

LAMPIRAN

LAMPIRAN I

I.1. Hasil Perhitungan Perbandingan Daya (HP) dan Torsi (N.m)

Tabel 4.1 Perbandingan Daya (HP) Terhadap Unjuk Kerja Mesin 4-Langkah
Dan 2-Langkah Secara Spontan

I.2. Hasil Perbandingan Torsi (N.m)

HASIL PENGUKURAN DAYA (HP)					
Mesin 4-Langkah 115 cc (rpm)	Daya Mesin 4-Langkah 115 cc (HP)	Mesin 4-Langkah 125 cc (rpm)	Daya Mesin 4-Langkah 125 cc (HP)	Mesin 2-Langkah 100 cc (rpm)	Daya Mesin 2-Langkah 100 cc (HP)
4416	3.4	4500	6.3	4666	5.3
4666	4.3	4737	7.5	4916	5.9
4916	6	4833	7.7	5166	6.9
5045	6.3	5083	7.9	5416	7.3
5250	6.5	5333	8.3	5666	7.4
5500	6.8	5575	8.9	5916	7.9
5672	7	5750	9	6166	8.4
5916	7.3	6000	9.3	6416	9
6166	7.5	6250	9.5	6666	10
6416	7.7	6500	9.5	6916	10.9
6666	7.9	6750	9.5	7166	11.7
6916	8	7000	9.6	7338	12.3
7166	8.2	7213	9.8	7532	12.7
7351	8.2	7367	9.8	7732	13
7431	8.3	7500	9.6	7916	13.3
7666	8.2	7750	9.5	8054	13.4
7916	8.2	8000	9.3	8250	13.3
8166	8.1	8250	9.1	8477	12.2
8416	8	8500	8.8	8750	11.3
8666	7.7	8750	8.4	8916	10.6
8916	7.6	9000	8.3	9166	9.2
9166	7.4	9250	8.1	9416	8.1
9416	7.2			9666	7
9666	6.9			6500	5.85
9916	6.5			6666	5.5
10166	5.9			6833	5.1
10416	5.4				
10666	4.7				

TABEL PENGUKURAN TORSI (N.m)

Mesin 4- Langkah 115 cc (rpm)	Daya Mesin 4- Langkah 115 cc (HP)	Mesin 4- Langkah 125 cc (rpm)	Daya Mesin4- Langkah 125 cc (HP)	Mesin 2- Langkah 100 cc (rpm)	Daya Mesin 2- Langkah 100 cc (HP)
4416	5.19	4500	9.893	4666	7.63
4666	6.48	4737	11.34	4916	8.41
4916	8.76	4833	11.3	5166	9.47
5045	9	5083	11.06	5416	9.58
5250	8.8	5333	11.04	5666	9.34
5500	8.79	5575	11.36	5916	9.52
5672	8.81	5750	11.09	6166	9.65
5916	8.76	6000	10.8	6416	9.94
6166	8.72	6250	10.83	6666	10.56
6416	8.63	6500	10.4	6916	11.14
6666	8.43	6750	9.99	7166	11.55
6916	8.25	7000	9.74	7338	11.88
7166	8.17	7213	9.66	7532	12
7351	8.03	7367	9.47	7732	11.99
7431	7.93	7500	9.12	7916	11.9
7666	7.57	7750	8.66	8054	11.79
7916	7.36	8000	8.28	8250	11.48
8166	7.02	8250	7.82	8477	10.33
8416	6.7	8500	7.33	8750	9.32
8666	6.34	8750	6.85	8916	8.45
8916	6.08	9000	6.58	9166	7.16
9166	5.75	9250	6.22	9416	6.15
9416	5.41			9666	5.15
9666	5.09			6500	4.27
9916	4.69			6666	3.93
10166	4.13			6833	3.51

LAMPIRAN II

2.1. Karakteristik Konsumsi Bahan Bakar (*mj*) mesin 2-langkah system karburator konvensional dan 4-langkah system karburator konvensional

Tabel 4.3 Perbandingan konsumsi bahan bakar mesin 2-langkah system karburator konvensional dan 4-langkan system karburator konvensional

NO	Putaran Mesin (rpm)	Mesin 4-langkah 115 cc (kg/jam)	Mesin2- langkah 100 cc (kg/jam)
1	5166	0.4467	0.4482
2	6166	0.4481	0.4558
3	7166	0.5157	0.6254
4	8166	0.5913	0.8965
5	9166	0.6365	2

2.2. Perbandingan Konsumsi Bahan Bakar Spesifik (SFC) mesin 2-langkah system karburator konvensional dan 4-langkah system karburator konvensional

Tabel 4.4 Perbandingan konsumsi bahan bakar spesifik (SFC) mesin 2-langkah system karburator konvensional dan 4-langkah system karburator konvensional

NO	Putaran Mesin (rpm)	Mesin 4-langkah 115 cc (kg/jam)	Mesin 2-langkah 100 cc (kg/jam)
1	5166	0.0659	0.08711
2	6166	0.0689	0.07169
3	7166	0.0846	0.07278
4	8166	0.1129	0.08972
5	9166	0.1484	0.26135

