

LAMPIRAN

Pertalite 100%

SPORTDYN V3.3
DYNAMOMETER: MOTOTECH
ROLLER INERTIA: 1.46

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

DATA FOR TEST: BEAT 110 T005

Comments
 PERTALITE 500ML

RPM	HP (HP)	HP (N*M*M)	T
250	0.0	0.00	0.54
500	0.3	4.05	0.64
750	1.4	14.25	0.74
1000	2.5	19.84	0.82
1250	3.9	23.25	0.92
1500	4.8	24.36	1.00
1750	6.1	25.39	1.10
1879	6.5	25.56	1.14
2000	6.8	24.88	1.20
2250	6.9	22.02	1.32
2500	7.1	20.29	1.44
2750	7.4	19.35	1.56
3000	7.7	18.51	1.68
3250	7.8	17.28	1.82
3500	7.9	15.98	1.98
3750	7.8	14.78	2.14
4000	7.7	13.63	2.32
4250	7.7	12.88	2.48
4500	7.9	12.51	2.66
4549	7.9	12.40	2.70
4750	7.7	11.53	2.88
5000	7.6	10.70	3.10
5250	7.4	10.04	3.32
5500	7.2	9.34	3.56
5750	7.1	8.73	3.84
6000	7.0	8.25	4.12
6250	6.9	7.82	4.40
6500	6.9	7.44	4.72
6750	6.6	6.88	5.04
7000	6.3	6.35	5.38
7250	6.3	6.31	5.74
7500	6.4	6.00	6.12
7750	6.2	5.69	6.52
8000	6.0	5.27	6.98
8250	5.6	4.77	7.46
8500	5.0	4.16	8.00

... (more)

TEST NAME: BEAT 110 T005 | MAX POWER: 1911.97/4349 | MAX TORQUE: 25.56 (25.56) / 1879 | Temp. °C: 29.3 °C | Humidity %: 54 % | Pressure: 1000.0 mbar | KMH: 95.1 | Date/Time: 24/08/2017 9:50:06

LOSSES: 0.0 HP | 0.0 N*M*M
 TOTAL ENGINE: 7.9 HP | 25.56 N*M*M

Mototech
Indonesia

Pusat Centre of Motorcycle Research Support
 Jl. Ringroad Selatan, Kemoran, Singaperan, Banguntapan,
 Kabupaten Geger, Kalimantan Tengah
 Telp. 1-42-294 6330303

Pertalite 95% vol.-PO 5% vol.

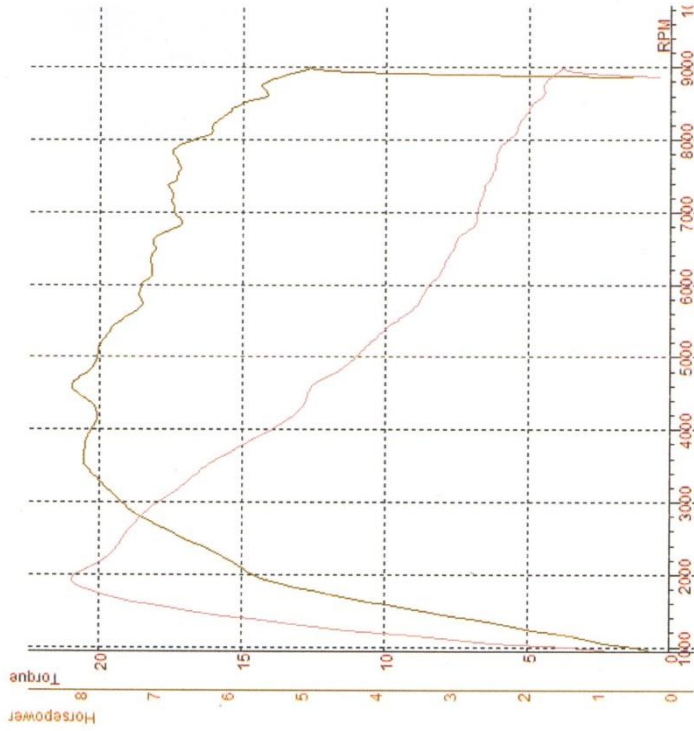


Daya Centre & Mototech Performance Support
 Jl. Ringroad Selatan, Kematen, Jingseren, Bonguntopan,
 Bantul, Yogyakarta, Indonesia
 Telp. +62 274 636903

