

LAMPIRAN



Lampiran 1. Campuran bahan bakar pertalite dengan bahan bakar limbah plastik



Lampiran 2 Pertalite murni



Lampiran 3. 500 ml campuran pertalite dengan minyak dari limbah plastik perbandingan 80:20



Lampiran 4. 500 ml campuran pertalite dengan minyak dari limbah plastik perbandingan 60:40



Lampiran 5. Dynotest motor Supra X 125



Lampiran 6. HASIL DYNOTES PERTALITE MURNI

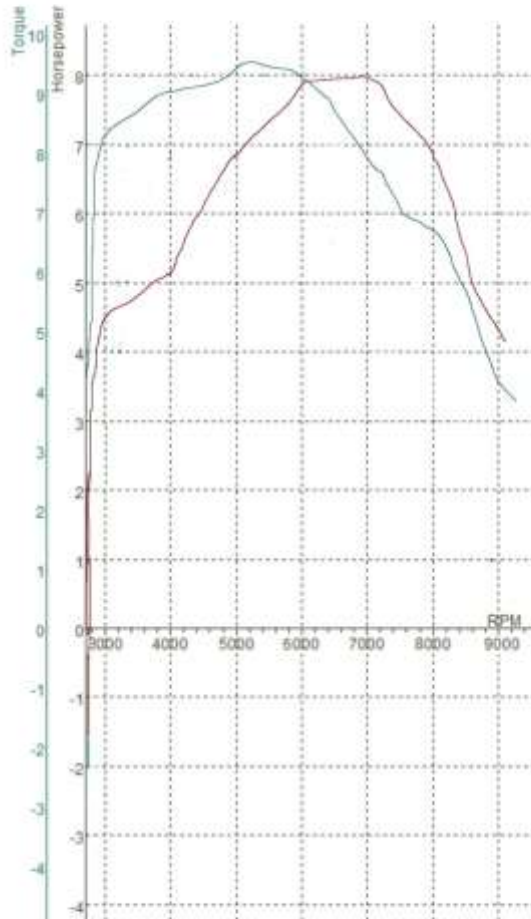




SPORTDYN V3.7
 DYNAMOMETER: ID325
 ROLLER INERTIA: 4.5

Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PERTALITE002	8.0 / 7000	9.42 / 5000	104.5	33.0	65	1002.0	1/1/2008 1:39:23 AM



DATA FOR TEST: SUPRA PERTALITE002

RPM	HP (HP)	TQ (N*M)	TQ Horsepower (HP)
3000	4.5	8.39	1828.5
4000	5.1	8.91	3807.8
5000	6.9	9.42	5125.9
6000	7.9	9.09	5901.0
7000	8.0	7.94	5972.2
8000	7.2	6.45	4277.8
9000	6.0	4.49	3258.6

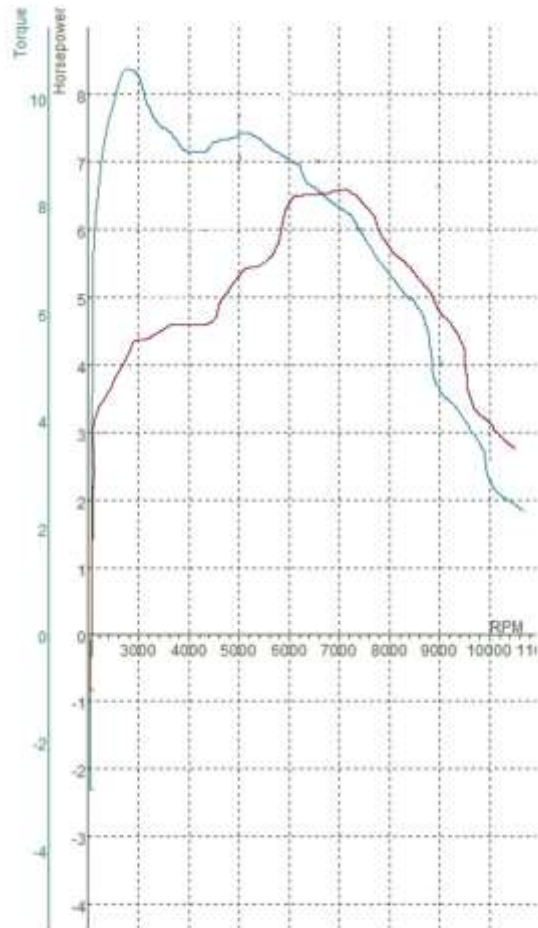
LOSSES: 0.0 HP 0.0N*M
 TOTAL ENGINE: 8.0HP 9.42N*M



