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Mercedes-Benz Actros 4054 S

Model:	Mercedes-Benz Actros
Vehicle type:	4054 S
Drivetrain:	6X4
Baumuster:	934 16 122
Chassis variant:	Semitrailer tractor
Cab:	S-Cab
Engine power:	395 kW (537 HP)
Wheelbase:	3180 mm
Gross vehicle weight:	40000 kg
Steering type:	right



Paint

LZ 1: Cab MB 9147 arctic white

Vehicle equipment

Axle load distribution

TS3 Weight variant 40.0 t (9.0/16.0/16.0)





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Engine

MV7	Engine, V8, LA, 395 kW (537 hp), 1800 rpm
MS3	Engine version, Euro III
M49	Tandem air cleaner system
*>>>	Fuel preheating system
MK9	Insect screen, in front of cooling system
>>>	Radiator protection, bottom
ML3	High-speed fan, with belt drive
*>>>	Engine brake with constantly open throttle valve
M32	Air compressor, additional
M78	Engine number, stamped-in
MA9	Engine mountings, for off-road use

Clutch & transmission

G86	Double-disc clutch
GH4	Mercedes PowerShift G 280-16/11.7-0.69
N55	Transmission oil cooling
GE3	Mercedes PowerShift
NH2	PTO, layshaft MB 131-2c

Axles & suspension

A91	Front axle, straight version
AL5	Front axle 9.0 t
AM6	Rear axle H7, 16.0 t, crown wheel 300
*>>>	Differential lock rear axle
AR5	Axle ratio i = 6.000 (HL7)
QD9	Front spring, 9.0 t hard, asymmetrical
QF8	Rear spring, 18.0 t, for axle spacing 1450 mm
*>>>	Stabilizer front axle

Wheels & tyres

R28	Tapered rims, 8.50-24, for 12.00-24
R60	Spare wheel carrier, provisional
R04	Wheel nut cap
R87	Spare wheel/spare wheel rim
1.A.	L94G54 90 2x 325/95 R 24 Cross country Goodyear OFFROAD ORD
2.A.	L94G54 90 4x 325/95 R 24 Cross country Goodyear OFFROAD ORD
3.A.	L94G54 90 4x 325/95 R 24 Cross country Goodyear OFFROAD ORD
	L94G54 90 1x 325/95 R 24 Cross country Goodyear OFFROAD ORD

Frame and components attached to frame

CR5	Frame front end, reinforced, for special attachments
CL9	Steering LS 6/LS 8
*>>>	Implement carrier, left
K00	Shunting tank 20 l, tank system from bodybuilder
KH3	Exhaust pipe raised, behind cab
KH9	Exhaust system, repositioned further back
P44	Mudguard, for chassis transit
C63	Bumper, steel version
YA8	Deletion, front apron
C69	Support bracket for fifth-wheel coupling, extended





Brake system

*>>>	Dual-circuit full air brakes
*>>>	Automatic brake adjusting
*>>>	Roll back prevention
BB6	Drum brakes on front and rear axle
BB0	Anti-lock braking system (ABS), disengageable
BB8	Telligent braking system with ABS and ASR
*>>>	Compressed-air drier (single-chamber system)
B51	Independent trailer brake (export)
*>>>	Trailer brakes 2-lines
BD3	Brake and electrical connections, high
*>>>	Flexible electric- and brake connections

Cab exterior

F07	S cab
F24	Cab rear wall, straight
FL3	Cab mountings, rear, reinforced
FL4	Comfort cab mountings, steel-sprung
FC7	Windows, tinted, without sun filter
*>>>	Cab rear wall without window
D25	Roof hatch/vent, roof
FE6	Cab steps, movable
*>>>	Steps and standing space behind cab
FS2	Wide-angle mirror on driver's side, heated
*>>>	Wide-angle exterior mirror on front passenger side
*>>>	Electrical adjustable, heated rearview mirrors
*>>>	Ramp mirror on co-driver's side
J76	Air horns, cab roof
FW2	Deletion, immobiliser (transponder)
*>>>	Central locking system

