
	5000	7.4	10.48
	5250	7.4	10.01
	5500	7.4	9.54
	5668	7.4	9.29
	5750	7.4	9.09
	6000	7.2	8.52
	6250	7.1	8.00
	6500	6.9	7.49
	6750	6.6	6.93
	7000	6.7	6.72
	7250	6.6	6.41
	7500	6.6	6.26
	7750	6.7	6.10
	8000	6.6	5.79
	8250	6.4	5.47
	8500	6.2	5.19
	8750	5.9	4.79
	9000	5.5	4.34
	9250	5.2	3.97
	9500	4.8	3.59

LOSSES: 0.0N*M*AM
 TOTAL ENGINE: 7.4HP
 13.47N*M*AM





Tipe Center of Gravity: Inboard / Outboard
 Jl. Riverside Solatan, Kemasari, Singaperbangsa,
 Buaranmekar, Bekasi, Yogyakarta.
 Telp : +62 274 65 363 63

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

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

TEST NAME
 HONDA SCOOPY 110 T007

MAX POWER:
 7.5 (7.5) / 4311

MAX TORQUE
 13.29 (13.29) / 3720

Temp. °C
 28.5 °C

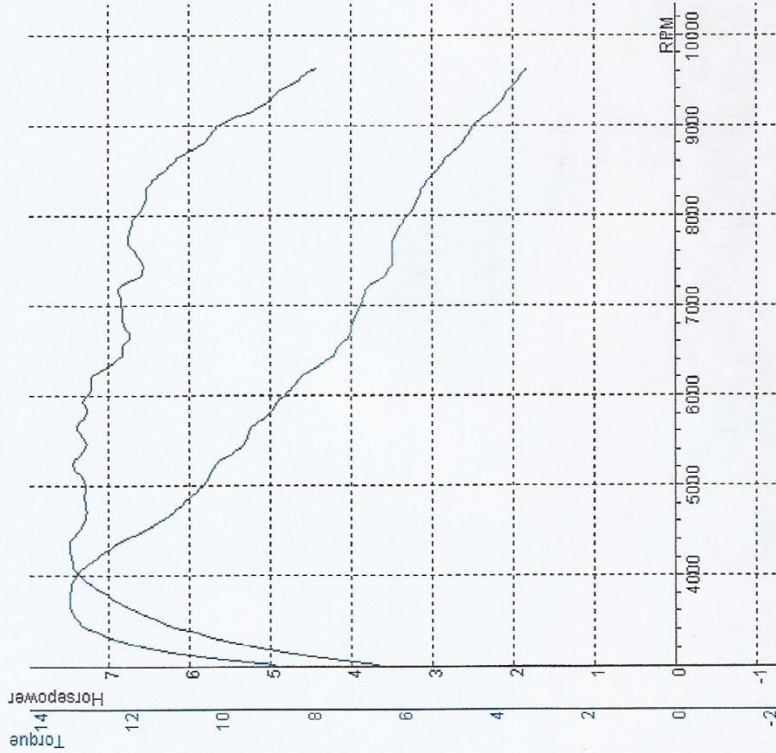
Humidity %
 74 %

Pressure
 1000.0 mbar

KMH
 95.5

Date/Time
 6/10/2016 9:55:20 AM

DATA FOR TEST: HONDA SCOOPY 110 T007



Comments
 PER CVT 1000 RPM // ROLLER 12GRAM

RPM	HP (HP@Q (N*M*M))	T
2750	4.0	9.40
3000	4.2	9.94
3250	5.5	12.05
3500	6.5	13.14
3720	6.9	13.29
3720	7.0	13.29
4000	7.4	13.12
4250	7.5	12.46
4311	7.5	12.39
4500	7.3	11.64
4750	7.3	10.88
5000	7.3	10.32
5250	7.4	10.03
5500	7.3	9.39
5750	7.3	9.00
6000	7.2	8.56
6250	7.1	8.07
6500	6.8	7.43
6750	6.8	7.11
7000	6.8	6.91
7250	6.7	6.57
7500	6.6	6.21
7750	6.7	6.15
8000	6.6	5.85
8250	6.5	5.58
8500	6.3	5.20
8750	5.9	4.78
9000	5.6	4.40
9250	5.0	3.85
9500	4.6	3.43

LOSSES: 0.0 HP
TOTAL ENGINE: 7.5 HP
 0.0 N*M*PM
 13.29 N*M*PM