SPORTDYNO V3.7
 DYNAMOMETER: ID325
 ROLLER INERTIA: 4.6

Displacement Correction:
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PERTALITE0003	8.2 / 7000	10.05 / 3000	104.2	33.0	65	1002.0	14/2008 2:4 9:03 AM



DATA FOR TEST: SUPRA PERTALITE0003

RPM	HP (HP)	TQ (N*M)	Horsepower (HP)
3000	4.5	10.05	3554.8
4000	5.6	9.59	4208.2
5000	7.1	9.68	5268.7
6000	8.1	9.30	6034.8
7000	8.2	8.08	6089.7
8000	7.7	6.70	5741.1
9000	6.5	5.05	4850.4
10000	4.4	3.07	3260.9

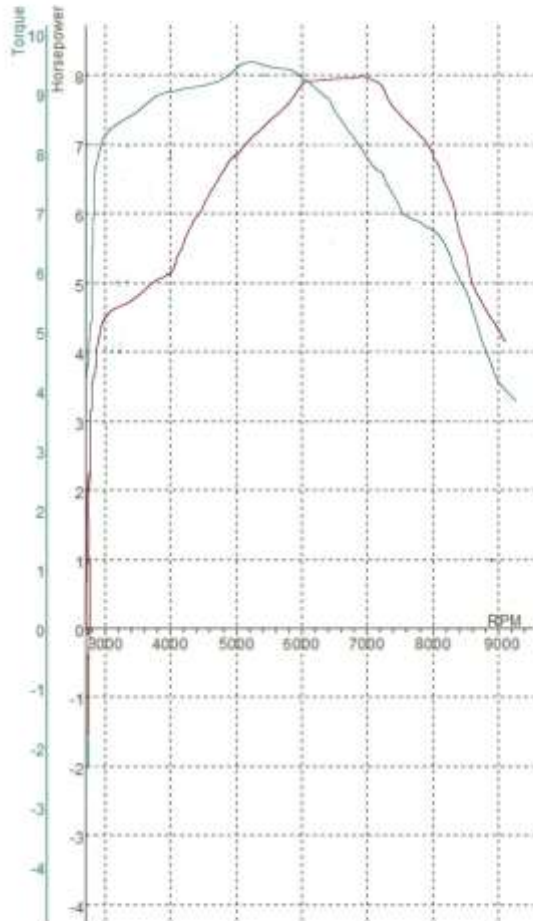
LOSSES 0.0 HP 0.00 N*M
 TOTAL ENGINE 8.2 HP 10.05 N*M



SPORTDYN V3.7
 DYNAMOMETER: ID325
 ROLLER INERTIA: 4.5

Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PERTALITE0004	8.0 / 7000	9.42 / 5000	104.5	33.0	65	1002.0	1/1/2008 1:39:23 AM



DATA FOR TEST: SUPRA PERTALITE0004

RPM	HP (HP)	TQ (N*M)	TQ Horsepower (HP)
3000	4.4	8.30	1828.5
4000	5.4	8.93	3807.8
5000	6.9	9.42	5125.9
6000	7.9	9.0	5901.0
7000	8.0	7.92	5972.2
8000	7.4	6.45	4277.8
9000	5.5	4.49	3258.6
LOSSES		0.0 HP	0.0 N*M
TOTAL ENGINE:		8.0 HP	9.42 N*M