Cab interior

SG5	Driver's standard suspension seat, Isringhausen
SF0	Fold-up seat, co-driver
*>>>	Steering column-rake and height adj. w. pneum lock
*>>>	multi-function steering wheel
FN1	Distribution cockpit
FE5	Power windows for driver's/co-driver's door
JK2	Instrument cluster, graphics-capable display
J10	Speedometer, km
JW0	Reversing warning device
*>>>	Outside temperature gauge
*>>>	Fuel consumption display
*>>>	Telligent Maintenance System
EH7	Interface, fleet management system, parts data
ET1	Voltage transformer, 24 V/12 V, 8 A
E39	Automatic cutouts
HF1	Construction-site filter
*>>>	Air controlled heating/ventilation system
H03	Air conditioning system





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Electrics / electronics

EB3	Batteries, 2 x 12V/220 Ah, low-maintenance
E84	Battery box, lockable
M45	Alternator 28 V/100 A
EM8	PSM, body and trailer CAN, ISO 11992
EC6	Trailer socket, 15-pin
ED8	Trailer socket, 2 x 7-pin, fixed to chassis
L10	Headlamps, left-side traffic
L30	Protective grilles, headlamps
*>>>	Headlamp unit, H7, with clear-lens look
*>>>	6-part tail light cluster with reflector
L54	Rotating beacon, yellow, left+right, front
*>>>	Indicator transmitter for extra indicator lamps
MK6	Speed limiter, electronic, 85 km/h
MD9	Cruise control

Additional scopes

XW9	Deletion, noise reduction measures
Y20	Tool kit, export
Y35	Tyre inflating hose, 25 m
Y74	Jack, 25 t
XK2	Powertrain warranty, Gen. Terms/Con., 2 yrs/200000 km
XV6	Actros
X38	Model identification, acc. to weight variant
X42	Labels/publications, English
Z01	Country-specific version
ZZ4	Vehicle, for left-side traffic

Additional equipment

*KK81	Primary Fuel Filter With Heated Water Separator
*KQHC	Rear springs 18 t for axle spacing 1450 mm, special version
*KEAH	Battery main switch single-pole
*AKKRG	Main tank 680 l on the right, aluminium
*AKK40	Tank filter cap lockable
*AKK45	Fuel filter screen in filler neck
*AKQJL	Jost 5 wheel coupling JSK 38C-1-3,5' height=190 mm 36t
*AKQM_	Mounting plate Jost 32 mm for mine applications
*KZAX	Conversion acc. to offer number F&B 0593/12
*KZSF	Conversion 'F&B'



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Technical data**Mercedes-Benz Actros 4054 S**

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Cab:	S-Cab
Engine power:	395 kW(537 HP)
Wheelbase:	3180 mm
Gross vehicle weight:	40000 kg
Steering type:	right

Major unit overview

	Code	Brief description
Engine	MV7	Engine, V8, LA, 395 kW (537 hp), 1800 rpm
Gearbox	GH4	Mercedes PowerShift G 280-16/11.7-0.69
Steering	CL9	Steering LS 6/LS 8
Battery	EB3	Batteries, 2 x 12V/220 Ah, low-maintenance
Front rims		
Rear rims	R28	Tapered rims, 8.50-24, for 12.00-24
Front axle (s)	AL5	Front axle 9.0 t
Rear axle (s)	AM6	Rear axle H7, 16.0 t, crown wheel 300

Tyres

1st Axle:	L94G54 90	2 x 325/95 R 24	Cross country	Goodyear
2nd Axle:	L94G54 90	4 x 325/95 R 24	Cross country	Goodyear
3rd Axle:	L94G54 90	4 x 325/95 R 24	Cross country	Goodyear
Spare wheel:	L94G54 90	1 x 325/95 R 24	Cross country	Goodyear

