



PT ALUN INDAH

Authorized Mercedes-Benz Dealer

Mercedes-Benz Actros 3939 K

Model:	Mercedes-Benz Actros
Vehicle type:	3939 K
Drivetrain:	6X4
Baumuster:	93216322
Chassis variant:	Tipper chassis
Cab:	S-Cab
Engine power:	290 kW (394 HP)
Wheelbase:	3900 mm
Gross vehicle weight:	40000 kg
Steering type:	right



This image might differ from your individual vehicle configuration and is therefore non-committal. Subject to alteration!

Paint

LZ 1:	Cab	
	MB 9147	arctic white
LZ 2:	Chassis	
	MB 7350	grey nova
LZ 3:	Wheels	
	MB 9205	truck-silver





Vehicle equipment

Axle load distribution

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

Engine

MX3 Engine, V6, LA, 290 kW (394 hp), 1800 rpm
MS0 Engine version, Euro 2
M49 Tandem air cleaner system
K81 Fuel pre-filter, heated water separator
*>>> Fuel preheating system
MP2 Engine cooling power, increased
*>>> Insect screen in front of radiator
>>> Radiator protection, bottom
ML3 High-speed fan, with belt drive
*>>> Engine brake with constantly open throttle valve
*>>> Single-cylinder air compressor, non-regulated
M72 Protective plate under radiator and engine
M78 Engine number, stamped-in
MA9 Engine mountings, for off-road use

Clutch & transmission

G81 Clutch, reinforced
GC2 Transmission G 240-16/11.7-0.69
N55 Transmission oil cooling
GS7 Telligent gearshift system II
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
QF9 Rear spring, 18.0 t, hard, 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. 204G54 90 3x 12.00 R 24 Cross country Goodyear ORD
2.A. 204G54 90 4x 12.00 R 24 Cross country Goodyear ORD
3.A. 204G54 90 4x 12.00 R 24 Cross country Goodyear ORD



PT ALUN INDAH

Authorized Mercedes-Benz Dealer

Frame and components attached to frame

CL9	Steering LS 6/LS 8
*>>>>	Implement carrier, left
KS2	Main tank, 300 l, steel
K40	Tank-cap lock
K45	Screen, tank filler neck
KH3	Exhaust pipe raised, behind cab
KH9	Exhaust system, repositioned further back
P44	Mudguard, for chassis transit
C63	Bumper, steel version
C95	Deletion, rear underride guard (EC)
Q18	End crossmember, bolted

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)

Cab exterior

F07	S cab
F24	Cab rear wall, straight
F35	Cab rear wall with window
FL3	Cab mountings, rear, reinforced
FL6	Cab mountings, standard
FC7	Windows, tinted, without sun filter
D25	Roof hatch/vent, roof
FE6	Cab steps, movable
FS2	Wide-angle mirror on driver's side, heated
FT0	Exterior rear-view mirror, grooved cover
*>>>>	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





PT ALUN INDAH

Authorized Mercedes-Benz Dealer

JW0	Reversing warning device
*>>>>	Outside temperature gauge
*>>>>	Fuel consumption display
*>>>>	Telligent Maintenance System
ET1	Voltage transformer, 24 V/12 V, 8 A
*>>>>	Entrance step light
HF1	Construction-site filter
*>>>>	Air controlled heating/ventilation system
H03	Air conditioning system

Electrics / electronics

*>>>>	Batteries 2x12V 165 AH
E84	Battery box, lockable
*>>>>	Alternator 28 V / 80 A
L10	Headlamps, left-side traffic
L30	Protective grilles, headlamps
*>>>>	Headlamp range adjuster
*>>>>	Headlights with transparent lenses (H7)
*>>>>	6-part tail light cluster with reflector
L58	Rotating beacon, yellow
*>>>>	Indicator transmitter for extra indicator lamps
MK6	Speed limiter, electronic, 85 km/h
MD9	Cruise control
XW9	Deletion, noise reduction measures
Y20	Tool kit, export
Y74	Jack, 25 t
YK4	Compressed-air gun, supplied loose
XK3	Powertrain warranty, Gen. Terms/Con., 3 yrs/250000 km
XV6	New Actros
X42	Labels/publications, English
Z01	Country-specific version
ZZ4	Vehicle, for left-side traffic

Additional equipment

*KCWM Chassis adapted on rear axles for heavy application



Technical data	Mercedes-Benz Actros 3939 K
-----------------------	------------------------------------