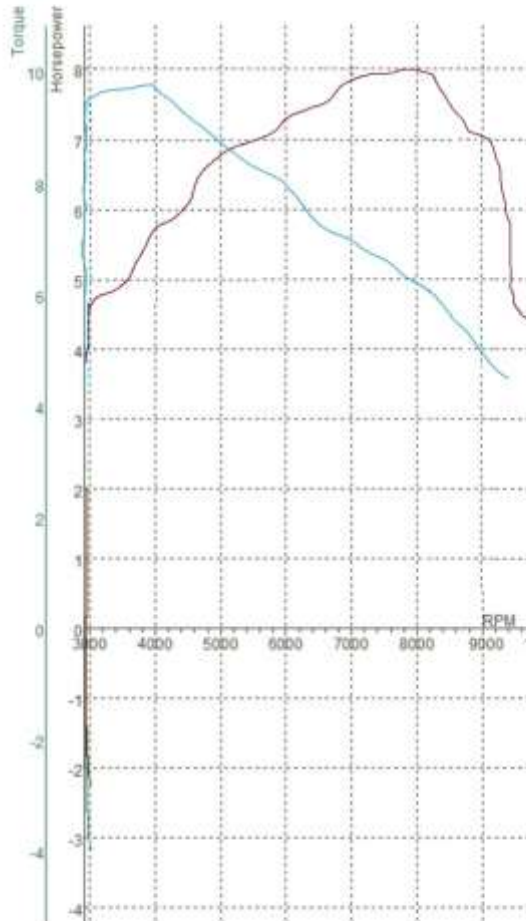




SPORTDYNO V3.7
 DYNAMOMETER: ED325
 ROLLER INERTIA: 4.6

Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PERTALITE0005	8.0 / 8000	9.40 / 3000	105.1	33.0	63	1002.0	1/4/2008 2:5 0:35 AM



DATA FOR TEST SUPRA PERTALITE0005

RPM	HP (HP)	TQ (N*M)	Horsepower (HP)
3000	4.7	9.40	3350.0
4000	5.8	8.82	4208.2
5000	6.8	8.82	5044.3
6000	7.3	8.36	5410.1
7000	7.8	7.70	5794.5
8000	8.0	6.92	5928.2
9000	7.3	5.50	5280.5
10000	6.8	3.21	3407.5

LOSSES 0.0 HP 0.0N*M
 TOTAL ENGINE: 8.0HP 9.40N*M



Lampiran 7. HASIL DYNOTEST 500 ML CAMPURAN PERTALITE
DENGAN BAHAN BAKAR DARI LIMBAH PLASTIK
PERBANDINGAN 80:20

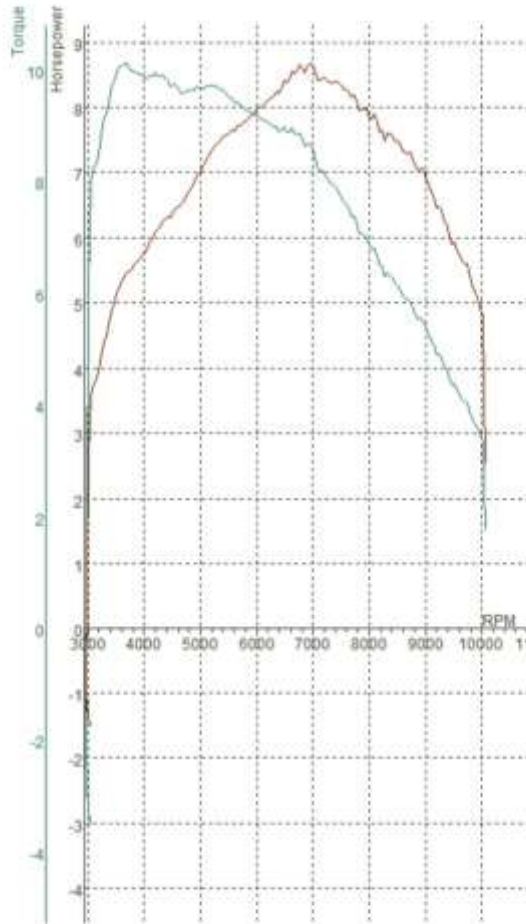




SPORTDYNO V3.7
 DYNAMOMETER: ED323
 ROLLER INERTIA: 4.6

Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
FERTALITE CAMPUR0002	8.6 / 7000	10.04 / 3000	104.7	33.0	63	1002.0	14/2008 2:4 9:34 AM



DATA FOR TEST: FERTALITE CAMPUR0002

RPM	HP (HP)	TQ (N*M)	TQ Horsepower (HP)
3000	5.2	10.04	3880.9
4000	5.8	9.82	4305.2
5000	7.1	9.67	5254.4
6000	8.4	9.16	5942.6
7000	8.6	8.50	6398.0
8000	7.8	6.80	5806.1
9000	6.9	5.32	5107.1
10000	4.8	3.37	3576.2