2.3. Hasil perbandingan nilai konsumsi bahan bakar antara sepeda motor engine 4-langkah dan motor engine 2-langkah dengan menggunakan tesuji jalan

HASIL PENGUJIAN TES JALAN				
Jenis Kendaraan	Kecepatan	Menit	Rata-Rata konsumsi BB/ (ml)	Konsumsi BB (Km/Liter)
Mesin 4- Langkah 115 cc	40 km/jam	10	0.116	110
Mesin 4- Langkah 125 cc	40 km/jam	9	0.081	48
Mesin 4- Langkah 100 cc	40 km/jam	10	0.225	25

LAMPIRAN III

3.1. Tabel Hasil Pengujian Emisi Gas Buang Pada Mesin 4-langkah dan mesin 2-langkah

MESIN 4-LANGKAH 115 CC					
NO	Kadar Emisi	Putaran Mesin (Rpm)			
		4000	6000	9000	Rata-rata
1	CO	7.601	5.453	6.293	2.459
2	CO ₂	6.19	9.26	11.47	14.25
3	HC	1.968	1.119	272	1119
4	O ₂	5.47	2.77	0.82	3.02
5	λ	1	1	0.899	0.966

MESIN 4-LANGKAH 125 CC INJEKSI					
NO	Kadar Emisi	Putaran Mesin (Rpm)			
		4000	6000	9000	Rata-rata
1	CO	0.844	0.415	5.489	6.894
2	CO ₂	9.95	11.84	9.47	9.94
3	HC	698	140	253	363
4	O ₂	6.25	3.75	2.51	4.17
5	λ	1	1	0.93	0,986

MESIN 2-LANGKAH 100 CC					
NO	Kadar Emisi	Putaran Mesin (Rpm)			
		4000	6000	9000	Rata-rata
1	CO	5.081	5.995	4.282	7.001
2	CO ₂	3.09	3.64	4.18	4.726
3	HC	1014	9017	9399	6476
4	O ₂	11.76	9.99	9.35	10.36
5	λ	1	1	0.845	0.948

3.2. Tabel Variasi Hasil Pengujian Emisi Gas Buang

Kandungan CO (%Volume)					
N0	Variasi Pengujian	4000	6000	9000	rata-rata
1	Kandungan CO Mesin 4-langkah 115 cc	7.601	5.453	4.282	2.459
2	Kandungan CO Mesin 4-langkah 125 cc	0.844	0.415	5.489	6.894
3	Kandungan CO Mesin 2-langkah 100 cc	5.081	5.995	6.293	7.001

Kandungan CO ₂ (%/Volume)					
N0	Variasi Pengujian	4000	6000	9000	rata-rata
1	Kandungan CO ₂ Mesin 4-langkah 115 cc	6.19	9.26	11.47	14.25
2	Kandungan CO ₂ Mesin 4-langkah 125 cc	9.95	11.84	9.47	9.94
3	Kandungan CO ₂ Mesin 2-langkah 100 cc	3.09	3.64	4.18	4.726

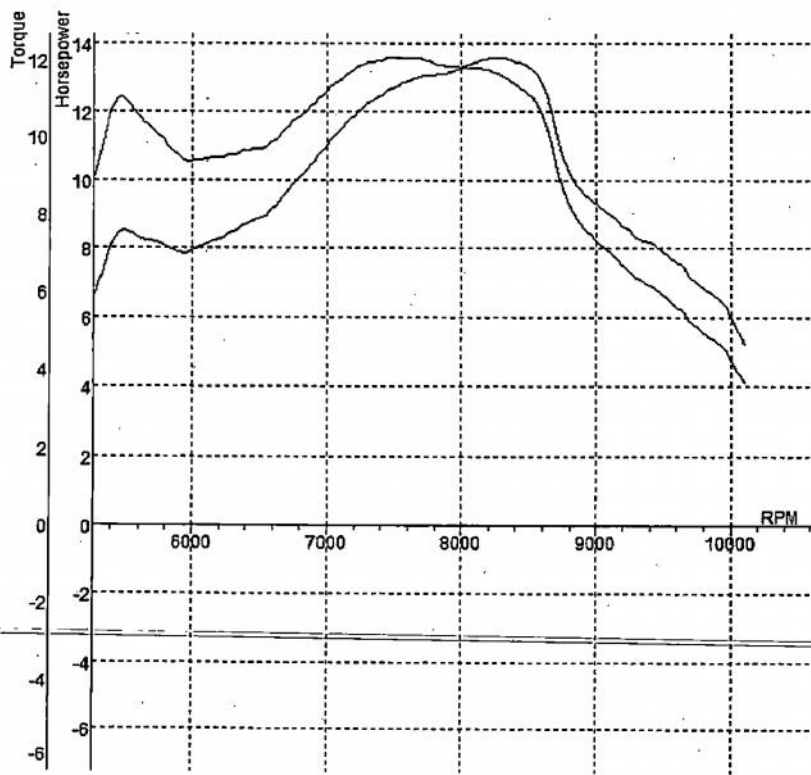
Kandungan O ₂ (%Volume)					
N0	Variasi Pengujian	4000	6000	9000	rata-rata
1	Kandungan O ₂ Mesin 4-langkah 115 cc	5.47	2.77	0.82	3.02
2	Kandungan O ₂ Mesin 4-langkah 125 cc	6.25	3.75	2.51	4.17
3	Kandungan O ₂ Mesin 2-langkah 100 cc	11.76	9.99	9.35	10.36