Model: Mercedes-Benz Actros
 Vehicle type: 3939 K
 Drivetrain: 6X4
 Chassis variant: Tipper chassis
 Cab: S-Cab
 Engine power: 290 kW(394 HP)
 Wheelbase: 3900 mm
 Gross vehicle weight: 40000 kg
 Steering type: right

Major unit overview

	Code	Brief description
Engine	MX3	Engine, V6, LA, 290 kW (394 hp), 1800 rpm
Gearbox	GC2	Transmission G 240-16/11.7-0.69
Steering	CL9	Steering LS 6/LS 8
Battery		Batteries 2x12V 165 AH
Front rims	R28	Tapered rims, 8.50-24, for 12.00-24
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:	204G54 90	3 x 12.00 R 24	Cross country	Goodyear
2nd Axle:	204G54 90	4 x 12.00 R 24	Cross country	Goodyear
3rd Axle:	204G54 90	4 x 12.00 R 24	Cross country	Goodyear

Dynamic tyre radius 595 mm

Engine data

Max. power 290 kW (394 HP)
 Max. torque 1850 Nm at 1080 rpm
 Cubic capacity 11946 cm³
 Theoretical maximum speed: 98 km/h
 (without speed limiter)



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	80	61	30
Train	40000	98	80	61	30

	Gross weight [kg]	Gradeability [%]				
		Maximum	Restart	60 km/h	80 km/h	85 km/h
Solo	40000	51.0	44.7	3.0	2.0	1.6
Train	40000	51.0	44.7	3.0	2.0	1.6

	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	1107	1476	1569
Train	40000	3	98	1107	1476	1569

Axle load distribution (kg)

	1. FA	2.FA	1.RA	2.RA	Total
Kerb weight	5222	0	2269	2269	9760
Payload / fifth wheel load	3778	0	13731	13731	30240
Gross vehicle weight	9000	0	16000	16000	40000
Gross combination weight					40000

Kerb weights with Driver (75kg), Tools (25kg), Underride protection (front/rear) (0kg), Add. equipment (0kg), Spare wheel (157kg), 100% of tankful (308kg).

Optional equipment is not considered in the weight calculation.





PT ALUN INDAH

Authorized Mercedes-Benz Dealer

Fluid capacities

Engine oil	29.00	to	35.00	1. front axle	0.00	+	0.00		
Engine coolant	44.00		44.00	2. front axle	0.00	+	0.00	+	0.00
Gearbox/PTO	15.00	+	0.00	1. rear axle	12.00	+	6.50	+	3.50
Transfer box	0.00			2. rear axle	12.00	+	6.50		
Steering	permanent								

(Figures refer to standard specification and are quoted in litres)

All data without engagement!