SPORTIVO V33
DYNAMOMETER: MOTOTECH
ROLLER INERTIA: 1.46

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

TEST NAME: BEAT 110 T008
 MAX POWER: 8.1 (8.9) / 4607
 MAX TORQUE: 15.0
 Temp. °C: 30.3
 Humidity %: 40
 Pressure: 1000.0 mbar
 KMH: 93.4
 Date/Time: 24/08/2017 9:59:29



DATA FOR TEST: BEAT 110 T008
 Comments
 PERTALITE 475ML PYROLITIC OIL 25ML

RPM	HP (HP)	T (N*M)
1000	0.7	4.93
1250	2.1	12.50
1500	3.5	17.39
1750	4.9	20.34
1905	5.4	20.99
2000	5.7	20.68
2250	6.1	19.70
2500	6.6	19.18
2750	7.1	18.65
3000	7.5	17.79
3250	7.7	17.02
3500	7.9	16.28
3750	7.9	15.08
4000	7.8	13.97
4250	7.8	13.01
4500	8.0	12.72
4607	8.1	12.53
4750	7.9	11.88
5000	7.8	11.03
5250	7.7	10.34
5500	7.5	9.63
5750	7.1	8.80
6000	7.2	8.45
6250	7.0	7.95
6500	7.0	7.60
6750	6.8	7.07
7000	6.7	6.79
7250	6.7	6.59
7500	6.7	6.30
7750	6.7	6.11
8000	6.4	5.65
8250	6.1	5.24
8500	5.8	4.78
8750	5.5	4.46
9000	4.9	3.81

LOSSES: -0.8 HP
 TOTAL ENGINE: 8.9HP
 -0.6N*M*M
 21.64N*M*M

Pertalite 90% vol.-PO 10% vol.

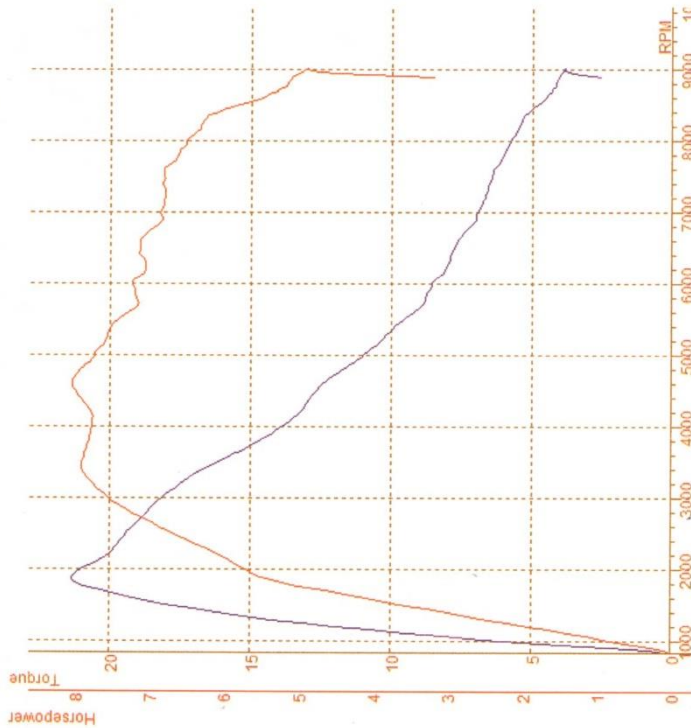


Lyne Centre & Mototech Research Support
 Jl. Ringroad Selatan, Kematan, Jingsaren, Banguntapan,
 Kabupaten Bantul, Yogyakarta
 Telp. +62 291 4519303

SPORTDYN V3.3
DYNAMOMETER: MOTOTECH
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
 BEAT 110 T011 | 8.0 (8.0) / 4598 | 21.37 (21.37) / 1882 | 31.0 °C | 38 % | 1000.0 mbar | 94.2 | 24/08/2017 10:08:24