LOSSES 0.0 HP 0.0N*M
 TOTAL ENGINE: 8.6HP 10.04N*M

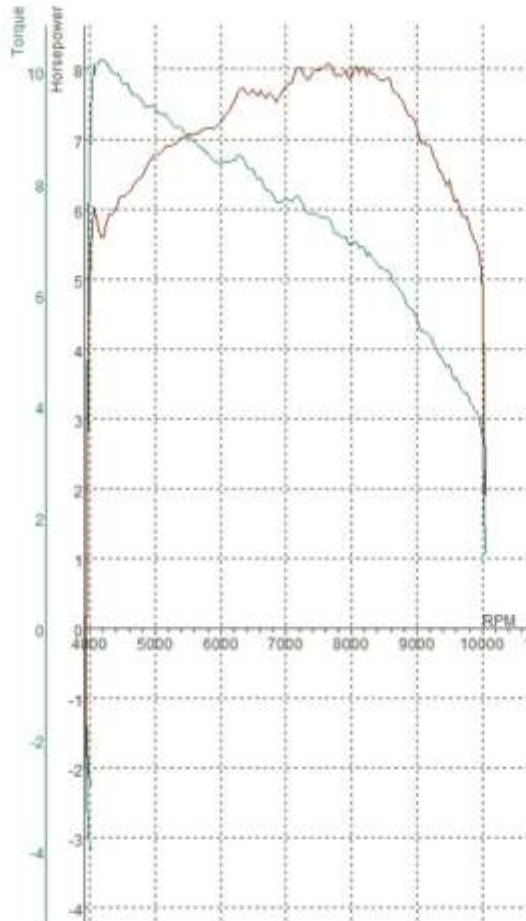




SPORTDYN V3.7
 DYNAMOMETER: ED323
 ROLLER INERTIA: 4.6

Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
PERTALITE CAMPUR0003	8.1 / 8000	9.40 / 4500	105.1	33.0	63	1002.0	1/4/2008 2:5 0:35 AM



DATA FOR TEST: PERTALITE CAMPUR0003

RPM	HP (HP)	TQ (N*M)	Horsepower (HP)
3000	5.1	10.21	3350.0
4000	5.8	8.92	4208.2
5000	6.8	9.40	5044.5
6000	7.3	8.82	5410.1
7000	7.8	7.70	5794.5
8000	8.1	6.92	5928.2
9000	7.1	5.50	5280.5
10000	4.6	3.21	3407.5

LOSSES: 0.0 HP 0.00 N*M
 TOTAL ENGINE: 8.1 HP 9.40 N*M





SPORTDYNO V3.7
 DYNAMOMETER: ID325
 ROLLER INERTIA: 4.6

Displacement Correction:
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
PERTALITE CAMPUR0004	8.2 / 7000	10.05 / 3000	104.2	33.0	65	1002.0	14/2008 2:4 9:03 AM

DATA FOR TEST: PERTALITE CAMPUR0004

RPM	HP (HP)	TQ (N*M)	HP (HP)
3000	4.5	10.05	3354.8
4000	5.6	9.86	4208.2
5000	7.1	9.68	5268.7
6000	8.1	9.52	6054.8
7000	8.2	8.08	6089.7
8000	7.7	6.60	5741.1
9000	6.5	5.05	4850.4
10000	4.4	3.07	3260.9

