



# PERFORMANCE BEYOND LIMITS

## ENGINE DATA 3W-28I





# ENGINE DATA 3W-28I



## SPECIFICATIONS

|                    |                                  |
|--------------------|----------------------------------|
| Cylinder Capacity  | 28 ccm / 1.74 cu in              |
| Power              | 2.9 HP / 2.1 KW                  |
| Bore Diameter      | 1.42 inch (36.00 mm)             |
| Stroke             | 1.1 inch (28.00 mm)              |
| Speed Range        | 1500 - 8500 RPM                  |
| Weight             | 2.67 lbs (1.2 kg) incl. ignition |
| Crankshaft         | 3 ball bearing                   |
| Oil/Gasoline Ratio | 1:50 / 2% mix                    |
| Operating voltage  | 6 - 8.4 V DC                     |
| Torque             | 2.49 Nm / 8150 RPM               |
| kW/RPM             | 2.13 KW / 8150 RPM               |

## ENGINE TYPE / SETUP

|                          |                 |
|--------------------------|-----------------|
| Engine                   | 3W-28i          |
| Serial No.               | 14612053Bi      |
| Direction                | tractor         |
| Muffler                  | 3W Banana shape |
| Fuel                     | Jet A-1         |
| Date                     | 16.06.2014      |
| Running time before test | 6 hours         |
| Throttle position        | variable        |
| Propeller                | 18x8 3W wood    |

Engine data based on test run according to:

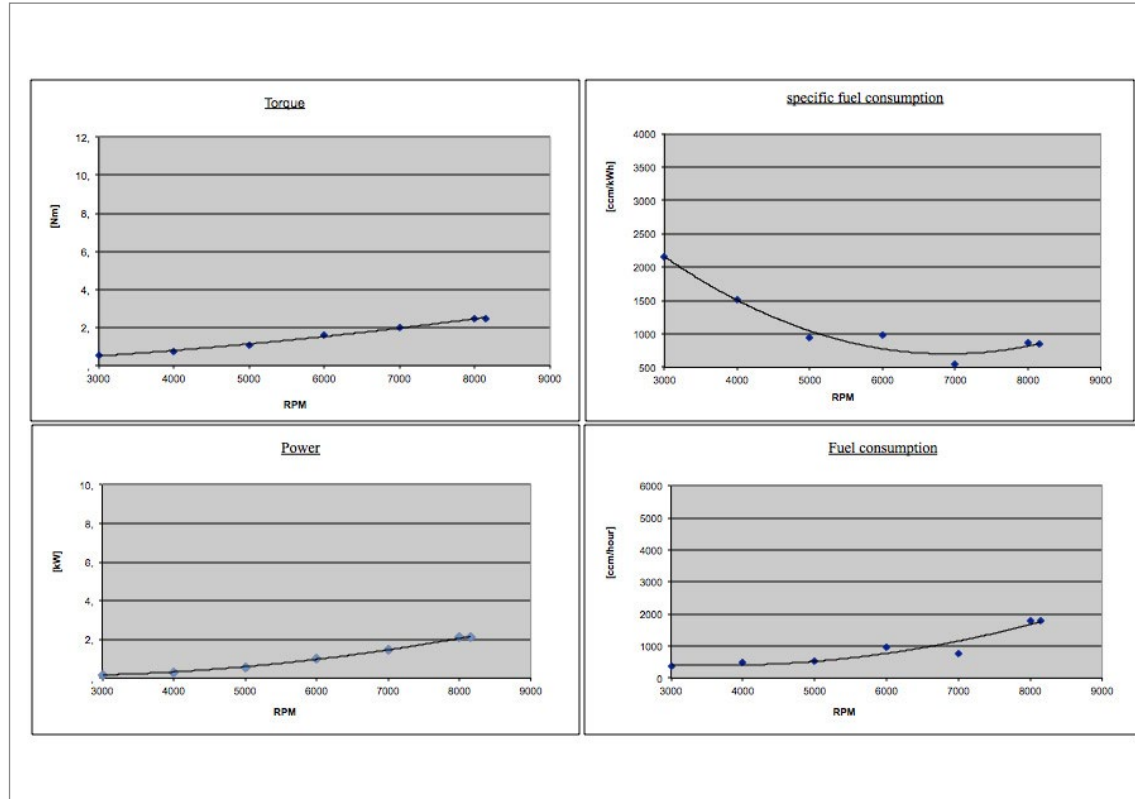
|                     |      |
|---------------------|------|
| Air pressure (mbar) | 1006 |
| Ambient temp. (°C)  | 19   |
| Humidity (%)        | 59   |

## 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 |
| 18        | 8     | 2      | 3W wood | 3000 | 3007  | 0.53   | 0.17  | 0.23  | 6       | 360   | 2161    | 1271    |
|           |       |        |         | 4000 | 4010  | 0.76   | 0.32  | 0.43  | 8       | 480   | 1513    | 890     |
|           |       |        |         | 5000 | 5012  | 1.09   | 0.57  | 0.78  | 9       | 540   | 950     | 559     |
|           |       |        |         | 6000 | 6014  | 1.58   | 0.99  | 1.35  | 16      | 960   | 976     | 574     |
|           |       |        |         | 7000 | 7017  | 1.98   | 1.45  | 1.98  | 13      | 780   | 540     | 318     |
|           |       |        |         | 8000 | 8019  | 2.49   | 2.09  | 2.84  | 30      | 1800  | 868     | 511     |
|           |       |        |         | 8150 | 8170  | 2.49   | 2.13  | 2.89  | 30      | 1800  | 852     | 501     |



## ENGINE GRAPH





## CONTACT

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