DATA FOR TEST: BEAT 110 T011

Comments
 PERTALITE 450ML PYROLITIC OIL 50ML

RPM	HP (HP)	(N*M*M)	T
1000	0.9	6.72	0.60
1250	2.2	13.17	0.70
1500	3.6	17.78	0.80
1750	5.1	21.09	0.92
1882	5.4	21.37	0.96
2000	5.7	20.99	1.02
2250	6.2	19.89	1.14
2500	6.7	19.39	1.26
2750	7.2	18.76	1.38
3000	7.5	18.15	1.50
3250	7.8	17.24	1.64
3500	7.9	16.17	1.78
3750	7.8	14.89	1.94
4000	7.8	13.88	2.10
4250	7.8	13.10	2.28
4500	8.0	12.63	2.46
4598	8.0	12.46	2.52
4750	8.0	11.94	2.64
5000	7.7	10.96	2.86
5250	7.6	10.22	3.08
5500	7.4	9.53	3.32
5750	7.2	8.82	3.56
6000	7.2	8.52	3.84
6250	7.1	7.97	4.12
6500	7.1	7.75	4.40
6750	7.0	7.32	4.70
7000	6.9	6.92	5.02
7250	6.8	6.62	5.36
7500	6.8	6.41	5.70
7750	6.6	6.04	6.08
8000	6.5	5.74	6.48
8250	6.3	5.39	6.90
8500	5.8	4.80	7.40
8750	5.2	4.19	7.92
9000	4.9	3.83	8.52

LOSSES: 0.0 HP
 TOTAL ENGINE: 8.0HP
 0.0N*M*M
 21.37N*M*M

Pertalite 80% vol.-PO 20% vol.

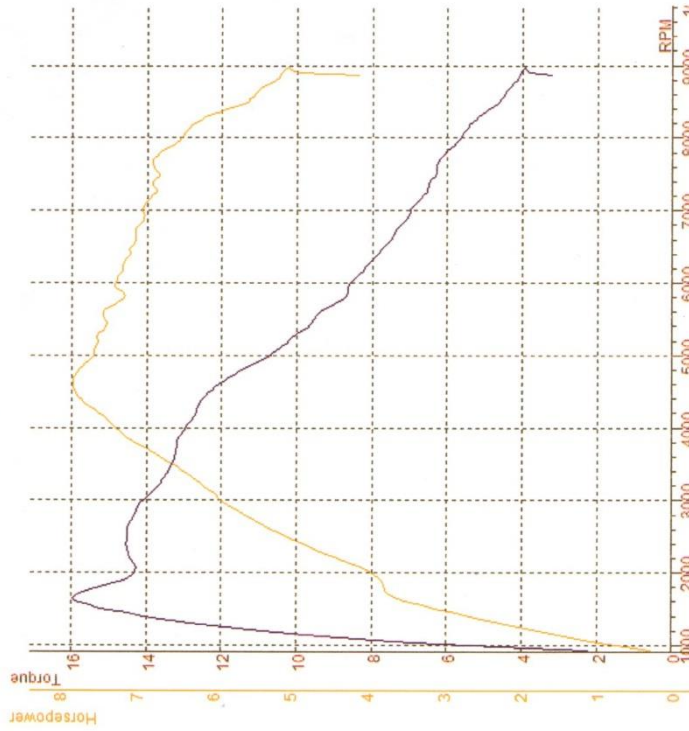


Dyna Centre & Motorecycle Research Support
 Jl. Ringroad Selatan, Kemaman, Jember, Indonesia
 Telp. +62 391 853433

SPORTDYN V3.3
 DYNAMOMETER: MOTOTECH
 ROLLER INERTIA: 1.446

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

TEST NAME: MAX POWER: 7.81 (8.7) / 6442
 BEAT 110 T013
 MAX TORQUE: 15.98 (15.98) / 1641
 Temp. °C: 31.6 °C
 Humidity %: 34 %
 Pressure: 1000.0 mbar
 KMH: 93.5
 Date/Time: 24/08/2017 10:16:19



DATA FOR TEST: BEAT 110 T013

Comments
 PERTALITE 400ML PYROLITIC OIL 100ML

RPM	HP (HP) (N*M*M)	T
1000	0.8	5.75
1250	2.2	12.53
1500	3.1	15.22
1641	3.6	15.98
1750	3.7	15.49
2000	4.0	14.28
2250	4.5	14.48
2500	5.1	14.51
2750	5.5	14.34
3000	5.9	14.02
3250	6.2	13.59
3500	6.5	13.31
3750	7.0	13.20
4000	7.3	12.94
4250	7.6	12.66
4500	7.8	12.29
4642	7.8	11.69
4750	7.8	11.60
5000	7.3	10.65
5250	7.3	10.11
5500	7.4	9.54
5750	7.2	8.82
6000	7.2	8.54
6250	7.2	8.09
6500	7.1	7.67
6750	7.0	7.32
7000	6.9	6.98
7250	6.7	6.55
7500	6.7	6.31
7750	6.7	6.12
8000	6.4	5.64
8250	6.1	5.23
8500	5.5	4.59
8750	5.3	4.23

