



PT ALUN INDAH

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Mercedes-Benz Actros 4043 S

Model:	Mercedes-Benz Actros
Vehicle type:	4043 S
Drivetrain:	6X4
Chassis variant:	Semitrailer tractor
Cab:	S-Cab
Engine power:	315 kW (428 HP)
Wheelbase:	3300 mm
Gross combination weight:	120 ton
Steering type:	right
Fifth wheel position:	975 mm



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





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Vehicle equipment

Engine

- M49 Tandem air cleaner system
- >>> Radiator protection, bottom
- ML3 High-speed fan, with belt drive

Clutch & transmission

- G81 Clutch, reinforced
- GS7 Telligent gearshift system II
- NH2 PTO, layshaft MB 131-2c

Axles & suspension

- AL5 Front axle 9.0 t
- AM6 Rear axle H7, 16.0 t, crown wheel 300
- QD3 Front spring, 9,0 t, asymmetric
- AR1 Axle ratio 1 = 6.000 (HL7)
- QF8 Rear spring, 18,0 t, for axle spacing 1450 mm

Wheels & tyres

- R28 Tapered rims, 8.50-24, for 12.00-24
- R04 Wheel nut cap
- 1.A. 204G54 90 3x 12.00 R 24 Cross country Good Year ORD
- 2.A. 204G54 90 4x 12.00 R 24 Cross country Good Year ORD
- 3.A. 204G54 90 4x 12.00 R 24 Cross country Good Year ORD

Frame and components attached to frame

- KX6 Main tank, right, 550 l, alumin., large cross-section
- K40 Tank-cap lock
- K45 Screen, tank filler neck
- KH3 Exhaust pipe raised, behind cab
- KH9 Exhaust system, repositioned further back
- C63 Bumper, steel version
- QJ7 5th-wheel coupling, Jost 38-C1, 3.5-inch, H=190 mm,
- C69 Support bracket for fifth-wheel coupling, extended
- QM8 Assembly plate, 40 mm, for 36t 5th-wheel coupling

Brake system

- BB6 Drum brakes on front and rear axle
- B51 Independent trailer brake (export)
- BD3 Brake and electrical connections, high

Cab exterior

- F24 Cab rear wall, straight
- FL3 Cab mountings, rear, reinforced
- FL6 Cab mountings, standard
- FC7 Windows, tinted, without sun filter
- D25 Roof hatch/vent, roof
- J70 Air horn





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Cab interior

- SG5 Driver's standard suspension seat, Isringhausen
- SF0 Fold-up seat, co-driver
- JK3 Inst. cluster, graphics-capable display, eco-meter
- J10 Speedometer, km
- JW0 Reversing warning device
- ET1 Voltage transformer, 24 V/12 V, 8 A
- H03 Air conditioning system

Electrics / electronics

- E84 Battery box, lockable
- EC6 Trailer socket, 15-pin
- L10 Headlamps, left-side traffic
- L58 Rotating beacon, yellow

Additional scopes

- Y20 Tool kit
- Z01 Country-specific version
- ZZ4 Vehicle, for left-side traffic
- KGYB Prop shaft greasable





Technical data	Mercedes-Benz Actros 4043 S
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Cab: S-Cab
Engine power: 315 kW(428 HP)
Wheelbase: 3300 mm
Gross vehicle weight: 40000 kg
Steering type: right
Fifth wheel position: 975 mm

Major unit overview

	Code	Brief description
Engine	MX0	Engine, V6, LA, 315 kW, 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 Good Year
2nd Axle:	204G54 90	4 x 12.00 R 24	Cross country Good Year
3rd Axle:	204G54 90	4 x 12.00 R 24	Cross country Good Year

Dynamic tyre radius 595 mm

Engine data

max. power 315 kW (428 HP)
max. torque 2200 Nm at 1080 rpm
Cubic capacity 11946 cm³
Theoretical maximum speed: 110 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	110	76	63	28
Train	40000	110	76	63	28