LOSSES: 0.0 HP 0.0N*M
 TOTAL ENGINE: 8.2 HP 10.05N*M





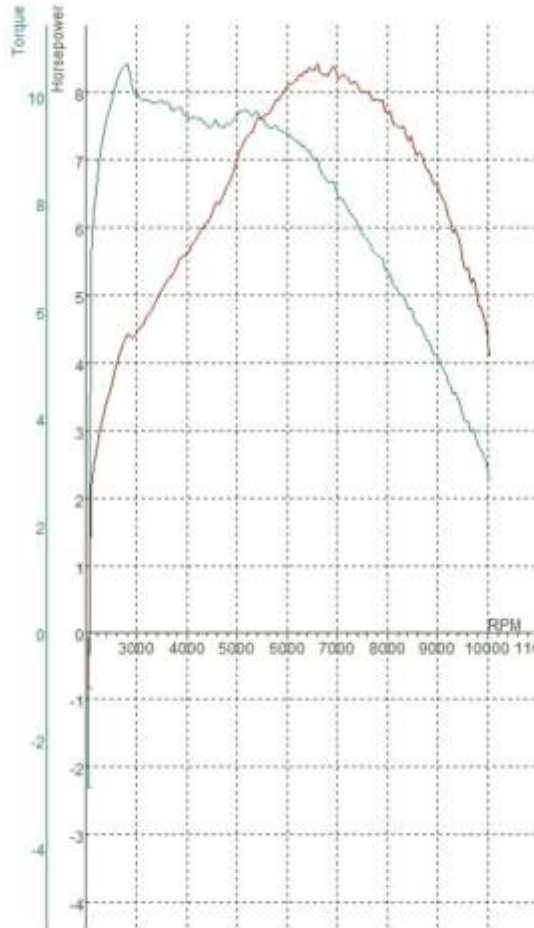
SPORTDYNO V3.7
 DYNAMOMETER: ID325
 ROLLER INERTIA: 4.6

Displacement Correction:
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
PERTALITE CAMPUR0005	8.3 / 7000	10.25 / 3000	104.2	33.0	65	1002.0	14/2008 2:4 9:03 AM

DATA FOR TEST: PERTALITE CAMPUR0005

RPM	HP (HP)	TQ (N*M)	Horsepower (HP)
3000	4.5	10.25	3354.8
4000	5.6	9.59	4208.2
5000	7.1	9.68	5268.7
6000	8.1	9.30	6034.8
7000	8.3	8.08	6089.7
8000	7.7	6.70	5741.1
9000	6.5	5.05	4850.4
10000	4.4	3.07	3260.9



LOSSES 0.0 HP 0.00N*M
 TOTAL ENGINE: 8.3HP 10.05N*M

Lampiran 8. HASIL DYNOTEST 500 ML CAMPURAN PERTALITE DENGAN BAHAN BAKAR LIMBAH PLASTIK PERBANDINGAN 60:40

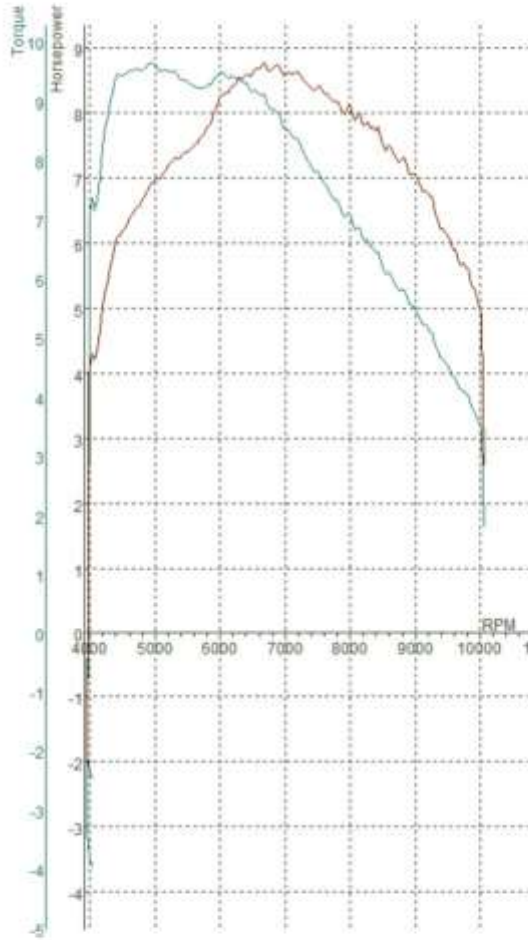




SPORTDYNO V3.7
 DYNAMOMETER: ED323
 ROLLER INERTIA: 4.6

Displacement Correction:
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date-Time
SUPRA PERTALITE CAMPUR PLASTIK0002	8.6 / 7000	9.45 / 5000	105.0	33.0	63	1002.0	14/2008 2:50:01 AM



DATA FOR TEST: SUPRA PERTALITE CAMPUR PLASTIK0002

RPM	HP (HP)	TQ (N*M)	Horsepower (HP)
3000	4.5	9.30	3265.2
4000	5.6	8.81	3807.8
5000	7.0	9.45	5217.8
6000	8.3	9.19	6171.8
7000	8.6	7.79	6413.3
8000	8.1	7.00	5997.4
9000	7.0	5.44	5220.9
10000	4.9	3.44	3654.4