LOSSES: 0.0 HP
 TOTAL ENGINE: 7.8HP
 0.0N*M*M
 15.98N*M*M

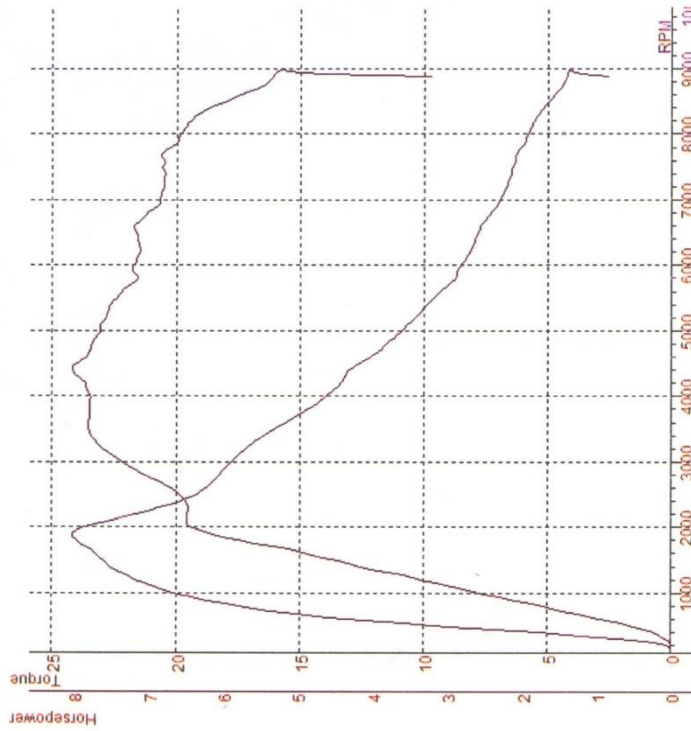
Pertalite 70% vol.-PO 30% vol.



SPORTDINO V33
DYNAMOMETER: MOTOTECH
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
BEAT 110 T017 | 8.0 (8.0)/4417 | 24.19 (22.00)/1899 | 32.9 °C | 26% | 1000.0 mbar | 93.6 | 24/08/2017 10:44:49



DATA FOR TEST: BEAT 110 T017

Comments
PERTALITE 350ML PYROLITIC OIL 150ML

RPM	HP (HP@Q)	(N*M*M)	T
250	0.0	1.10	0.58
500	0.7	10.78	0.70
750	1.7	17.17	0.80
1000	2.7	20.44	0.90
1250	3.6	21.98	0.98
1500	4.7	23.08	1.08
1750	5.6	23.85	1.16
1899	6.2	24.19	1.22
2000	6.5	23.48	1.28
2250	6.5	20.70	1.40
2500	6.6	19.02	1.52
2750	7.0	18.28	1.64
3000	7.4	17.72	1.76
3250	7.7	16.94	1.90
3500	7.8	15.99	2.04
3750	7.8	14.82	2.20
4000	7.8	13.89	2.36
4250	7.9	13.23	2.54
4417	8.0	12.96	2.64
4500	7.9	12.50	2.72
4750	7.8	11.63	2.90
5000	7.7	10.84	3.12
5250	7.5	10.17	3.34
5500	7.4	9.56	3.56
5750	7.2	8.88	3.82
6000	7.2	8.48	4.08
6250	7.1	8.06	4.34
6500	7.2	7.79	4.64
6750	7.0	7.36	4.94
7000	6.9	6.93	5.24
7250	6.8	6.62	5.58
7500	6.8	6.43	5.92
7750	6.8	6.15	6.28
8000	6.6	5.80	6.66
8250	6.4	5.48	7.08
8500	6.0	4.95	7.52

... (more)

LOSSES: 0.1HP 2.2N*M*M
TOTAL ENGINE: 8.0HP 22.00N*M*M

Hasil Pengujian Nilai Torsi Bahan Bakar Campuran Pertalite dan *Pyrolitic Oil*.