	Gross weight [kg]	Gradeability [%]				
		Maximum	Restart	60 km/h	80 km/h	85 km/h
Solo	40000	54.0	38.9	3.7	2.4	2.2
Train	40000	54.0	38.9	3.7	2.4	2.2

	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	4	110	0	1312	1394
Train	40000	4	110	0	1312	1394

Axle load distribution (kg)

	1. FA	2.FA	1.RA	2.RA	Total
Kerb weight	4541	0	2540	2540	9620
Payload / fifth wheel load	4459	0	13460	13460	30380
Gross vehicle weight	9000	0	16000	16000	40000
Gross combination weight					40000

Kerb weights with Driver (75kg), Tools (24kg), Spare wheel (157kg), 100% of tankful (515kg).
Optional equipment is not considered in the weight calculation.



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Fluid capacities

Engine oil	29.00	to	35.00	1. front axle	0.00	+	0.00		
Engine coolant	40.00		40.00	2. front axle	0.00	+	0.00	+	0.00
Gearbox/PTO	10.00	+	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!

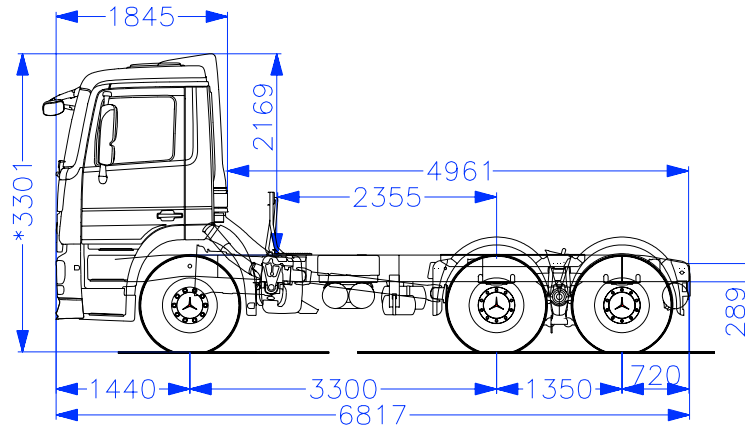




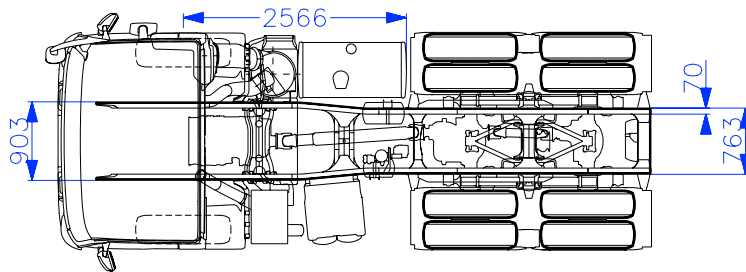
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Side view*



