

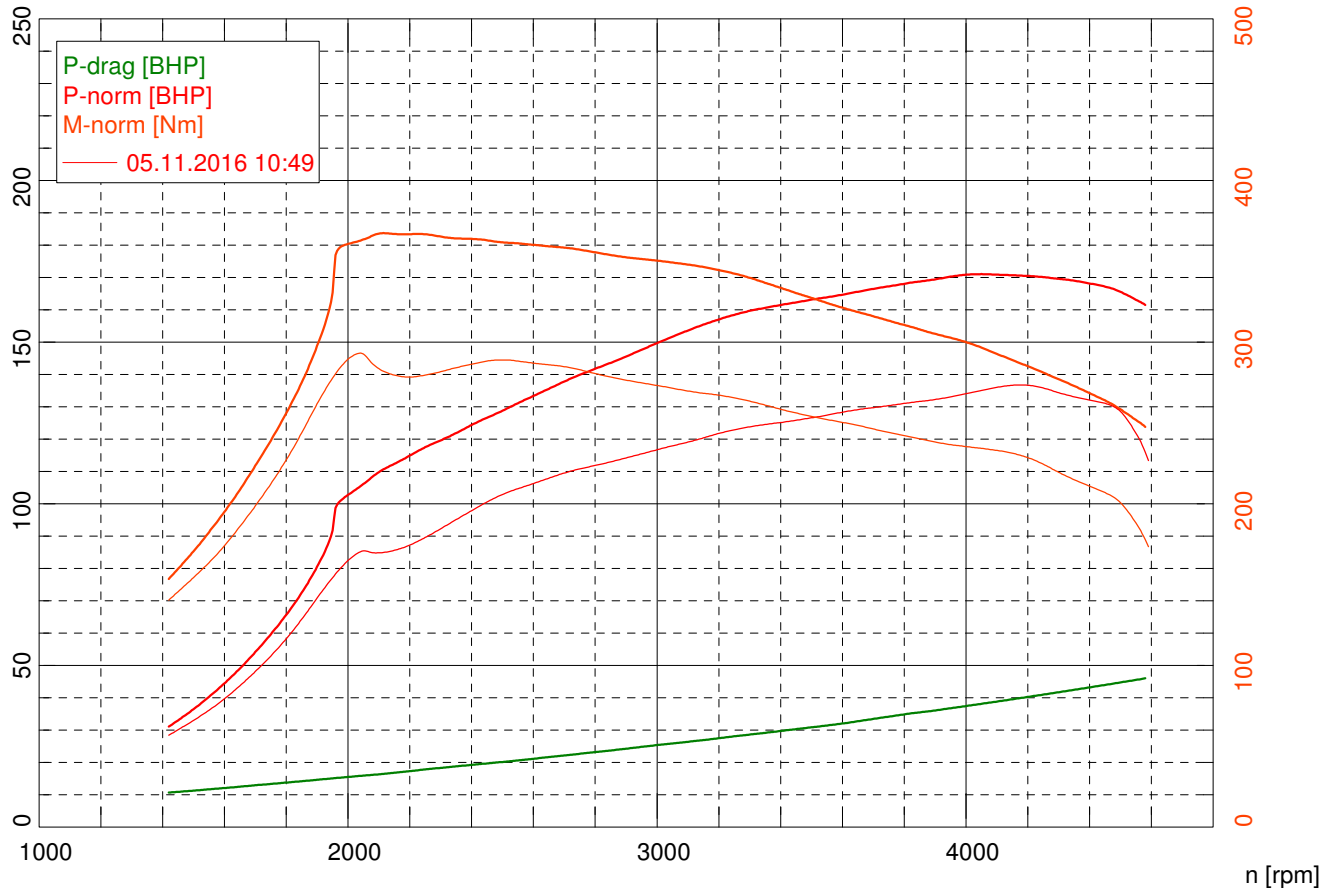
Vehicle type: Mercedes C220 CDI
 License plate: BT 4834 BT
 Inspector: Nikolay Nikolov

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

Original 138 bhp 295 nm

Measurement date: 05.11.2016 (11:09)

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Power data

Corrected power 1)	P_{Norm}	170.9 BHP / 125.7 kW
Engine power	P_{Eng}	171.5 BHP / 126.2 kW
Wheel power	P_{Wheel}	133.5 BHP / 98.2 kW
Drag power	P_{Drag}	38.1 BHP / 28.0 kW
Max. power at		4050 rpm / 137.5 km/h
Torque 1)	M_{Norm}	367.2 Nm
Max. Torque at		2115 rpm / 71.9 km/h
Max. attained RPM		4580 rpm / 155.6 km/h

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

Ambient data

Ambient temperature	$T_{Ambient}$	13.9 °C
Intake air temperature	$T_{Intake\ air}$	12.9 °C
Relative humidity	H_{Air}	58.9 %
Air pressure	p_{Air}	999.4 hPa
Steam pressure	p_{Steam}	9.4 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