LOSSES: 0.0 HP 0.05 N*M
TOTAL ENGINE: 8.6 HP 9.45 N*M



SPORTDYN0 V3.7
 DYNAMOMETER: SD325
 ROLLER INERTIA: 4,6

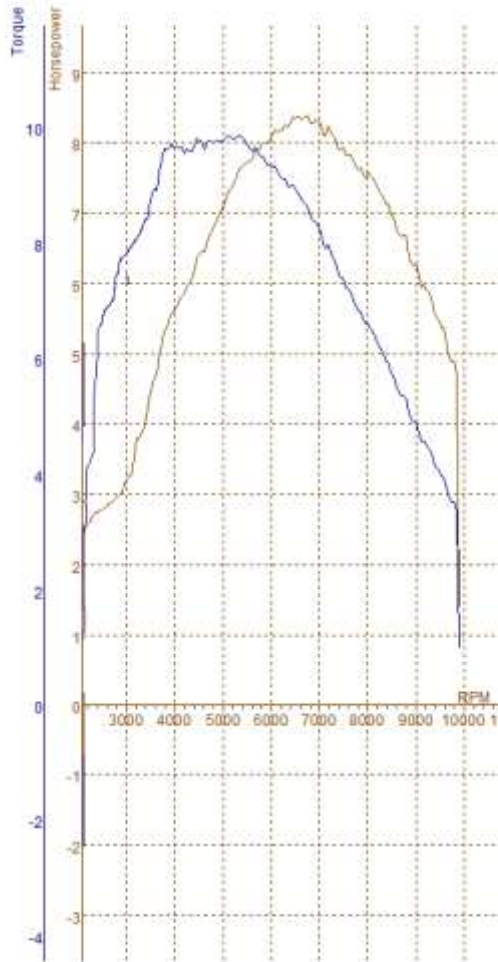
Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PERTALITE CAMPUR PLASTIK003	8.2 / 7000	9.06 / 4000	104.6	33.0	63	1002.0	1/1/2008 1:49:58 AM

DATA FOR TEST: SUPRA PERTALITE CAMPUR PLASTIK003

RPM	HP (HP)	TQ (N*M)
3000	4.6	8.89
4000	5.7	9.06
5000	7.2	9.81
6000	8.1	9.32
7000	8.2	8.15
8000	7.6	6.59
9000	6.2	4.82
10000	5.0	3.75

LOSSIS 0.0 HP 0.0N*M
 TOTAL ENGINE 8.2 HP 9.06 N*M

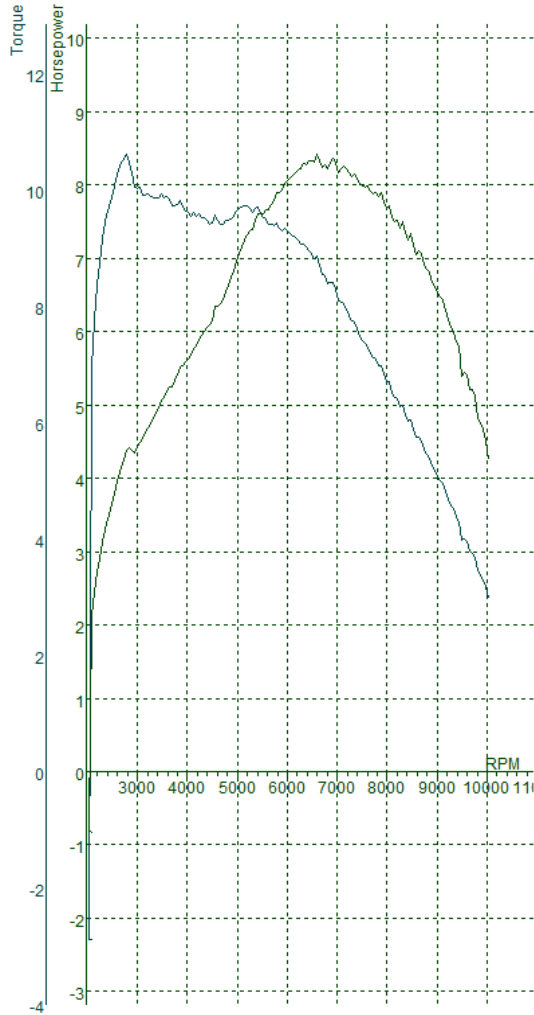




SPORTDYNO V3.7
 DYNAMOMETER: SD325
 ROLLER INERTIA: 4,6

Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PERTALITE CAMPUR PLASTIK004	8.2 / 7000	9.86 / 3000	104.2	33.0	63	1002.0	1/4/2008 2:49:03 AM



