

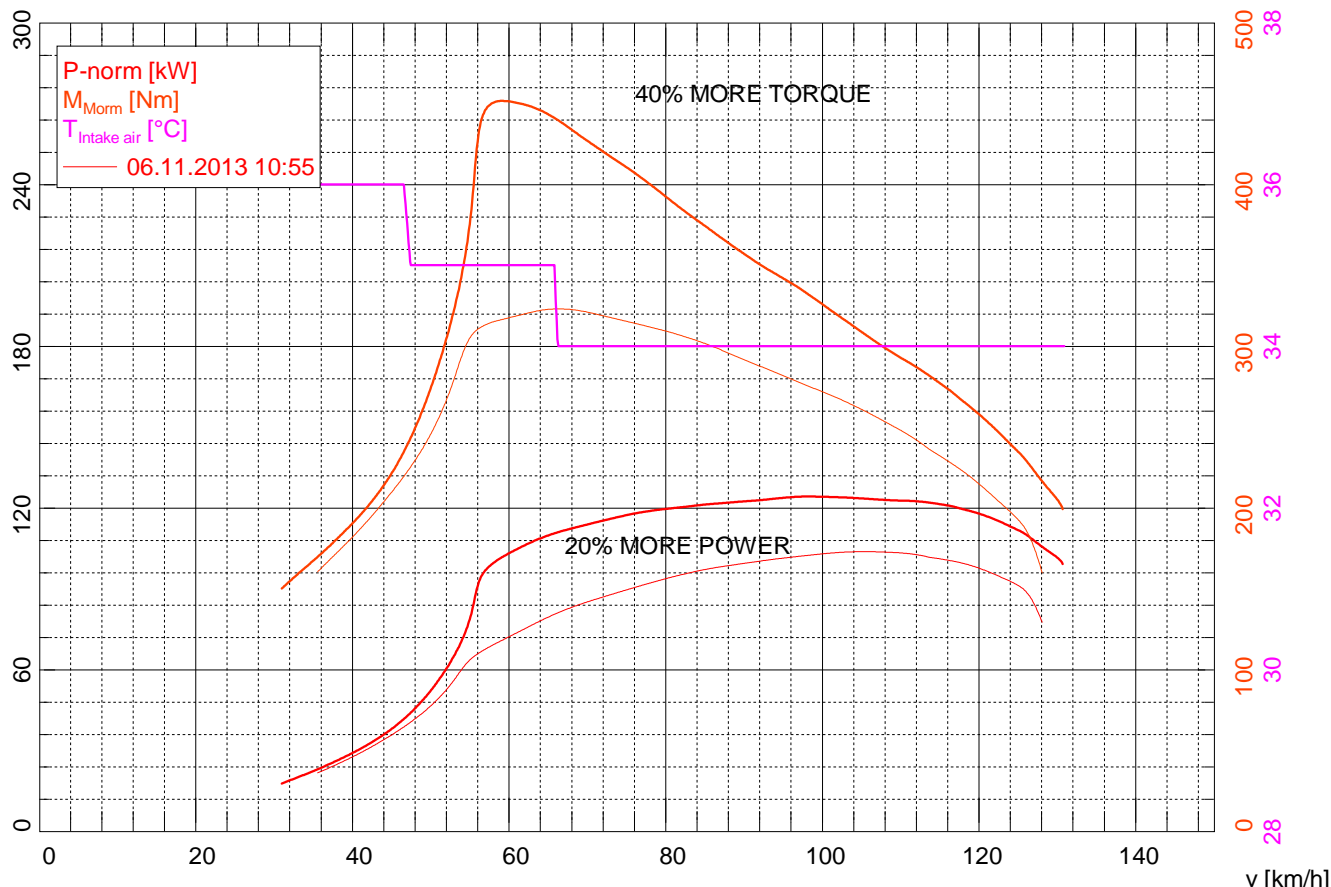
Vehicle type: DEFENDER 90 2.2
 License plate: DPL
 Inspector: TW

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

POWER RUN 2 INTERCOOLER AND TUNE
 TUNED V1 vs STOCK

Measurement date: 07.11.2013 (15:59)

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Power data

Corrected power 1)	P_{Norm}	124,1 kW / 168,8 BHP
Engine power	P_{Eng}	121,6 kW / 165,3 BHP
Wheel power	P_{Wheel}	87,0 kW / 118,3 BHP
Drag power	P_{Drag}	34,6 kW / 47,0 BHP
Max. power at		98,2 km/h / 3570 rpm
Torque 1)	M_{Morm}	451,6 Nm
Max. Torque at		59,1 km/h / 2150 rpm
Max. attained speed		130,8 km/h / 4755 rpm

1) Correction acc. to DIN 70020
 Correction factors: $Q_v = 0,00\%$

Ambient data

Ambient temperature	$T_{Ambient}$	33,3 °C
Intake air temperature	$T_{Intake\ air}$	31,9 °C
Relative humidity	H_{Air}	25,9 %
Air pressure	p_{Air}	1011,6 hPa
Steam pressure	p_{Steam}	13,2 hPa
Oil temperature	T_{Oil}	30,0 °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

a_{1-FA}	---,--- m/s ²	a_{1-RA}	---,--- m/s ²
F_{1-FA}	----,- N	F_{1-RA}	----,- N
a_{2-FA}	---,--- m/s ²	a_{2-RA}	---,--- m/s ²
F_{2-FA}	----,- N	F_{2-RA}	----,- N
$F_{rot-total-FA}$	----,- N	$F_{rot-total-RA}$	----,- N
$m_{rot-total-FA}$	340,0 kg	$m_{rot-total-RA}$	365,0 kg
$m_{rot-dyno-FA}$	280,0 kg	$m_{rot-dyno-RA}$	305,0 kg
$m_{rot-vehicle-FA}$	60,0 kg	$m_{rot-vehicle-RA}$	60,0 kg



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Measurement data table

n [rpm]	v [km/h]	P _{Wheel} [kW]	P _{Eng} [kW]	P _{Norm} [kW]	M _{Morm} [Nm]	Druck 1 [bar]	Boost [bar]	LAMBDA [LAMBDA]	Analog	Analog	Analog	Throttl [%]	T _{Inta} [°C]
3585	100,0	86,2	121,5	124,1	325,8	0,004	- 0,002	0,713	0,000	0,000	0,000	94,5	34

Minimum value

Maximum value