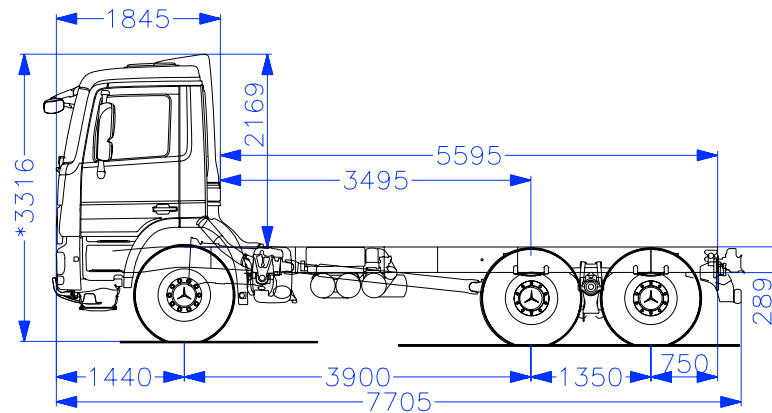




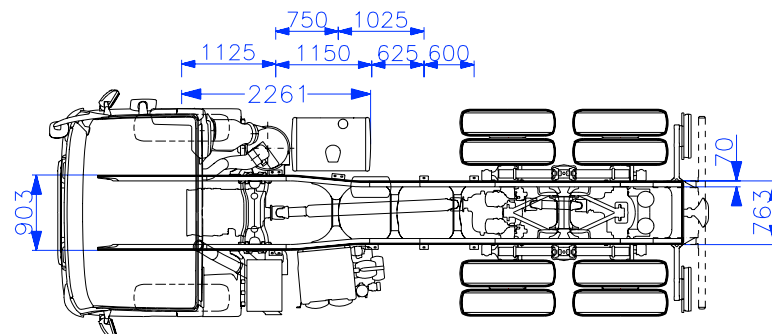
PT ALUN INDAH

Authorized Mercedes-Benz Dealer

Side view*



Plan view*

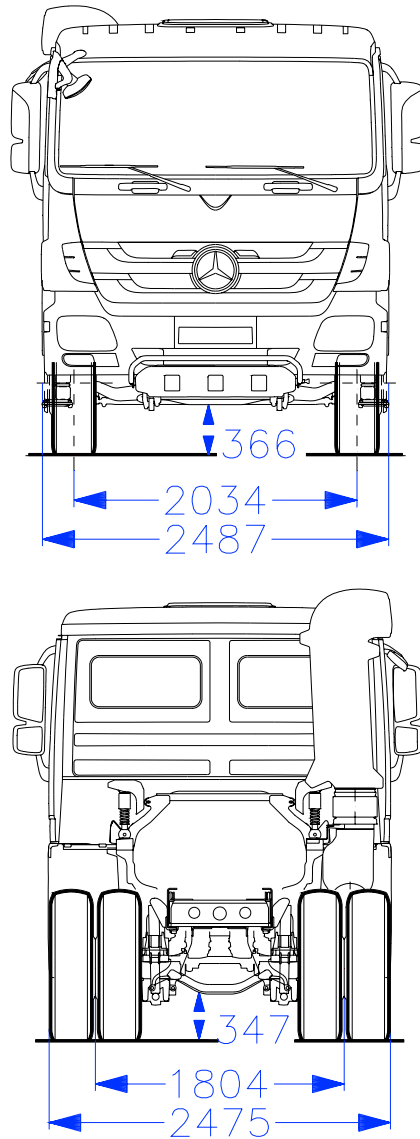




PT ALUN INDAH

Authorized Mercedes-Benz Dealer

Front / rear view*



All data without engagement!

* All dimensions refer to the standard vehicle





**Performance Calculation:
Graphics & Tables**

Mercedes-Benz Actros 3939 K

Drivetrain

Engine: MX3 Engine, V6, LA, 290 kW (394 hp), 1800 rpm
Gearbox: GC2 Transmission G 240-16/11.7-0.69
Rear axle: AM6 Rear axle H7, 16.0 t, crown wheel 300
Axle ratio: 6.000
Tyres: 1st Axle: 204G54 90 12.00 R 24
2nd Axle: 204G54 90 12.00 R 24
3rd Axle: 204G54 90 12.00 R 24
Dynamic tyre radius 595 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

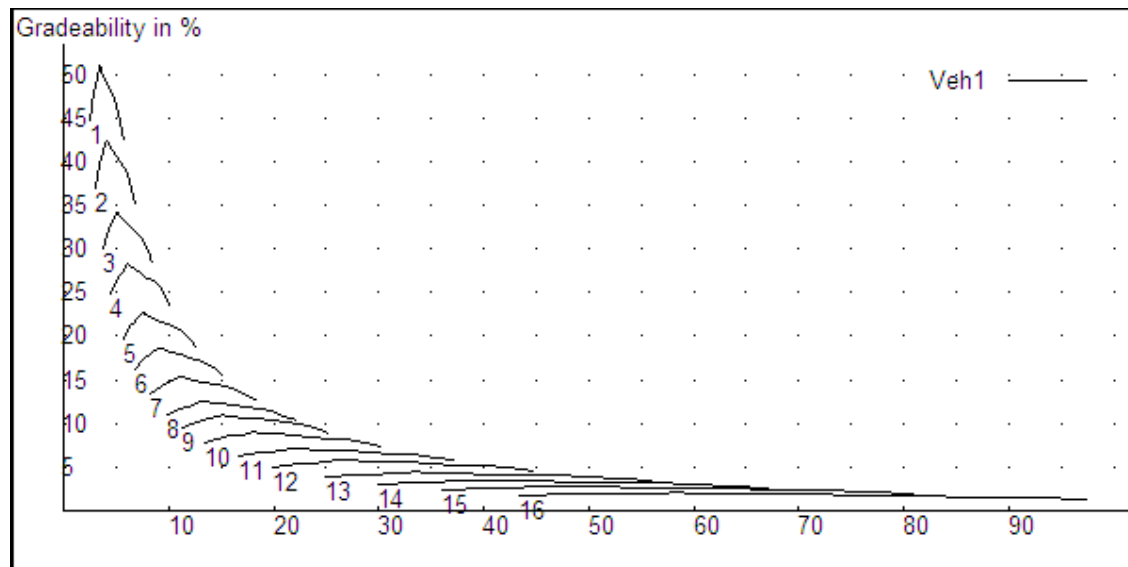
Road speed reference points (km/h): 50 60 70 80 90 100