TORSI						
No	RPM	Pertalite 100%	Pertalite 95% vol.- PO 5% vol.	Pertalite 90% vol.- PO 10% vol.	Pertalite 80% vol.- PO 20% vol.	Pertalite 70% vol.- PO 30% vol.
1	2000	25,56	20,99	21,37	15,49	24,19
2	2250	24,88	20,68	20,99	14,28	23,48
3	2500	22,02	19,7	19,89	14,48	20,7
4	2750	20,29	19,18	19,325	14,51	19,02
5	3000	19,35	18,65	18,76	14,34	18,28
6	3250	18,51	17,79	18,15	14,02	17,72
7	3500	17,28	17,02	17,24	13,59	16,94
8	3750	15,98	16,26	16,17	13,31	15,99
9	4000	14,78	15,08	14,89	13,2	14,82
10	4250	13,63	13,97	13,88	12,94	13,89
11	4500	12,88	13,01	13,1	12,66	13,23
12	4549	12,51	12,72	12,63	12,29	12,96
13	4750	12,4	12,53	12,46	11,99	12,5
14	4900	11,53	11,88	11,94	11,6	11,63
15	5000	10,7	11,03	10,96	10,65	10,84
16	5250	10,04	10,34	10,22	10,11	10,17
17	5500	9,34	9,63	9,53	9,54	9,56
18	5750	8,73	8,8	8,82	8,82	8,81
19	6000	8,25	8,45	8,85	8,54	8,48
20	6250	7,82	7,95	7,97	8,09	8,06
21	6500	7,44	7,6	7,75	7,67	7,79
22	6750	6,88	7,07	7,32	7,32	7,36
23	7000	6,55	6,79	6,92	6,98	6,93
24	7250	6,31	6,59	6,62	6,55	6,62
25	7500	6	6,3	6,41	6,31	6,43
26	7750	5,69	6,11	6,04	6,12	6,15
27	8000	5,27	5,65	5,74	5,64	5,8
28	8250	4,77	5,24	5,39	5,23	5,48
29	8500	4,16	4,78	4,8	4,59	4,95

Hasil Pengujian Nilai Daya Bahan Bakar Campuran Pertalite dan *Pyrolitic Oil*.

Daya (Hp)						
No	RPM	Pertalite 100%	Pertalite 95% vol.- PO 5% vol.	Pertalite 90% vol.- PO 10% vol.	Pertalite 80% vol.- PO 20% vol.	Pertalite 70% vol.- PO 30% vol.
1	2000	6,8	5,7	5,7	4	6,5
2	2250	6,9	6,1	6,2	4,5	6,5
3	2500	7,1	6,6	6,7	5,1	6,6
4	2750	7,4	7,1	7,2	5,5	7
5	3000	7,7	7,5	7,5	5,9	7,4
6	3250	7,8	7,7	7,8	6,2	7,7
7	3500	7,9	7,9	7,9	6,5	7,8
8	3750	7,8	7,9	7,8	7	7,8
9	4000	7,7	7,8	7,8	7,3	7,8
10	4250	7,7	7,8	7,8	7,6	7,9
11	4500	7,9	8	8	7,8	8
12	4750	7,9	8,1	8	7,8	7,9
13	5000	7,7	7,9	8	7,8	7,8
14	5250	7,6	7,8	7,7	7,5	7,7
15	5500	7,4	7,7	7,6	7,5	7,5
16	5600	7,2	7,5	7,4	7,4	7,4
17	5700	7,1	7,1	7,2	7,2	7,2
18	5750	7	7,2	7,2	7,2	7,2
19	6000	6,9	7	7,1	7,2	7,1
20	6250	6,9	7	7,1	7,1	7,2
21	6500	6,6	6,8	7	7	7
22	6750	6,5	6,7	6,9	6,9	6,9
23	7000	6,5	6,7	6,8	6,7	6,8
24	7250	6,4	6,7	6,8	6,7	6,8
25	7500	6,2	6,7	6,6	6,7	6,8
26	7750	6	6,4	6,5	6,4	6,6
27	8000	5,6	6,1	6,3	6,1	6,4
28	8250	5	5,8	5,8	6,5	6

Hasil Konsumsi Bahan Bakar.

Variasi Bahan Bakar	Jarak tempuh (km)	Volume BBM (Liter)	Konsumsi BBM (Km/Liter)
Pertalite 100%	5	0,25	20,00
Pertalite 95% vol.-PO 5% vol.	5	0,15	33,33
Pertalite 90% vol.-PO 10% vol.	5	0,145	34,48
Pertalite 80% vol.-PO 20% vol.	5	0,14	35,71
Pertalite 70% vol.-PO 30% vol.	5	0,13	38,46