Kandungan HC (ppm/Volume)					
N0	Variasi Pengujian	4000	6000	9000	rata-rata
1	Kandungan HC Mesin 4-langkah 115 cc	1968	1119	272	1119
2	Kandungan HC Mesin 4-langkah 125 cc	698	140	253	363
3	Kandungan HC Mesin 2-langkah 100 cc	1014	9017	9399	6476

Kandungan λ (Lamda)					
N0	Variasi Pengujian	4000	6000	9000	rata-rata
1	Kandungan λ Mesin 4-langkah 115 cc	1	1	0.899	0.966
2	Kandungan λ Mesin 4-langkah 125 cc	1	1	0.93	0.986
3	Kandungan λ Mesin 2-langkah 100 cc	1	1	0.845	0.948

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
RC 100 T005	13.6 (13.6) / 8271	12.03 (12.03) / 7515	30.8 °C	54 %	1000.0 mbar	102.5	22/06/2015 14:45:04

DATA FOR TEST: RC 100 T005

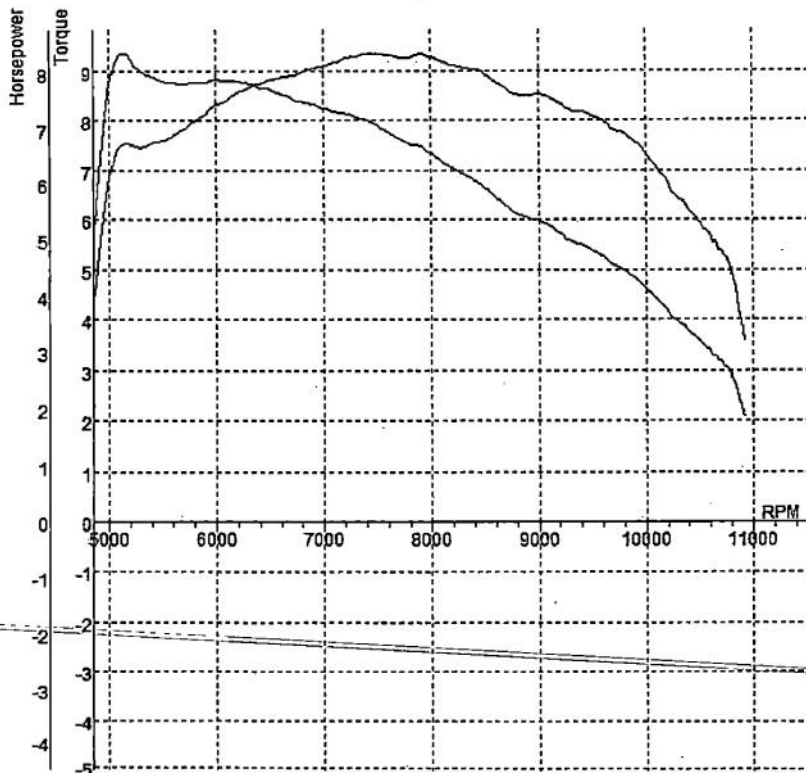


Comments
BASE

RPM	HP (HPTQ (N*M*M))	T
5000	6.9	9.32
5250	7.2	9.67
5500	8.5	10.92
5750	8.1	10.02
6000	7.9	9.35
6250	8.4	9.49
6500	8.9	9.68
6750	10.0	10.47
7000	11.2	11.27
7250	12.1	11.85
7500	12.7	12.03
7515	12.7	12.03
7750	13.1	11.94
8000	13.3	11.78
8250	13.6	11.63
8271	13.6	11.63
8500	13.2	11.01
8750	10.7	8.63
9000	9.3	7.27
9250	8.5	6.49
9500	7.9	5.83
9750	7.0	5.10
10000	6.1	4.27

LOSSES: 0.0 HP 0.0N*M*M
TOTAL ENGINE: 13.6HP 12.03N*M*M

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
UMY TEST TORSI DAYA T006	8.3 (8.3) / 7400	9.34 (9.34) / 5125	32.2 °C	64 %	1000.0 mbar	88.5	08/06/2015 13:53:29