Dynamic tyre radius 599 mm

Engine data

max. power	395 kW	(537 HP)
max. torque	2500 Nm at	1080 rpm
Cubic capacity	15928 cm ³	
Theoretical maximum speed:	98 km/h	
	(without speed limiter)	





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Performance Overview

Gearbox

Forward gear ratios							
1. Gear:	11.720	2. Gear:	9.750	3. Gear:	7.920	4. Gear:	6.580
5. Gear:	5.290	6. Gear:	4.400	7. Gear:	3.640	8. Gear:	3.020
9. Gear:	2.660	10. Gear:	2.220	11. Gear:	1.800	12. Gear:	1.500
13. Gear:	1.200	14. Gear:	1.000	15. Gear:	0.830	16. Gear:	0.690

Reverse gear ratios	
1. Gear:	10.660
2. Gear:	8.860

Performance

	Gross weight [kg]	Speed [km/h] on a given grade			
		0%	2%	3%	7%
Solo	40000	98	98	81	38
Train	165000	88	25	19	10

	Gross weight [kg]	Gradeability [%]				
		Maximum	Restart	60 km/h	80 km/h	85 km/h
Solo	40000	68.8	58.3	4.5	3.0	2.6
Train	165000	16.1	13.5	0.5	0.1	0.0

	Gross weight [kg]	Speed [km/h]		Engine RPM [/min]		
		in 1st gear	in top gear	in top gear		
		at 1000/min	at rated rpm	60 km/h	80 km/h	85 km/h
Solo	40000	3	98	1100	1467	1558
Train	165000	3	98	1100	1467	1558

Axle load distribution (kg)

	1. FA	2.FA	1.RA	2.RA	Total
Kerb weight	5378	0	2231	2231	9840
Payload / fifth wheel load	3622	0	13769	13769	30160
Gross vehicle weight	9000	0	16000	16000	40000
Gross combination weight					165000

Attention! Gross combination weight was changed manually.

Kerb weights with Driver (75kg), Tools (28kg), Add. equipment (0kg), Spare wheel (156kg), 100% of tankful (2kg).

Optional equipment is not considered in the weight calculation.





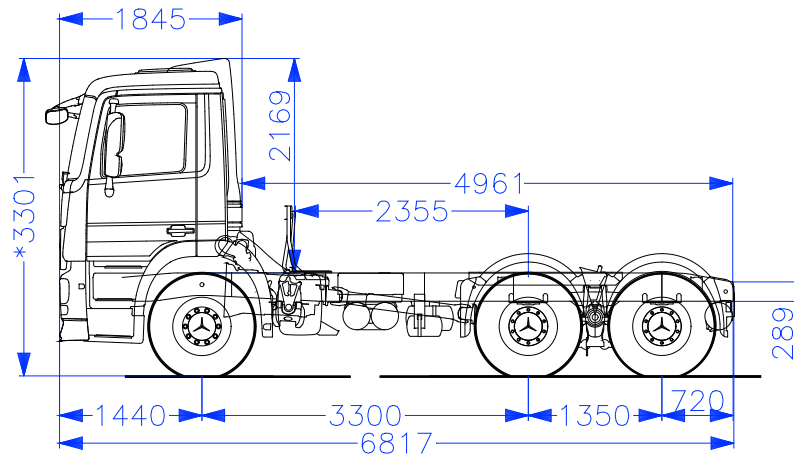
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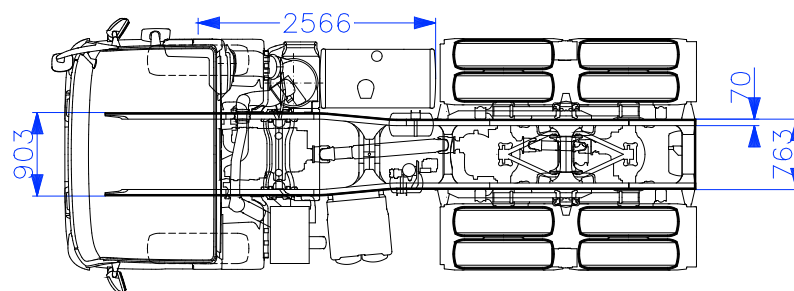
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Side view*