DATA FOR TEST: SUPRA PERTALITE CAMPUR004

RPM	HP (HP)	TQ (N*M)	
3000	5.1	9.86	2,10
4000	5.6	9.59	3,24
5000	7.1	9.68	4,42
6000	8.1	9.30	5,60
7000	8.2	8.08	6,88
8000	7.7	6.70	8,40
9000	6.5	5.05	10,32
10000	4.4	3.07	13,12

LOSSES 0.0 HP 0.0N*M
 TOTAL ENGINE: 8.2 HP 9.86 N*M



SPORTDYNO V3.7
 DYNAMOMETER: SD315
 ROLLER INERTIA: 4,6

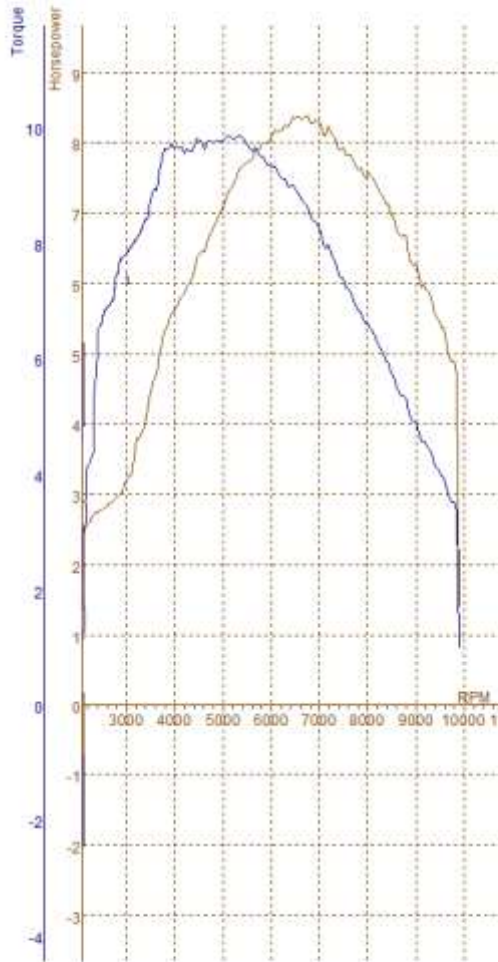
Displacement Correction
 Correction Factor: ISO 1585

Name	HP/rpm	N*M/rpm	KMH	Temp. (°C)	Humidity (%)	Pressure (mbar)	Date/Time
SUPRA PENTALITE CAMPUR PLASTIK005	8.4 / 7000	9.66 / 4000	104.6	33.0	63	1002.0	1/1/2008 1:49:58 AM

DATA FOR TEST: SUPRA PENTALITE CAMPUR005

RPM	HP (HP)	TQ (N*M)
5000	4.6	8.89
4000	5.7	9.66
5000	7.7	9.75
6000	8.2	9.64
7000	8.4	7.28
8000	7.9	6.59
9000	6.2	5.73
10000	5.0	5.75

LOSSES 0.0 HP 0.0 N*M
 TOTAL ENGINE: 8.4HP 9.66 N*M



RIWAYAT HIDUP



Anak Agung Gede Windhu Gandhi Putra, lahir di Denpasar 18 juli 1998. Peneliti lahir dari pasangan suami istri, Bapak Anak Agung Made Putra Susila dan Ibu Jro Ketut Suli. Peneliti berkebangsaan Indonesia dan beragama hindu. Peneliti tinggal bersama orang tua di Desa padangsambian kaja, Kecamatan Denpasar Barat, Kota Denpasar, Provinsi Bali. Peneliti mengenyam pendidikan Sekolah Dasar di SDN 8 Padangsambian kaja dari tahun 2004-2010, kemudian berlanjut kejenjang Sekolah Menengah Pertama di SMPN 5 Denpasar dari tahun 2010-2013, pada jenjang selanjutnya peneliti melanjutkan pendidikan di SMAN 7 Denpasar pada tahun 2013-2016, dan saat ini melanjutkan pendidikan di perguruan tinggi di Universitas Pendidikan Ganesha pada tahun 2016 dengan mengambil Program Studi S1 Pendidikan Teknik Mesin, Jurusan Teknologi Industri, Fakultas Teknik dan Kejuruan