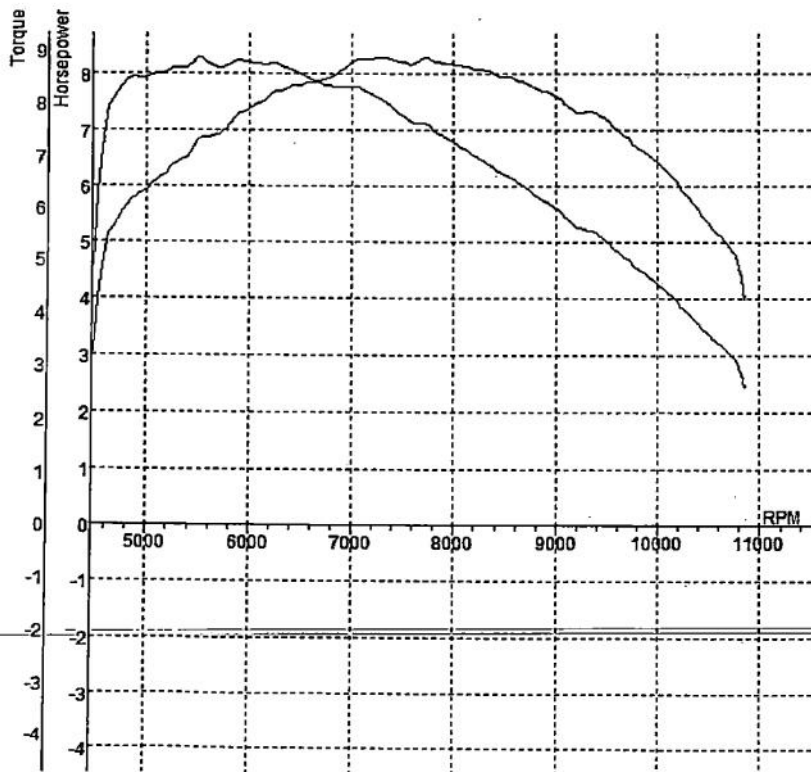
DATA FOR TEST: UMY TEST TORSI DAYA T006

Comments
PREMIUM

RPM	HP (HP)	(N*M*M)	T
4500	4.5	6.60	0,52
4750	5.0	7.24	0,54
5000	6.1	8.76	0,60
5125	6.7	9.34	0,68
5250	6.7	8.99	0,78
5500	6.8	8.77	0,94
5750	7.1	8.74	1,10
6000	7.4	8.80	1,26
6250	7.7	8.75	1,42
6500	7.9	8.59	1,60
6750	8.0	8.38	1,76
7000	8.1	8.22	1,94
7250	8.3	8.09	2,12
7400	8.3	8.00	2,22
7500	8.3	7.88	2,30
7750	8.3	7.53	2,50
8000	8.3	7.29	2,70
8250	8.1	6.95	2,90
8500	8.0	6.63	3,12
8750	7.6	6.15	3,36
9000	7.6	5.98	3,60
9250	7.4	5.61	3,86
9500	7.2	5.36	4,12
9750	6.9	5.02	4,42
10000	6.6	4.66	4,74
10250	5.8	4.01	5,12
10500	5.3	3.55	5,52
10750	4.7	3.05	6,04

LOSSES: 0.0 HP 0.0N*M*M
TOTAL ENGINE: 8.3HP 9.34N*M*M

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
UMY TEST TORSI DAYA T005	8.3 (8.3) / 7294	8.85 (8.85) / 5517	32.2 °C	64 %	1000.0 mbar	87.9	08/06/2015 13:53:09



DATA FOR TEST: UMY TEST TORSI DAYA T005

Comments
PREMIUM

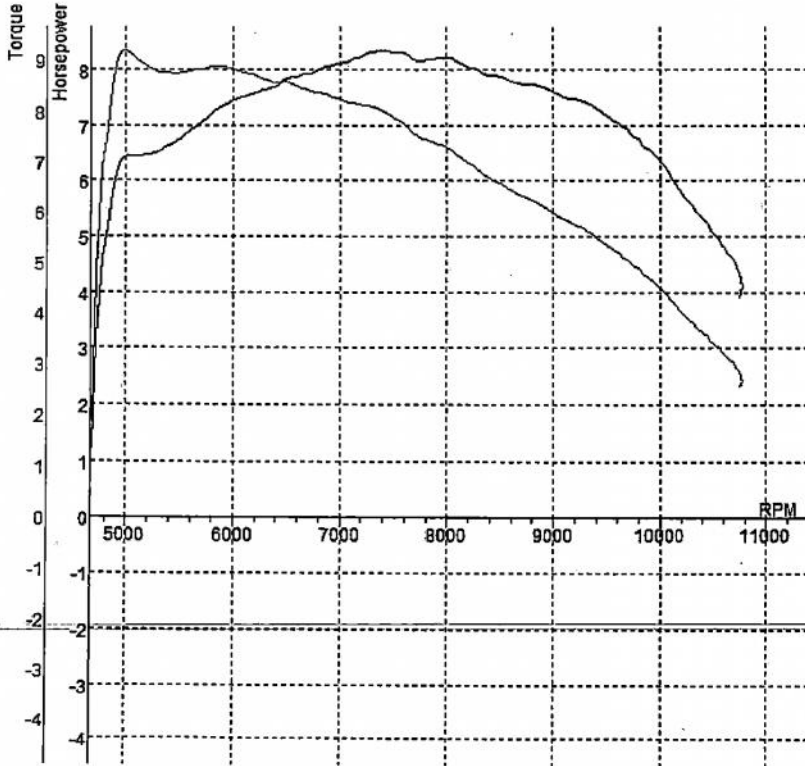
RPM	HP (HPTQ)	(N*M*M)	T
4250	3.5	5.60	0,52
4500	4.0	6.28	0,54
4750	5.6	8.34	0,70
5000	6.0	8.49	0,86
5250	6.4	8.65	1,04
5500	6.9	8.85	1,20
5517	6.9	8.85	1,20
5750	7.0	8.68	1,36
6000	7.4	8.76	1,52
6250	7.7	8.74	1,68
6500	7.8	8.55	1,84
6750	7.9	8.32	2,04
7000	8.2	8.32	2,20
7250	8.3	8.09	2,38
7294	8.3	8.07	2,40
7500	8.2	7.75	2,56
7750	8.3	7.55	2,76
8000	8.2	7.22	2,96
8250	8.1	6.94	3,16
8500	8.0	6.63	3,38
8750	7.8	6.29	3,62
9000	7.6	5.97	3,86
9250	7.3	5.58	4,12
9500	7.2	5.35	4,38
9750	6.7	4.89	4,68
10000	6.4	4.50	5,02
10250	5.9	4.06	5,38
10500	5.3	3.59	5,80
10750	4.8	3.12	6,30

