



# Data sheet ABT Power

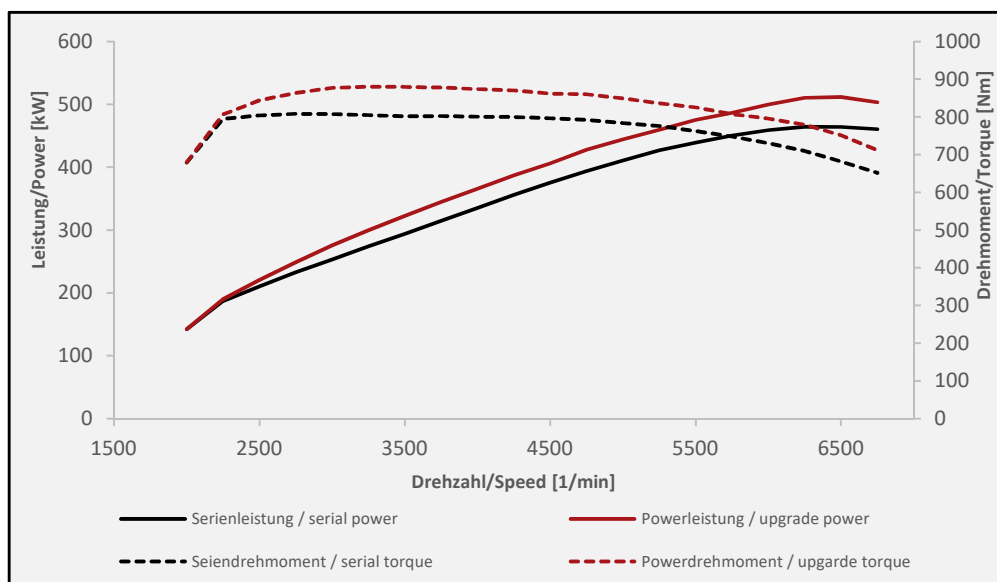
04.02.2020

Engine type code **DHUB**  
Emission class: **Euro 6DG; WLTP**

Constructiv change: **ABT Engine Control**  
Fuel **ROZ 98**  
(please note the fuel information on page 3)

## Technical Data:

	Base	ABTgrade	
Displacement:	3996	3996	ccm
Power * :	441	515	kW
	600	700	BHP
at engine speed:	6000	6280-6400	<sup>1</sup> /min
Torque:	800	880	Nm
at engine speed:	2200-4500	3100-4500	<sup>1</sup> /min
speed limit <sup>*</sup> / <sup>**</sup> :	305	305	km/h
acceleration 0-100 km/h <sup>*</sup> :	serial	-0,3	sec.
CO <sub>2</sub> Factor <sup>*</sup> / <sup>***</sup> :		1,00	- - -



\* The specified values may vary due to differences in body shape, equipment, drive train and wheels.

\*\* Ensure sufficient speed release of the tires

\*\*\*  $CO_2 \text{ new} = CO_2 \text{ Factor} \times CO_2 \text{ Serial}$

To determine the CO<sub>2</sub> emissions, the specified factor must be multiplied the CO<sub>2</sub> data from the COC paper (no. 49) or under V.7 of the registration certificate



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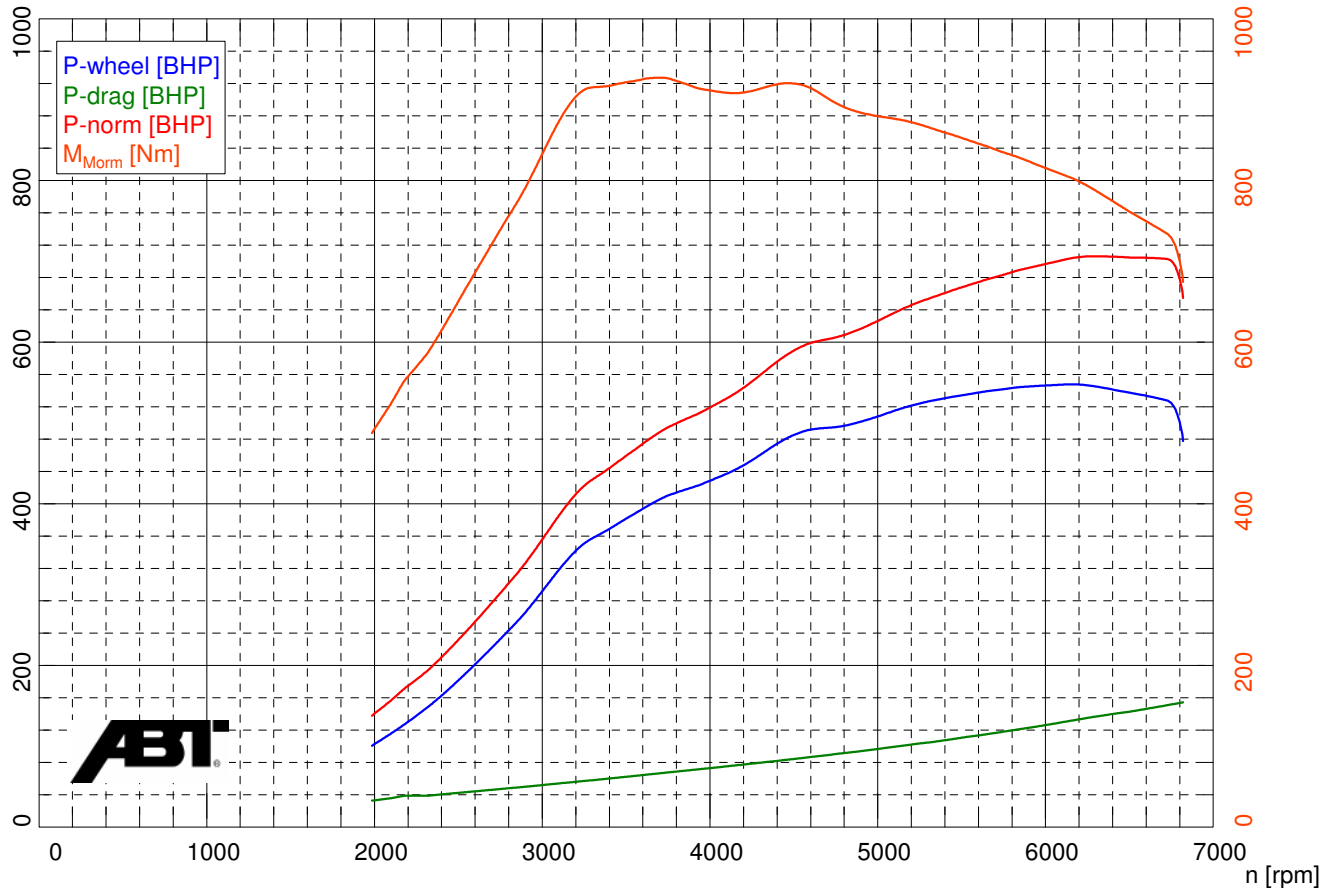
Vehicle type: RSQ8 DHUB Power 700 5G  
License plate:  
Inspector: Fabian