Plan view*



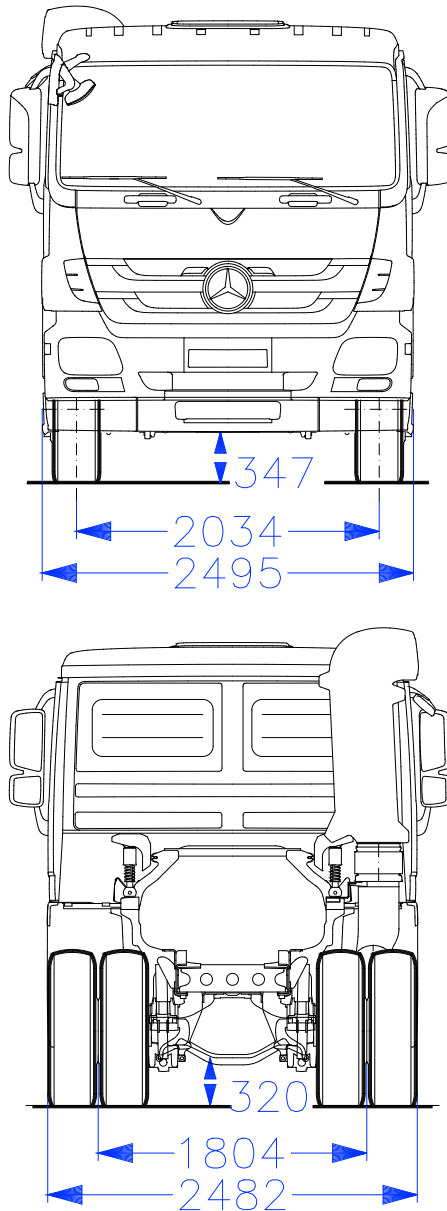


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Front / rear view*



All data without engagement!





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**Performance Calculation:
Graphics & Tables**

Mercedes-Benz Actros 4054 S

Drivetrain

Engine:	MV7	Engine, V8, LA, 395 kW (537 hp), 1800 rpm
Gearbox:	GH4	Mercedes PowerShift G 280-16/11.7-0.69
Rear axle:	AM6	Rear axle H7, 16.0 t, crown wheel 300
Axle ratio:	6.000	
Tyres:	1st Axle:	L94G54 90 325/95 R 24
	2nd Axle:	L94G54 90 325/95 R 24
	3rd Axle:	L94G54 90 325/95 R 24
	Spare wheel:	L94G54 90 325/95 R 24
	Dynamic tyre radius 599 mm	

Theoretical maximum speed: 98 km/h
(without speed limiter)

Performance parameters

Road surface: ROAD / DRY
Rolling resistance coefficient: 0.008
Coefficient of friction: 0.8