LOSSES: 0.0 HP 0.0N*M*M
TOTAL ENGINE: 8.3HP 8.85N*M*M

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
UMY TEST TORSI DAYA T002	8.3 (8.3) / 7401	9.19 (9.19) / 5010	32.2 °C	64 %	1000.0 mbar	87.4	08/06/2015 13:52:14

DATA FOR TEST: UMY TEST TORSI DAYA T002

Comments
PREMIUM

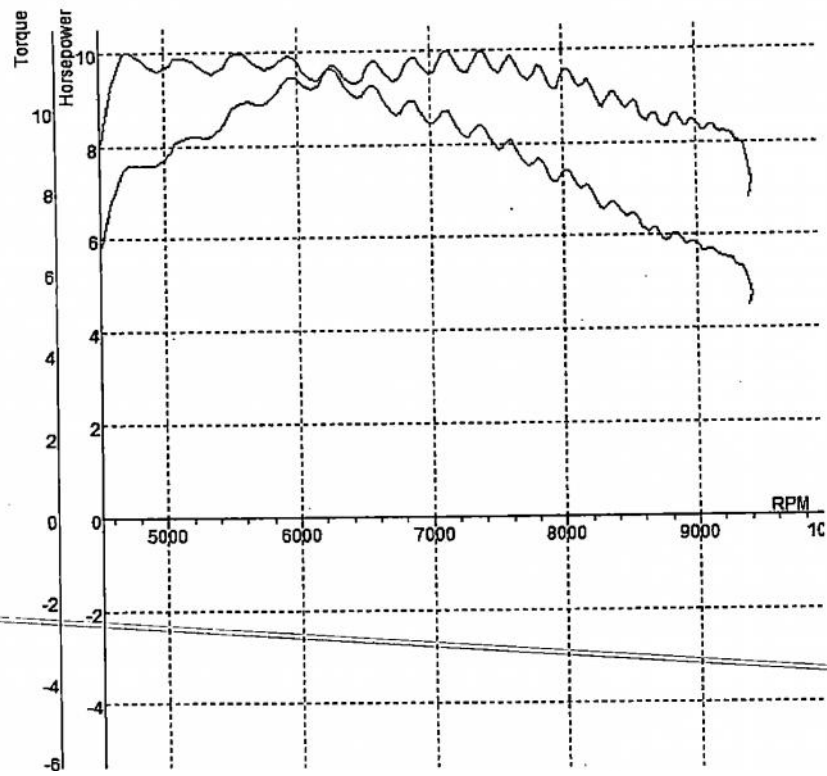


RPM	HP (BHP)	(N*M*M)	T
4500	2.2	3.38	0,52
4750	3.9	5.92	0,56
5000	6.4	9.19	0,72
5010	6.4	9.19	0,72
5250	6.5	8.78	0,90
5500	6.8	8.75	1,06
5750	7.1	8.84	1,20
6000	7.5	8.82	1,38
6250	7.6	8.65	1,54
6500	7.9	8.56	1,72
6750	8.0	8.36	1,88
7000	8.1	8.21	2,06
7250	8.3	8.10	2,24
7401	8.3	8.00	2,34
7500	8.3	7.85	2,42
7750	8.2	7.45	2,62
8000	8.2	7.26	2,82
8250	8.0	6.89	3,02
8500	7.9	6.53	3,26
8750	7.7	6.26	3,48
9000	7.6	5.97	3,72
9250	7.4	5.69	3,98
9500	7.1	5.31	4,26
9750	6.8	4.92	4,54
10000	6.4	4.52	4,88
10250	5.6	3.88	5,26
10500	5.1	3.40	5,70
10750	4.2	2.78	6,30

LOSSES: 0.0 HP 0.0N*M*M
TOTAL ENGINE: 8.3HP 9.19N*M*M

TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
UMY TEST SUPRA FI T007	10.0 (10.0) / 7141	11.40 (11.40) / 4733	31.2 °C	41 %	1000.0 mbar	98.9	15/06/2015 14:36:02

