

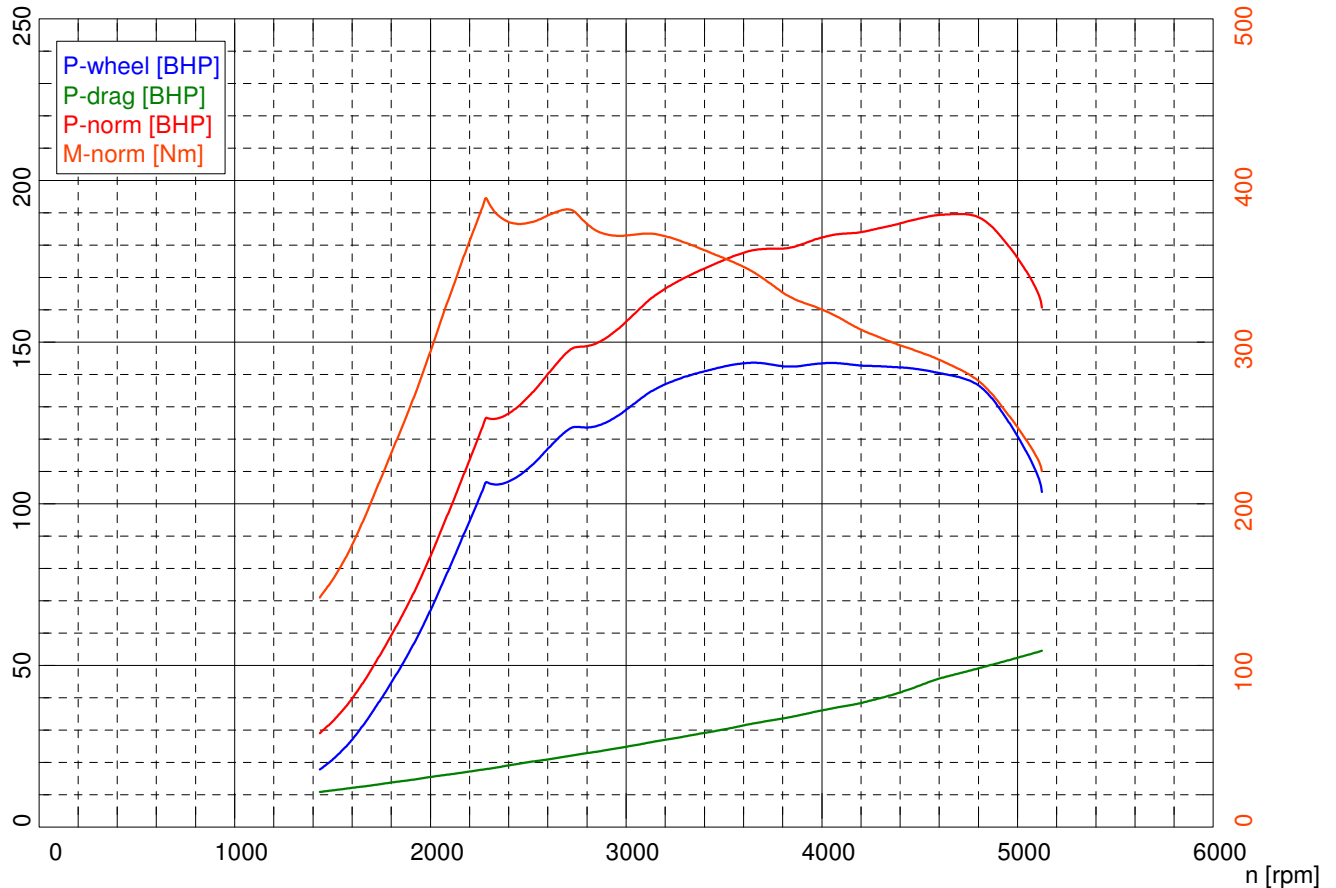
Vehicle type: Alfa Romeo 156 2.4JTD
 License plate: BT1877BB
 Inspector: Nikolay Nikolov

Diesel-Motor / Turbo charger (air-cooled)
 Manual transmission

Chip tuning

Measurement date: 16.05.2015 (12:06)

Page 1



Power data

Corrected power 1)	P_{Norm}	189.5 BHP / 139.4 kW
Engine power	P_{Eng}	186.5 BHP / 137.2 kW
Wheel power	P_{Wheel}	139.3 BHP / 102.5 kW
Drag power	P_{Drag}	47.2 BHP / 34.7 kW
Max. power at		4690 rpm / 169.3 km/h
Torque 1)	M_{Norm}	389.1 Nm
Max. Torque at		2285 rpm / 82.5 km/h
Max. attained RPM		5125 rpm / 185.3 km/h

1) Correction acc. to DIN 70020
 Correction factors: $Q_v = 0.00\%$

Ambient data

Ambient temperature	$T_{Ambient}$	25.6 °C
Intake air temperature	$T_{Intake\ air}$	23.5 °C
Relative humidity	H_{Air}	60.7 %
Air pressure	p_{Air}	997.6 hPa
Steam pressure	p_{Steam}	19.9 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		---- %

Rotating mass

Average delay run down 1	a_1	---- m/s ²
Average Brake force run down 1	F_1	---- N
Average delay run down 2	a_2	---- m/s ²
Average brake force run down 2	F_2	---- N
Force of the rotating mass	$F_{rot-total}$	---- N
Rotating total mass	$m_{rot-total}$	310.0 kg
Rotating test stand mass	$m_{rot-dyno}$	250.0 kg
Rotating vehicle mass	$m_{rot-vehicle}$	60.0 kg