Hybrid Tune LTD
Renvale Technology Park, Eye Road, Brome,
Eye, IP23 8AS
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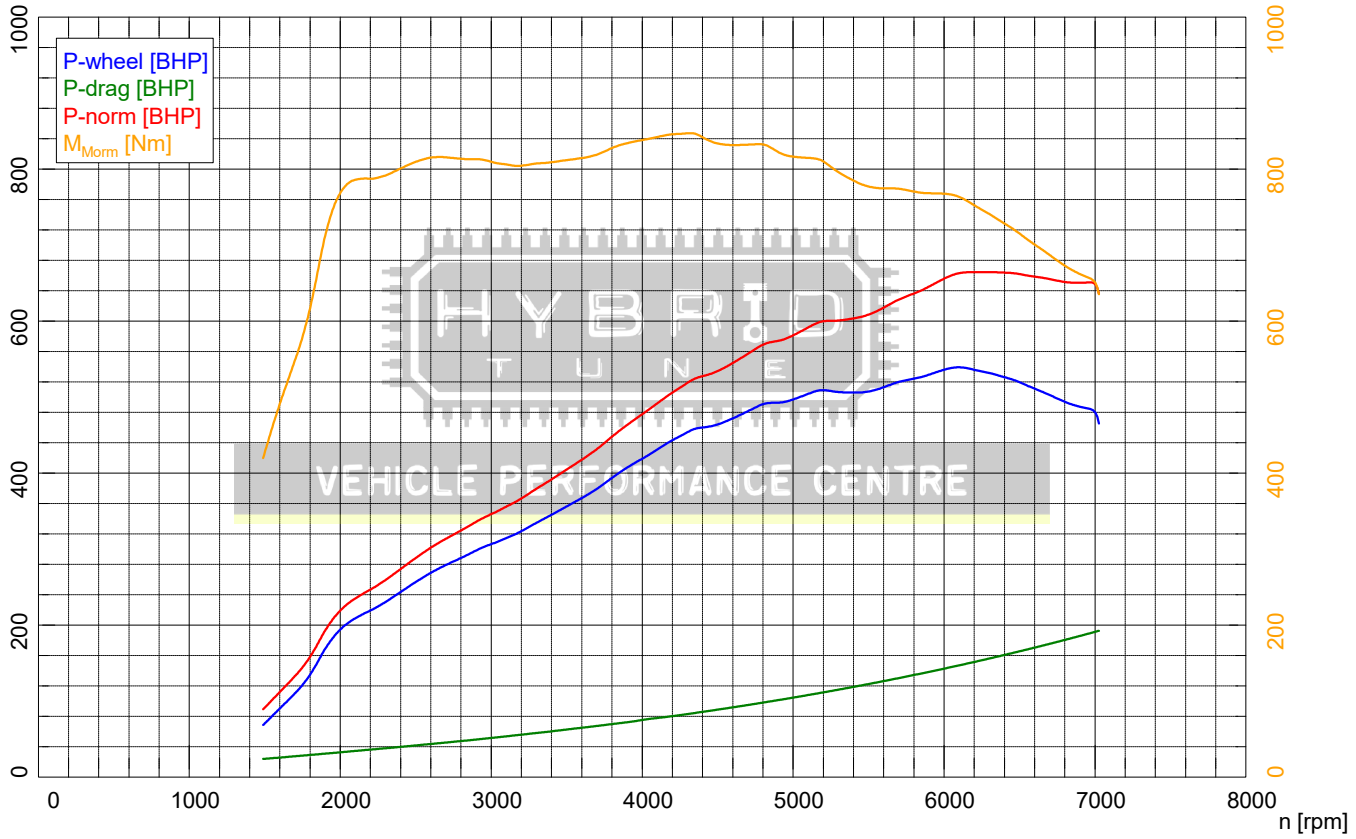
MSR 500

Vehicle type:	BMW F85 X5M		Otto-Motor / Turbo charger (water-cooled)
License plate:			Manual transmission
Inspector:	Sam Weller		4 wheel drive

Measurement date: 08.03.2021 (12:29)



Power data

Corrected power 1)	P_{Norm}	664,1	BHP	/ 488,4	kW
Engine power	P_{Eng}	687,1	BHP	/ 505,4	kW
Wheel power	P_{Wheel}	531,2	BHP	/ 390,7	kW
Drag power	P_{Drag}	155,9	BHP	/ 114,7	kW
Max. power at		6300	rpm	/ 267,0	km/h
Torque 1)	M_{Morm}	846,8	Nm		
Max. Torque at		4315	rpm	/ 182,7	km/h
Max. attained RPM		7025	rpm	/ 297,8	km/h

1) Correction acc. to DIN 70020
Correction factors: Q_V = 0,00 %

Ambient data

Ambient temperature	$T_{Ambient}$	8,6	°C
Intake air temperature	$T_{Intake\ air}$	15,5	°C
Relative humidity	H_{Air}	73,3	%
Air pressure	p_{Air}	1040,0	hPa
Steam pressure	p_{Steam}	8,2	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

$a_{1\text{-}FA}$	---,---	m/s²	$a_{1\text{-}RA}$	---,---	m/s²
$F_{1\text{-}FA}$	-----,-	N	$F_{1\text{-}RA}$	-----,-	N
$a_{2\text{-}FA}$	---,---	m/s²	$a_{2\text{-}RA}$	---,---	m/s²
$F_{2\text{-}FA}$	-----,-	N	$F_{2\text{-}RA}$	-----,-	N
$F_{rot\text{-}total\ \text{-}FA}$	-----,-	N	$F_{rot\text{-}total\ \text{-}RA}$	-----,-	N
$m_{rot\text{-}total\text{-}FA}$	330,0	kg	$m_{rot\text{-}total\text{-}RA}$	355,0	kg
$m_{rot\text{-}dyno\text{-}FA}$	260,0	kg	$m_{rot\text{-}dyno\text{-}RA}$	285,0	kg
$m_{rot\text{-}vehicle\text{-}FA}$	70,0	kg	$m_{rot\text{-}vehicle\text{-}RA}$	70,0	kg