DATA FOR TEST: UMY TEST SUPRA FI T007



Comments
BASE

RPM	HP (HPTQ (N*M*M))	T
4500	6.2	9.76
4733	7.6	11.40
4750	7.6	11.37
5000	7.8	11.04
5250	8.2	11.09
5500	8.8	11.32
5750	8.9	10.99
6000	9.4	11.03
6250	9.7	10.98
6500	9.6	10.45
6750	9.5	9.89
7000	9.5	9.62
7141	10.0	9.93
7250	9.5	9.30
7500	9.5	8.97
7750	9.4	8.60
8000	9.5	8.44
8250	8.9	7.60
8500	8.9	7.36
8750	8.3	6.74
9000	8.3	6.54
9250	8.2	6.22

LOSSES: 0.0 HP 0.0N*M*M
TOTAL ENGINE: 10.0HP 11.40N*M*M

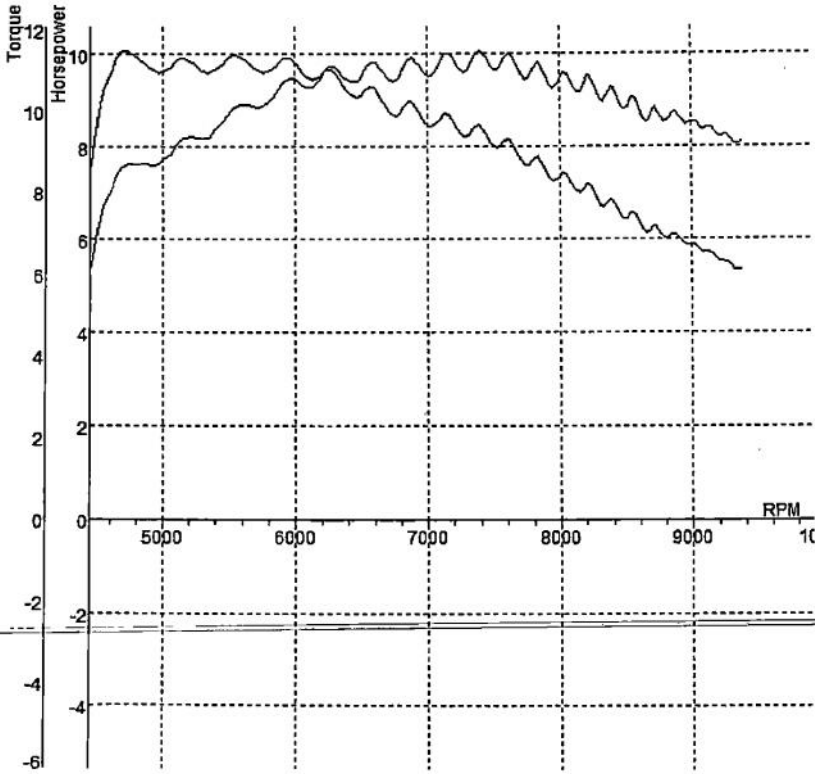
TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
UMY TEST SUPRA FIT009	10.1 (10.1) / 7389	11.46 (11.46) / 4729	31.2 °C	41 %	1000.0 mbar	98.7	15/06/2015 14:36:43

DATA FOR TEST: UMY TEST SUPRA FIT009

Comments
 BASE

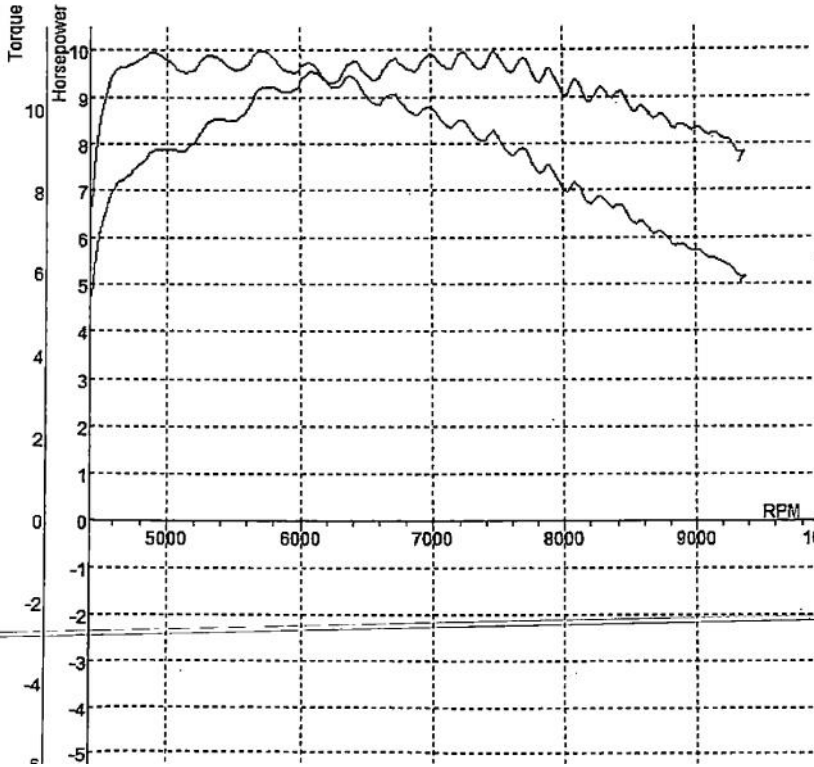
RPM	HP (HPTQ (N*M*M))	T
4500	6.2 9.73	0.54
4729	7.6 11.46	0.72
4750	7.6 11.38	0.76
5000	7.8 10.99	0.98
5250	8.2 11.07	1.18
5500	8.8 11.33	1.40
5750	8.9 10.93	1.60
6000	9.4 11.12	1.82
6250	9.7 10.99	2.04
6500	9.6 10.41	2.26
6750	9.4 9.87	2.50
7000	9.5 9.62	2.74
7250	9.6 9.36	3.00
7389	10.1 9.64	3.12
7500	9.7 9.12	3.24
7750	9.5 8.64	3.52
8000	9.5 8.42	3.80
8250	9.4 8.03	4.10
8500	8.8 7.35	4.42
8750	8.6 6.94	4.78
9000	8.5 6.68	5.14
9250	8.2 6.29	5.54