Plan view*

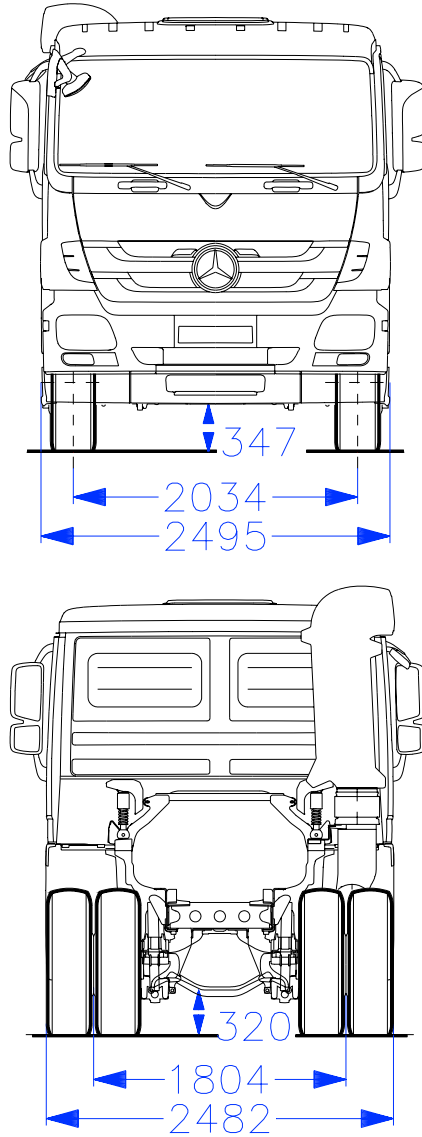




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Front / rear view*



All data without engagement!

* All dimensions refer to the standard vehicle



**Performance Calculation:
Graphics & Tables**

Mercedes-Benz Actros 4043S

Drivetrain

Engine: MX0 Engine, V6, LA, 315kW, 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: 5.333
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: 95 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

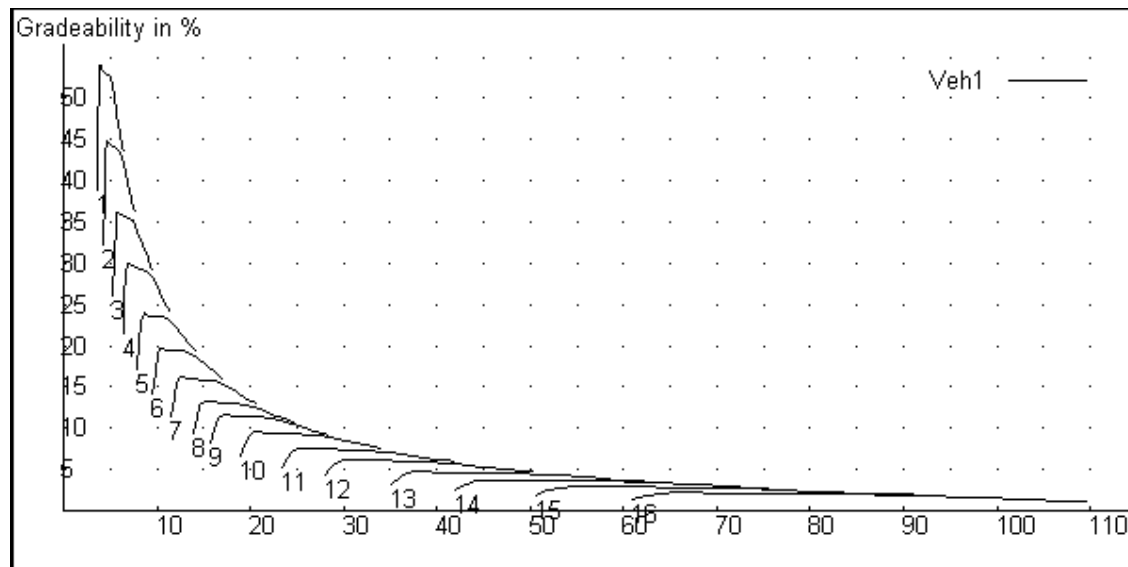
Road speed reference points (km/h): 50 60 70 80 90 100

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

Grade A: 0.5 %
Grade B: 1.0 %



Gradeability Diagram (theoretical)



Gradeability Table

	Nmin 1000 rpm		mNmax 1080 rpm		Nmax 1800 rpm	
Gear	Km/h	Grd/%	Km/h	Grd/%	Km/h	Grd/%
-1	4	35	4	49	7	39
-2	5	29	5	41	9	33
1	4	39	4	54	6	44
2	4	32	5	45	8	36
3	5	26	6	36	10	29
4	6	21	7	30	12	24
5	8	17	9	24	14	19
6	10	14	10	20	17	16
7	12	12	12	16	21	13
8	14	9	15	13	25	11
9	16	8	17	12	28	9
10	19	7	20	10	34	8
11	23	5	25	8	42	6
12	28	4	30	6	50	5
13	35	3	38	5	63	4
14	42	2	45	4	76	3
15	51	2	55	3	91	2
16	61	1	66	2	110	1