Gross combination weight: 40000 kg
Load on driven axles: 32000 kg

Grade A: 0.5 %
Grade B: 1.0 %



Gradeability Diagram (theoretical)



Gradeability Table (theoretical)

Gear	Nmin		mNmax		Nmax	
	800	rpm	1080	rpm	1800	rpm
Gear	Km/h	Grd/%	Km/h	Grd/%	Km/h	Grd/%
-1	3	41	4	46	6	38
-2	3	34	5	38	8	32
1	3	45	3	51	6	42
2	3	37	4	42	7	35
3	4	30	5	34	8	28
4	5	25	6	28	10	23
5	6	20	8	23	13	19
6	7	16	9	19	15	15
7	8	13	11	15	18	13
8	10	11	13	13	22	10
9	11	10	15	11	25	9
10	13	8	18	9	30	7
11	17	6	22	7	37	6
12	20	5	27	6	45	5
13	25	4	34	4	56	3
14	30	3	40	4	67	3
15	36	2	49	3	81	2
16	43	2	59	2	98	1

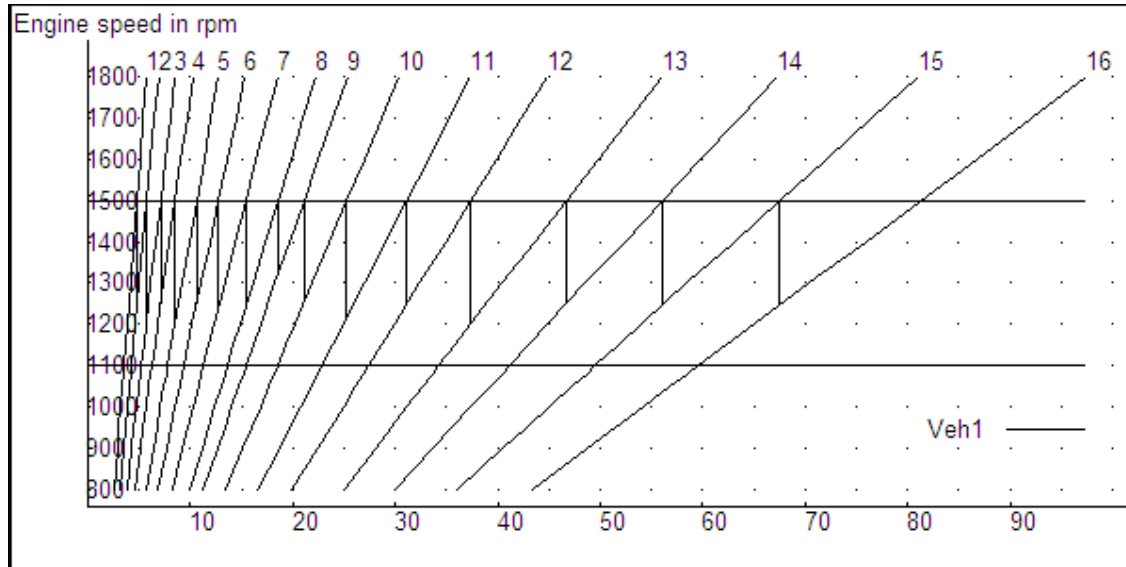
Maximum road speed on various grades:

1%: 98Km/h 2%: 98Km/h 3%: 80Km/h 4%: 61Km/h





Engine Diagram RPM



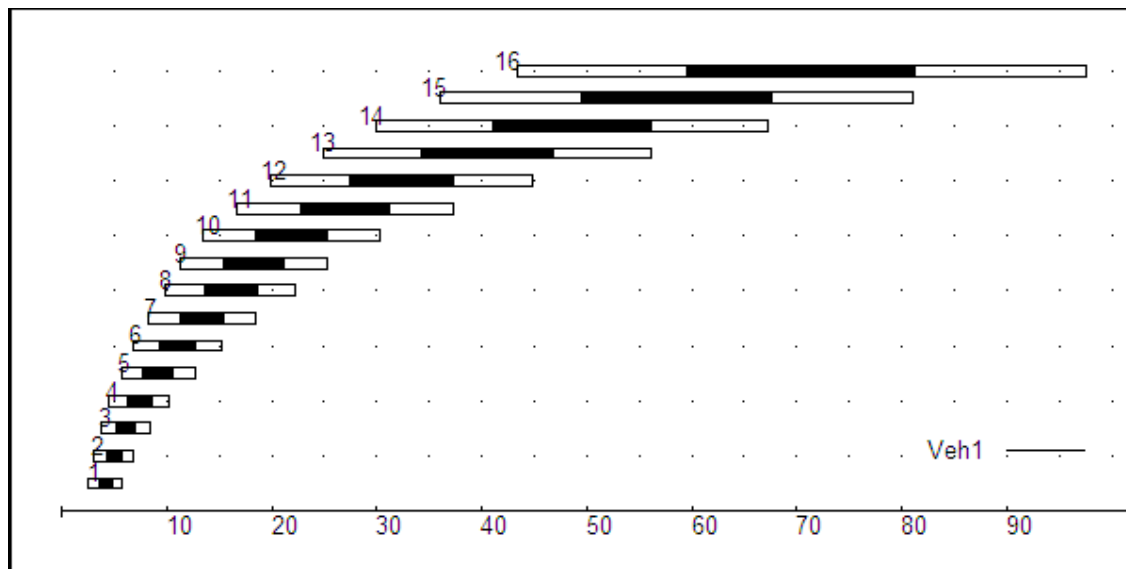
Engine Table RPM

	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	1605	0	0	0	0	0
14	1337	1605	0	0	0	0
15	1110	1332	1554	1776	0	0
16	923	1107	1292	1476	1661	0





Road speed Diagram



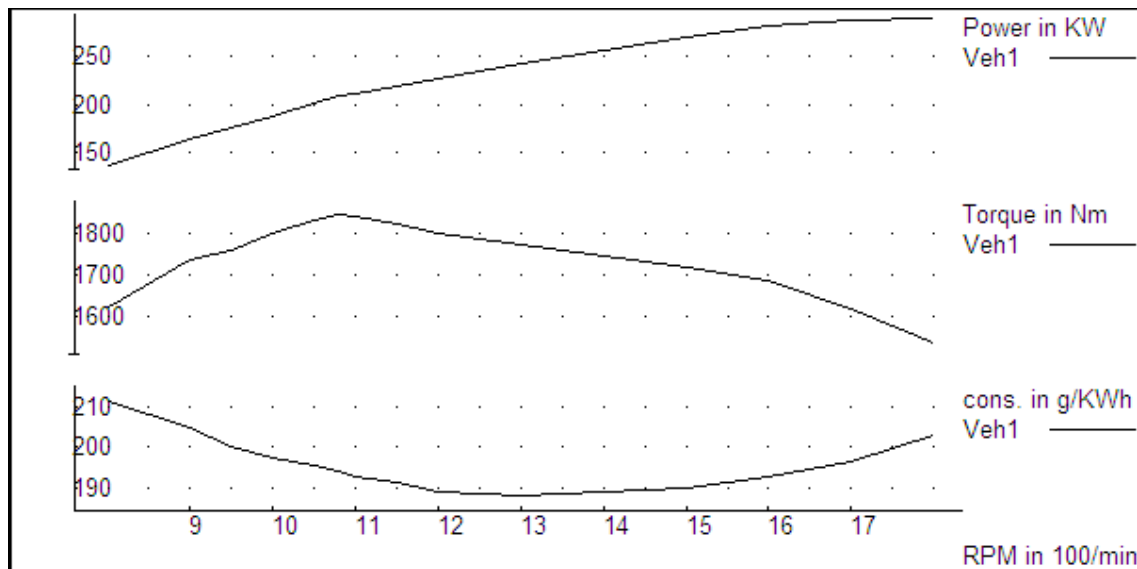
Road Speed Table

	n/ min 800	n/ 1000 1000	n/ Green 1100	n/ MDmax 1080	n/ 1500	n/ Green 1800	max
Gear	Km/h	Km/h	Km/h	Km/h	Km/h	Km/h	
-1	3	4	4	4	5	6	
-2	3	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	8	
4	5	6	6	6	9	10	
5	6	7	8	8	11	13	
6	7	8	9	9	13	15	
7	8	10	11	11	15	18	
8	10	12	14	13	19	22	
9	11	14	15	15	21	25	
10	13	17	19	18	25	30	
11	17	21	23	22	31	37	
12	20	25	27	27	37	45	
13	25	31	34	34	47	56	
14	30	37	41	40	56	67	
15	36	45	50	49	68	81	
16	43	54	60	59	81	98	





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
800	136	1622	211
900	164	1736	204
950	175	1761	200
1000	188	1799	197
1050	202	1833	196
1080	209	1848	194
1100	212	1841	193
1150	220	1823	191
1200	227	1803	189
1300	242	1776	188
1400	256	1745	189
1500	270	1718	190
1600	283	1687	193
1700	288	1618	196
1800	290	1539	203

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

All data without engagement!