Otto-Motor / Turbo charger (air-cooled)  
Manual transmission  
4 wheel drive

LM 2  
3045 KM

Measurement date: 13.01.2020 (10:58)

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**Power data**

Corrected power <sup>1)</sup>	$P_{Norm}$	705,8 BHP / 519,1 kW
Engine power	$P_{Eng}$	681,2 BHP / 501,0 kW
Wheel power	$P_{Wheel}$	545,2 BHP / 401,0 kW
Drag power	$P_{Drag}$	136,0 BHP / 100,1 kW
Max. power at		6285 rpm / 213,5 km/h
Torque <sup>1)</sup>	$M_{Morm}$	926,7 Nm
Max. Torque at		3700 rpm / 125,8 km/h
Max. attained RPM		6820 rpm / 231,8 km/h

<sup>1)</sup> Correction acc. to EWG 80/1269  
Correction factors:  $Q_v = 0,00\%$

**Ambient data**

Ambient temperature	$T_{Ambient}$	8,0 °C
Intake air temperature	$T_{Intake\ air}$	6,9 °C
Relative humidity	$H_{Air}$	49,3 %
Air pressure	$p_{Air}$	936,8 hPa
Steam pressure	$p_{Steam}$	5,3 hPa
Oil temperature	$T_{Oil}$	----, °C
Fuel temperature	$T_{Fuel}$	----, °C

**Slip**

Speed no load	$v_{no\ load}$	----, km/h
RPM no load	$n_{no\ load}$	---- rpm
Speed full load	$v_{full\ load}$	----, km/h
RPM full load	$n_{full\ load}$	---- rpm
Slip (Manual input)		1,00 %

**Rotating mass**

$a_{1-FA}$	---, m/s <sup>2</sup>	$a_{1-RA}$	---, m/s <sup>2</sup>
$F_{1-FA}$	----, N	$F_{1-RA}$	----, N
$a_{2-FA}$	---, m/s <sup>2</sup>	$a_{2-RA}$	---, m/s <sup>2</sup>
$F_{2-FA}$	----, N	$F_{2-RA}$	----, N
$F_{rot-total-FA}$	----, N	$F_{rot-total-RA}$	----, N
$m_{rot-total-FA}$	794,0 kg	$m_{rot-total-RA}$	793,0 kg
$m_{rot-dyno-FA}$	714,0 kg	$m_{rot-dyno-RA}$	713,0 kg
$m_{rot-vehicle-FA}$	80,0 kg	$m_{rot-vehicle-RA}$	80,0 kg

## Technical Definitions

### General:

The fuel used must conform to the approved specifications (Sheet 1).

The use of fuel of a lesser grade than specified will lead to reduced performance levels.

Large differences between specifications (e.g. ROZ102 to ROZ95) can cause damage to the engine. If high-grade fuel is not available, only 75% of the travel of the vehicle's accelerator pedal (standard level) may be utilised.

For optimum engine output power, the vehicle's control units (engine, gearbox, suspension etc.) must be in faultless working order.

### Power Measurement:

Reliable power data can be determined only after the engine or drive train has been 'run-in'. After 3,000 km, a vehicle can be considered as 'run-in'.

The corrected power of the engine is conveyed, i.e. the power transferred from the engine to the flywheel.

Wheel power is generally measured on a performance dynamometer (Sheet 2, diagram and text field in blue), i.e. the power transferred onto the road by the wheels.

This power appears lower than the corrected power, because power losses come into effect via transmission, drive shafts, differentials and wheels/tyres. These power losses are determined on the dynamometer via the so-called drag power (Sheet 2, diagram and text field in blue).

Corrected power (Sheet 2, diagram and text field in red) is calculated from the determined values as follows:

$$\text{Corrected power} = (\text{wheel power} + \text{drag power}) \times \text{standard correction}$$

The standard correction factor is calculated from the supplied environmental data in accordance with standards (EWG, DIN or ISO).

The torque (Sheet 2, diagram and text field in orange) is calculated from the corrected power using the following formula:

$$\text{Torque [Nm]} = \frac{\text{Power [kW]} \times 9550}{\text{revolutions } \left[\frac{1}{\text{min}}\right]}$$

Detailed information regarding the procedure for power measurement can be found in the ABT procedural instructions for power measurement.