Head wind: 0 BF NO WIND
Wind strength: 0 km/h

Air resistance: LK/SK, box
Drag coefficient: 0.60

Road speed reference points (km/h): 50 60 70 80 90 100

Gross combination weight: 40000 kg
Load on driven axles: 26000 kg

Grade A: 0.5 %
Grade B: 1.0 %



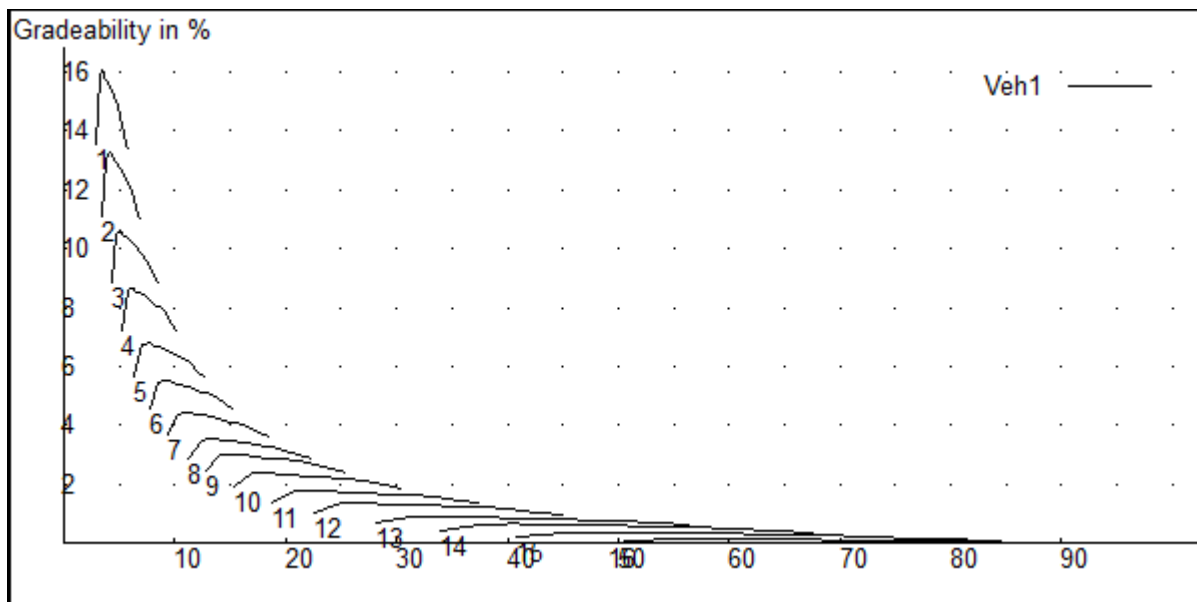


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Gradeability Diagram (theoretical)



Gradeability Table (theoretical)

	Nmin		mNmax		Nmax	
	900	rpm	1080	rpm	1800	rpm
Gear	Km/h	Grd/%	Km/h	Grd/%	Km/h	Grd/%
-1	3	12	4	15	6	12
-2	4	10	5	12	8	10
1	3	14	3	16	6	13
2	3	11	4	13	7	11
3	4	9	5	11	9	9
4	5	7	6	9	10	7
5	6	6	8	7	13	6
6	8	5	9	6	15	5
7	9	4	11	4	19	4
8	11	3	13	4	22	3
9	13	2	15	3	25	2
10	15	2	18	2	31	2
11	19	1	23	2	38	1
12	23	1	27	1	45	1
13	28	1	34	1	56	1
14	34	0	41	1	68	0
15	41	0	49	0	82	0
16	49	0	59	0	98	0

Maximum road speed on various grades:

1%: 88Km/h 2%: 45Km/h 3%: 25Km/h 4%: 19Km/h



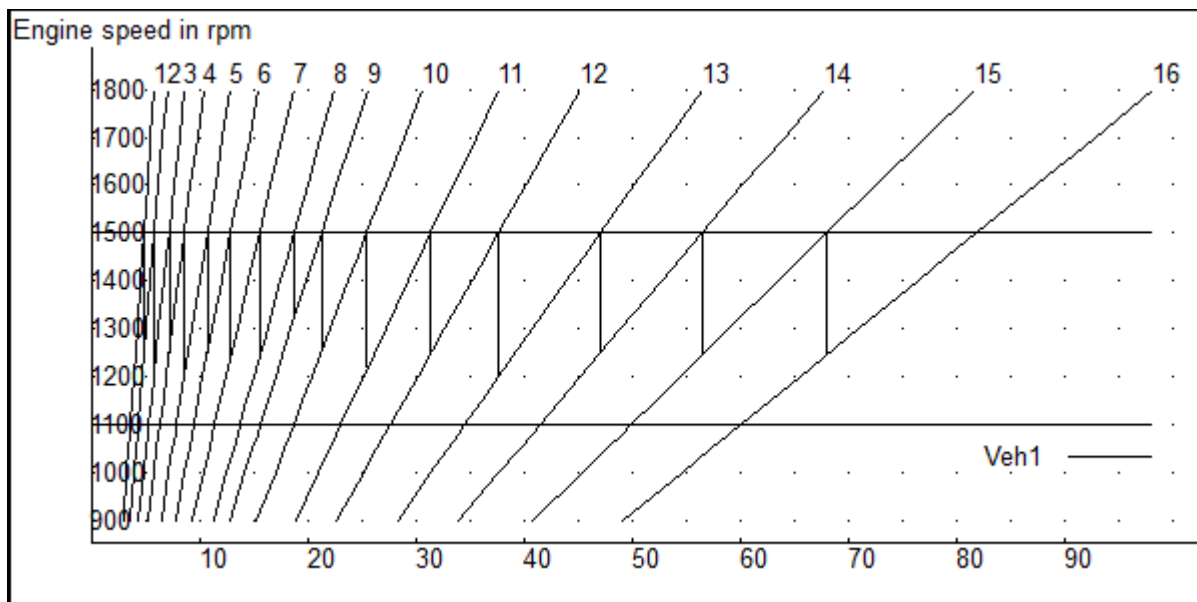


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Engine Diagram RPM



Engine Table RPM

	Km/h	Km/h	Km/h	Km/h	Km/h	Km/h
	50	60	70	80	90	100
Gear	rpm	rpm	rpm	rpm	rpm	rpm
-1	0	0	0	0	0	0
-2	0	0	0	0	0	0
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
13	1594	0	0	0	0	0
14	1328	1594	0	0	0	0
15	1103	1323	1544	1764	0	0
16	917	1100	1283	1467	1650	0