LOSSES: 0.0 HP 0.0N*M*M
 TOTAL ENGINE: 10.1HP 11.46N*M*M





TEST NAME	MAX POWER	MAX TORQUE	Temp. °C	Humidity %	Pressure	KMH	Date/Time
UMY TEST SUPRA FI T004	10.0 (10.0) / 7465	11.43 (11.43) / 5726	31.2 °C	41 %	1000.0 mbar	98.8	15/06/2015 14:35:16



DATA FOR TEST: UMY TEST SUPRA FI T004

Comments
BASE

RPM	HP (HPTQ (N*M*M))	T
4500	6.5	10.19
4750	7.5	11.16
5000	7.9	11.17
5250	8.3	11.17
5500	8.5	10.97
5726	9.2	11.43
5750	9.2	11.35
6000	9.3	11.00
6250	9.3	10.53
6500	9.5	10.34
6750	9.7	10.21
7000	9.9	10.00
7250	9.9	9.71
7465	10.0	9.47
7500	9.8	9.27
7750	9.6	8.75
8000	9.0	7.99
8250	9.2	7.84
8500	8.8	7.29
8750	8.5	6.89
9000	8.3	6.53
9250	8.1	6.17

LOSSES: 0.0 HP 0.0N*M*M
TOTAL ENGINE: 10.0HP 11.43N*M*M

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIML CLASS 0
REPORT N.
545/DIML/04/RM
10/07/2004

0 [l/min]
6.293 [% vol]
4.18 [% vol]
9399 [ppm vol]
9.35 [% vol]
---- [ppm vol]
---- [% vol]
0.845 [-]
--- [°C]

ENVIRONMENT CONDITIONS

Temperature 39 [°C]
Pressure 987 [hPa]
Humidity 31 [%HR]
DATE: 25/06/2015
TIME: 12:33

CAR DATA

FUEL: GASOLINE

BRAND: RC

MODEL: PREMIUM

LIC. PLATE:

CHASSIS:

Km: 21464

WORKSHOP

ROTOMOTIF

AFT-UNY

VANDIKUOTO

RA

EXAMINER: HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIML CLASS 0
REPORT N.
545/DIML/04/RM
10/07/2004

R P M 0 [l/min]
C O 5.995 [% vol]
C O 2 3.64 [% vol]
H C 9017 [ppm vol]
O 2 9.99 [% vol]
N O ---- [ppm vol]
CO cor ---- [% vol]
λ 0.887 [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 39 [°C]
Pressure 986 [hPa]
Rel. Humidity 31 [%HR]
DATE: 25/06/2015
TIME: 12:31

CAR DATA

FUEL: GASOLINE

BRAND: RC

MODEL: PREMIUM

LIC. PLATE:

CHASSIS:

Km: 21464

WORKSHOP

ROTOMOTIF

AFT-UNY

VANDIKUOTO

RA

EXAMINER: HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
TYPE STARGAS 898
DIML CLASS 0
REPORT N.
545/DIML/04/RM
10/07/2004

R P M 0 [l/min]
C O 5.081 [% vol]
C O 2 3.09 [% vol]
H C 2244 [ppm vol]
O 2 11.76 [% vol]
N O -- [ppm vol]
CO cor ---- [% vol]
λ 0.951 [-]
TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 39 [°C]
Pressure 987 [hPa]
Rel. Humidity 31 [%HR]
DATE: 25/06/2015
TIME: 12:29

CAR DATA

FUEL: GASOLINE

BRAND: RC

MODEL: PREMIUM

LIC. PLATE:

CHASSIS:

Km: 21464

WORKSHOP

ROTOMOTIF

AFT-UNY

VANDIKUOTO

RA

EXAMINER: HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
 TYPE STARGAS 898
 DIML CLASS 0
 REPORT N.
 545/DIML/04/RM
 10/07/2004

