



PERFORMANCE BEYOND LIMITS

ENGINE DATA 3W-684IB4 TS





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SPECIFICATIONS

| | |
|--------------------|---------------------------------|
| Cylinder Capacity | 684 ccm / 41.73 cu in |
| Power | 54 HP / 40.00 KW |
| Bore Diameter | 2.6 inch (66.00 mm) |
| Stroke | 1.97 inch (50.00 mm) |
| Speed Range | 1200 - 7500 RPM |
| Weight | 36.04 lbs (16.40 kg) incl. ign. |
| Crankshaft | 6 ball bearing |
| Oil/Gasoline Ratio | 1:50 / 2% mix |
| Operating voltage | 6 - 8.4 V DC |
| Torque | 51.16 Nm / 7350 RPM |
| kW/RPM | 40.00 KW / 7350 rpm |

ENGINE TYPE / SETUP

| | |
|--------------------------|-----------------------|
| Engine | 3W-684iB4 TS |
| Serial No. | 153192K |
| Direction | tractor |
| Muffler | Zimmermann tuned pipe |
| Fuel | Aspen |
| Date | 18.03.2016 |
| Running time before test | 8 hours |
| Throttle position | variable |
| Propeller | 3W 3D CFK |

Engine data based on test run according to:

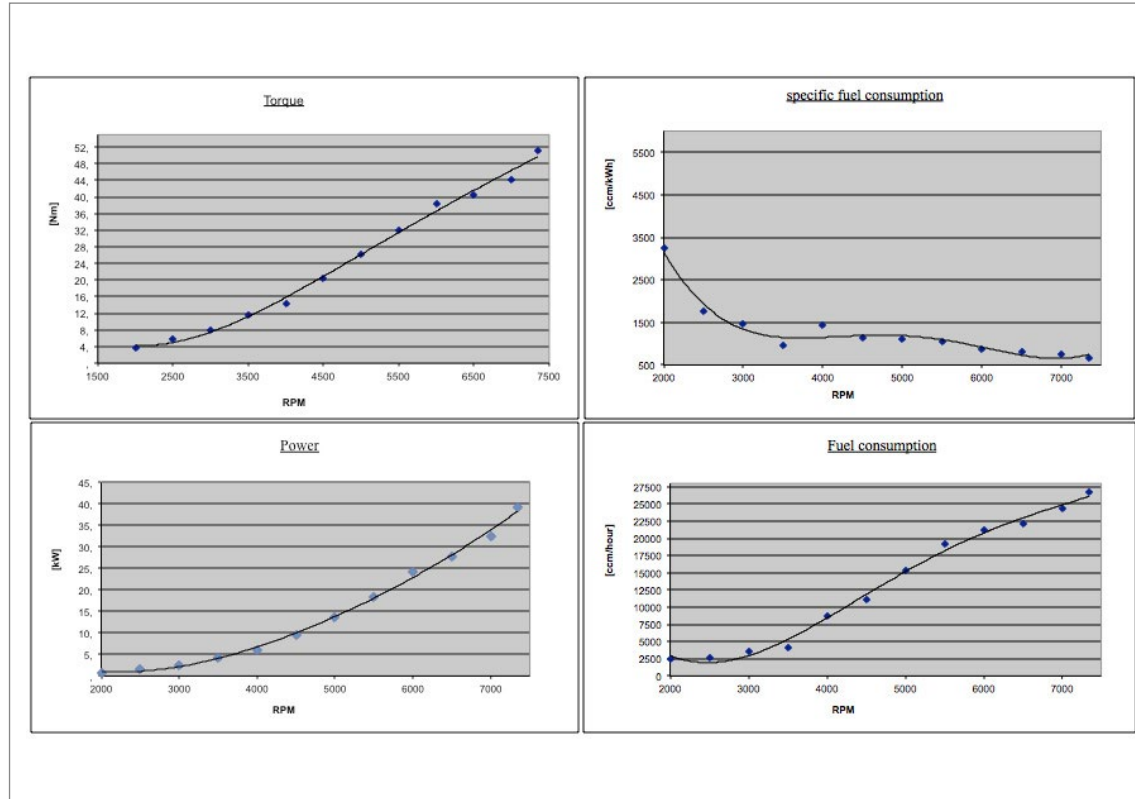
| | |
|---------------------|------|
| Air pressure (mbar) | 1006 |
| Ambient temp. (°C) | 18 |
| Humidity (%) | 32 |

ENGINE PARAMETERS

| Propeller | | | | | n red | Md red | N red | N red | FC | FC | SFC | |
|-----------|-------|--------|--------|------|-------|--------|-------|-------|---------|-------|---------|---------|
| Diameter | Pitch | Blades | Vendor | RPM | RPM | [Nm] | [kW] | [PS] | ccm/min | ccm/h | ccm/kWh | gr/PS/h |
| 32 | 14 8 | 3 | 3W CFK | 2000 | 1999 | 3.70 | 0.77 | 1.05 | 42 | 2520 | 3251 | 1913 |
| | | | | 2500 | 2499 | 5.83 | 1.53 | 2.08 | 45 | 2700 | 1768 | 1040 |
| | | | | 3000 | 2999 | 7.86 | 2.47 | 3.36 | 60 | 3600 | 1456 | 857 |
| | | | | 3500 | 3499 | 11.46 | 4.20 | 5.71 | 68 | 4080 | 971 | 571 |
| | | | | 4000 | 3999 | 14.36 | 6.01 | 8.18 | 145 | 8700 | 1445 | 850 |
| | | | | 4500 | 4499 | 20.49 | 9.65 | 13.13 | 185 | 11100 | 1149 | 676 |
| | | | | 5000 | 4998 | 26.31 | 13.78 | 18.74 | 255 | 15300 | 1109 | 653 |
| | | | | 5500 | 5498 | 32.11 | 18.49 | 25.15 | 320 | 19200 | 1037 | 610 |
| | | | | 6000 | 5998 | 38.51 | 24.19 | 32.90 | 355 | 21300 | 880 | 517 |
| | | | | 6500 | 6498 | 40.64 | 27.66 | 37.62 | 368 | 22080 | 797 | 469 |
| | | | | 7000 | 7046 | 44.30 | 32.47 | 44.16 | 405 | 24300 | 748 | 440 |
| | | | | 7350 | 7348 | 51.16 | 39.38 | 53.55 | 445 | 26700 | 677 | 398 |



ENGINE GRAPH





CONTACT

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