



Data sheet ABT Power

11.02.2025

Engine type code

DWVA

Emission class:

Euro 6 EA

Constructiv change:

ABT Engine Control

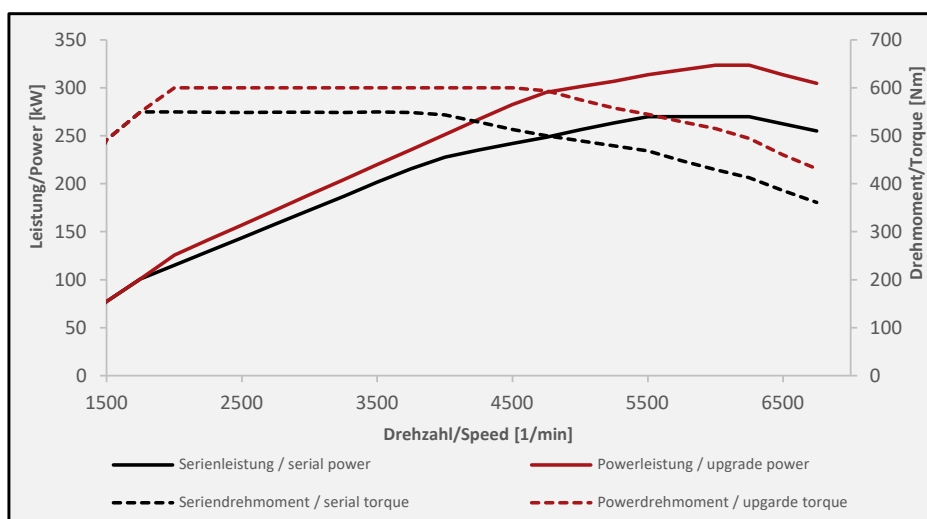
Fuel

98 Oktan

(please note the fuel information on page 3)

Technical Data:

	Base	ABTgrade	
Displacement:	2994	2994	ccm
Power [*] :	270	324	kW
	367	440	BHP
at engine speed:	5500-6300	6000-6300	¹ /min
Torque:	550	600	Nm
at engine speed:	1700-4000	2000-4500	¹ /min
speed limit ^{*/**} :	serial	serial	km/h
acceleration 0-100 km/h [*] :	serial	-0.3	sec.
CO ₂ Factor ^{*/***} :		1.00	---



* This specific data can vary due to differences in body style, equipment, drivetrain or wheels.

** Please check for sufficient tire speed rating.

*** CO₂ new = CO₂ Factor x CO₂ Serial

To determine the CO₂ emissions, the specified factor must be multiplied the CO₂ data from the COC paper (no. 49) or under V.7 of the registration certificate



ABT Sportsline
Johann Abt str.2
87437 Kempten



MSR 5000

Vehicle type: Audi S5 Avant DWVA
License plate:
Vehicle ID: WAUZZZFU9SN004238 KBA:

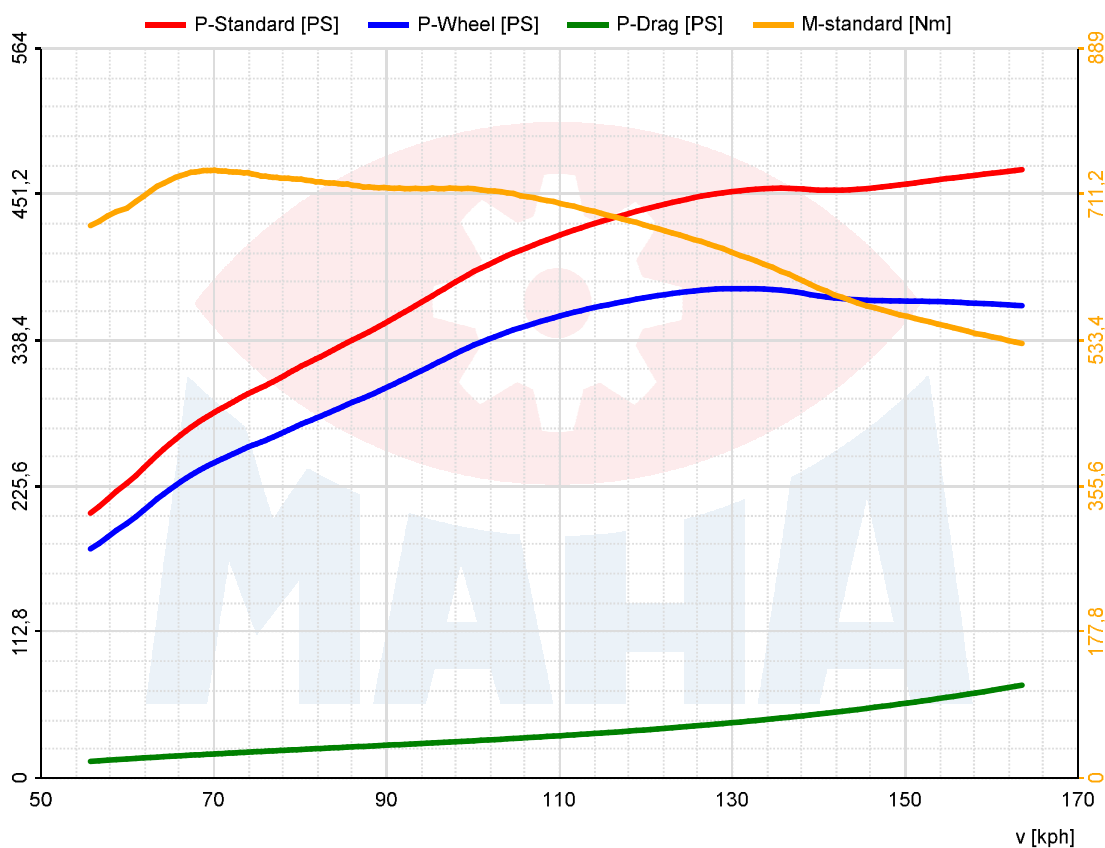
Comments:

Drive position: 4th gear
Transmission mode: Manual
Dyno mode: Four-wheel drive, Axles synchronized
Inspector: Smid

Slippage power: 1,0 %
Speed offset: 0,0 %
Acceleration: 3,0 m/s²

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Performance data					Ambient data/Miscellaneous			
Standard power *	P-Standard	470,3	PS	/ 345,9 kW	Ambient temperature	T-Ambient	16,1	°C
Engine power	P-Engine	441,4	PS	/ 324,7 kW	Intake air temperature	T-Intake air	16,2	°C
Wheel power	P-Wheel	365,1	PS	/ 268,5 kW	Relative humidity	H-Air	54,0	%
Drag power	P-Drag	71,9	PS	/ 52,9 kW	Air pressure	p-Air	935,0	hPa
Max. power at		6236,9	rpm	/ 163,5 kph	Steam pressure	p-Steam	9,9	hPa
Torque *	M-standard	740,5	Nm					
Max. torque at		2681,8	rpm	/ 70,1 kph				
Max. speed achieved		6236,9	rpm	/ 163,5 kph				
* Correction acc. to EEC 80/1269 **								
** Petrol engine / Turbo (air-cooled)								
Rotating mass								
m rot-Total-FA	350,0	kg		m rot-Dyno-FA	280,0	kg	m rot-Vehicle-FA	70,0 kg
m rot-Total-RA	350,0	kg		m rot-Dyno-RA	280,0	kg	m rot-Vehicle-RA	70,0 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 or 1,864 mls, 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/tires. 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.

Further Information under:

<https://www.abt-sportslines.com/performance-measurement/>