R P M 0 [1/min]
 5.489 [% vol]
 9.47 [% vol]
 253 [ppm vol]
 2.51 [% vol]
 ---- [ppm vol]
 5.504 [% vol]
 0.930 [-]
 --- [°C]

ENVIRONMENT CONDITIONS

Temperature 39 [°C]
 Pressure 987 [hPa]
 Humidity 31 [%HR]
 25/06/2015
 12:24

CAR DATA

FUEL: GASOLINE

BRAND:

SUPRA

MODEL:

PREMIUM

WORKSHOP

AUTOMOTIF

AFT-UNY

VANDIKUOTO

EXAMINER:

HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
 TYPE STARGAS 898
 DIML CLASS 0
 REPORT N.
 545/DIML/04/RM
 10/07/2004

R P M 0 [1/min]
 CO 0.415 [% vol]
 CO 2 11.84 [% vol]
 HC 140 [ppm vol]
 O 2 3.75 [% vol]
 NO ---- [ppm vol]
 CO cor 0.507 [% vol]
 λ 1.187 [-]
 TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 39 [°C]
 Pressure 987 [hPa]
 Rel. Humidity 31 [%HR]
 DATE: 25/06/2015
 TIME : 12:22

CAR DATA

FUEL: GASOLINE

BRAND:
 SUPRA

MODEL:
 PREMIUM

LIC. PLATE:

CHASSIS:

Km:
 67544

WORKSHOP

AUTOMOTIF

AFT-UNY

VANDIKUOTO

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EXAMINER:

HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
 TYPE STARGAS 898
 DIML CLASS 0
 REPORT N.
 545/DIML/04/RM
 10/07/2004

R P M 0 [1/min]
 CO 0.844 [% vol]
 CO 2 9.95 [% vol]
 HC 698 [ppm vol]
 O 2 6.25 [% vol]
 NO ---- [ppm vol]
 CO cor 1.172 [% vol]
 λ 1.312 [-]
 TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 39 [°C]
 Pressure 987 [hPa]
 Rel. Humidity 31 [%HR]
 DATE: 25/06/2015
 TIME : 12:19

CAR DATA

FUEL: GASOLINE

BRAND:
 SUPRA

MODEL:
 PREMIUM

LIC. PLATE:

CHASSIS:

Km:
 67544

WORKSHOP

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EXAMINER:

HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
 TYPE STARGAS 898
 OIML CLASS 0
 REPORT N.
 545/OIML/04/RM
 10/07/2004

R P M 0 [1/min]
 CO 4.282 [% vol]
 CO 2 11.47 [% vol]
 HC 272 [ppm vol]
 O 2 0.82 [% vol]
 NO ---- [ppm vol]
 CO cor 4.282 [% vol]
 λ 0.899 [-]
 TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 34 [°C]
 Pressure 989 [hPa]
 Humidity 38 [%HR]
 DATE: 25/06/2015
 TIME: 11:22

CAR DATA

FUEL: GASOLINE
 BRAND: YAMAHAVEGAZR
 MODEL: PREMIUM
 LIC. PLATE:
 CHASSIS:

WORKSHOP

MOTIF
 UNY
 VANDIKUOTO

EXAMINER:

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
 TYPE STARGAS 898
 OIML CLASS 0
 REPORT N.
 545/OIML/04/RM
 10/07/2004

R P M 0 [1/min]
 CO 5.453 [% vol]
 CO 2 9.26 [% vol]
 HC 1119 [ppm vol]
 O 2 2.77 [% vol]
 NO ---- [ppm vol]
 CO cor 5.559 [% vol]
 λ 0.910 [-]
 TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 34 [°C]
 Pressure 989 [hPa]
 Rel. Humidity 40 [%HR]
 DATE: 25/06/2015
 TIME: 11:21

CAR DATA

FUEL: GASOLINE
 BRAND: YAMAHAVEGAZR
 MODEL: PREMIUM
 LIC. PLATE:
 CHASSIS:

Km:
 31351

WORKSHOP

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EXAMINER:
HADI

EXHAUST GAS ANALYSIS

Serial nr. 1711960

TECNOTEST
 TYPE STARGAS 898
 OIML CLASS 0
 REPORT N.
 545/OIML/04/RM
 10/07/2004

R P M 0 [1/min]
 CO 7.601 [% vol]
 CO 2 6.19 [% vol]
 HC 1968 [ppm vol]
 O 2 5.47 [% vol]
 NO ---- [ppm vol]
 CO cor 8.267 [% vol]
 λ 0.915 [-]
 TEMP. --- [°C]

ENVIRONMENT CONDITIONS

Temperature 33 [°C]
 Pressure 990 [hPa]
 Rel. Humidity 41 [%HR]
 DATE: 25/06/2015
 TIME: 11:15

CAR DATA

FUEL: GASOLINE
 BRAND: YAMAHAVEGAZR
 MODEL: PREMIUM
 LIC. PLATE:
 CHASSIS:

Km:
 31351

WORKSHOP

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 UNY
 VANDIKUOTO

AA

EXAMINER:
HADI