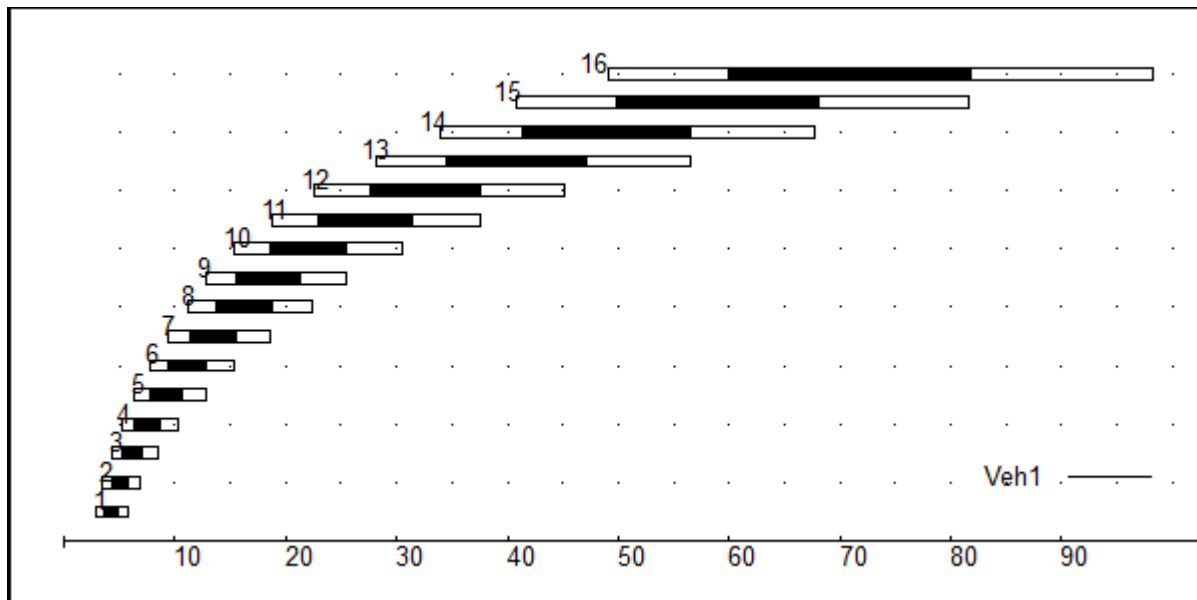


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Road speed Diagram



Road Speed Table

	n/ min 900	n/ 1000 1000	n/ Green 1100	n/ MDmax 1080	n/ Green 1500	n/ max 1800
Gear	Km/h	Km/h	Km/h	Km/h	Km/h	Km/h
-1	3	4	4	4	5	6
-2	4	4	5	5	6	8
1	3	3	4	3	5	6
2	3	4	4	4	6	7
3	4	5	5	5	7	9
4	5	6	6	6	9	10
5	6	7	8	8	11	13
6	8	9	9	9	13	15
7	9	10	11	11	16	19
8	11	12	14	13	19	22
9	13	14	16	15	21	25
10	15	17	19	18	25	31
11	19	21	23	23	31	38
12	23	25	28	27	38	45
13	28	31	35	34	47	56
14	34	38	41	41	56	68
15	41	45	50	49	68	82
16	49	55	60	59	82	98



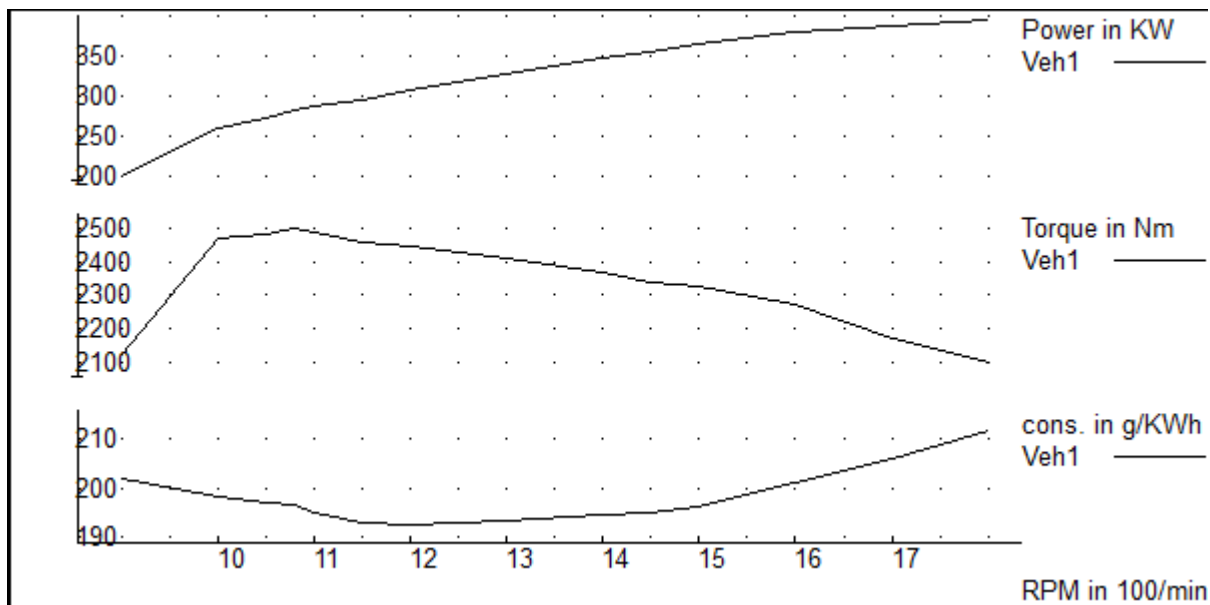


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Engine Performance Diagram



Power = engine power Torque = engine torque cons. = specific fuel consumption

Engine Performance Table

n	Pmax	Mmax	bmax
1/min	KW	Nm	g/KWh
900	200	2120	202
1000	259	2472	198
1050	273	2484	197
1080	283	2500	196
1100	287	2489	195
1150	296	2458	193
1200	308	2449	192
1300	328	2412	193
1400	348	2370	194
1450	355	2338	195
1500	366	2328	196
1600	380	2270	201
1700	387	2172	206
1800	395	2096	212

Pmax = engine power Mmax = engine torque bmax = specific fuel consumption

All data without engagement!