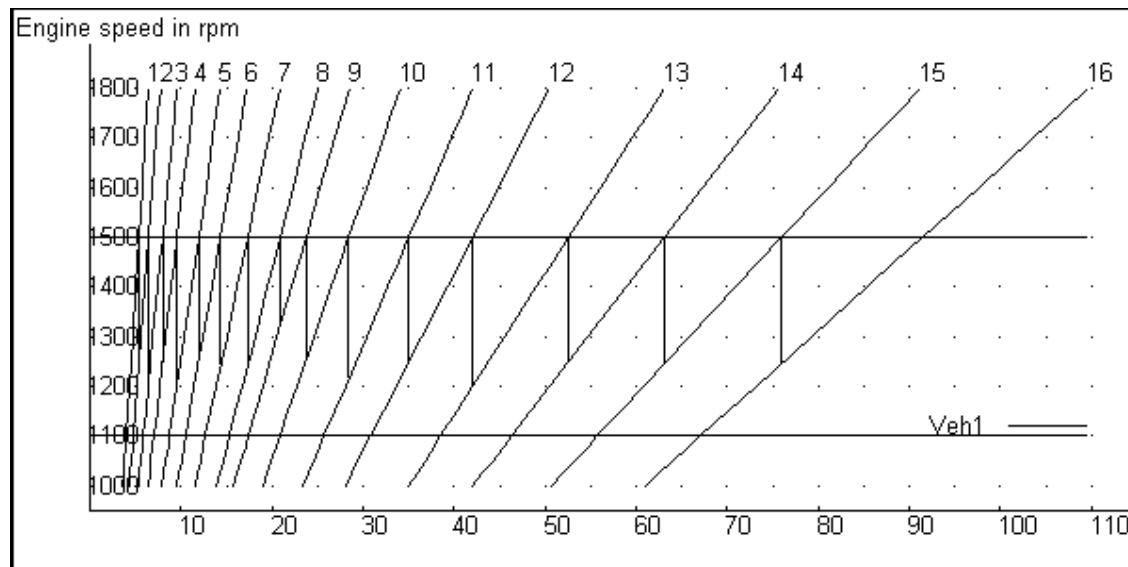
Maximum road speed on various grades:

1%: 110Km/h 2%: 110Km/h 3%: 76Km/h 4%: 63Km/h





Engine Diagram RPM



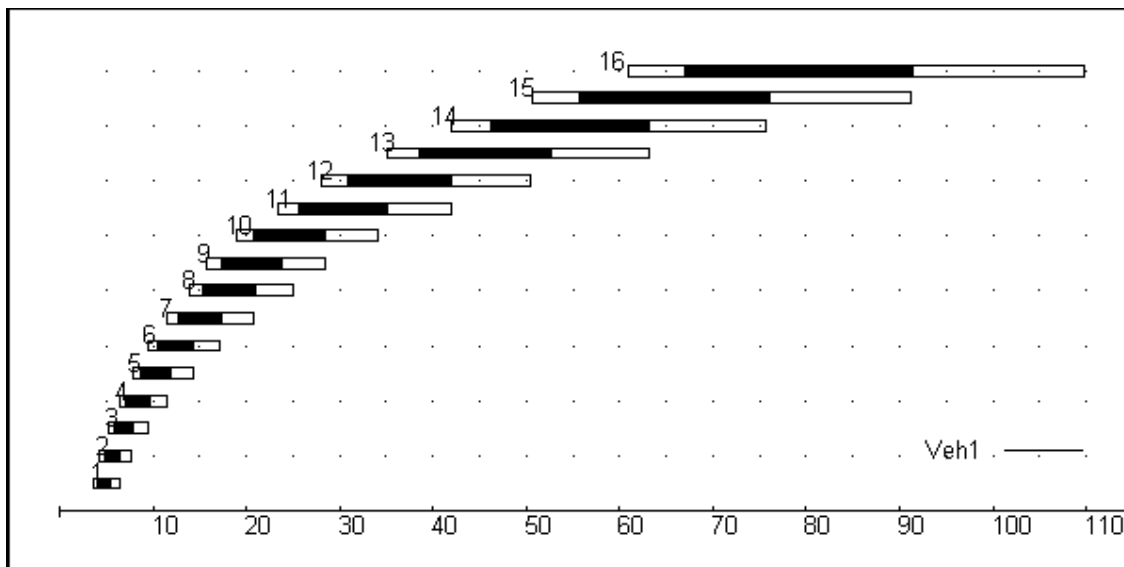
Engine Table RPM

	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	1783	0	0	0	0	0
13	1426	1712	0	0	0	0
14	1189	1426	1664	0	0	0
15	0	1184	1381	1579	1776	0
16	0	0	1148	1312	1476	1640





Road speed Diagram



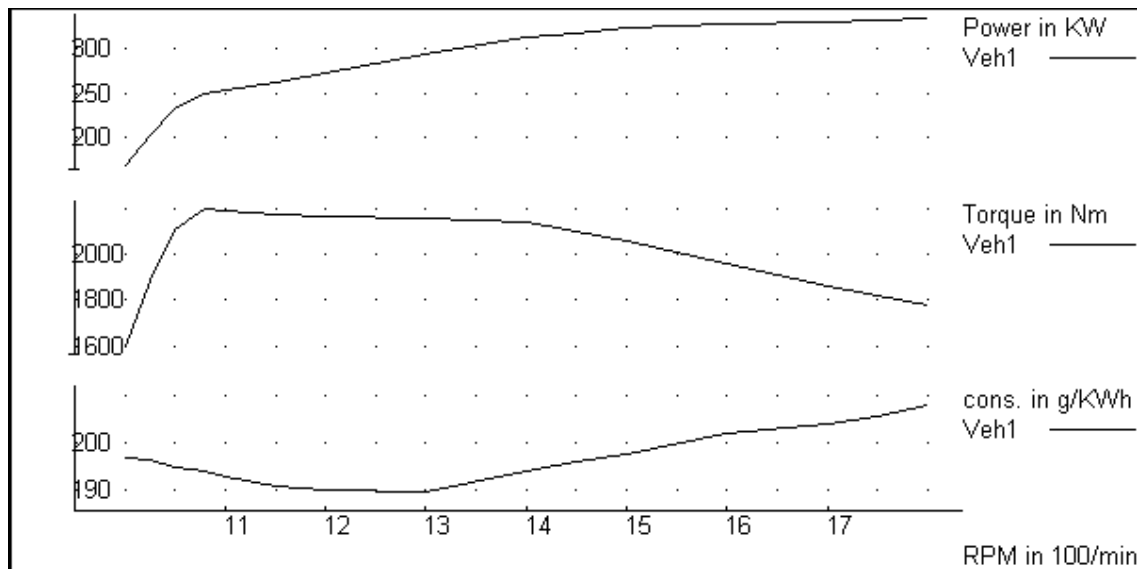
Road Speed Table

	n/ min 1000	n/ 1000	n/ Green 1100	n/ MDmax 1080	n/ 1500	n/ Green max 1800
Gear	Km/h	Km/h	Km/h	Km/h	Km/h	Km/h
-1	4	4	4	4	6	7
-2	5	5	5	5	7	9
1	4	4	4	4	5	6
2	4	4	5	5	6	8
3	5	5	6	6	8	10
4	6	6	7	7	10	12
5	8	8	9	9	12	14
6	10	10	11	10	14	17
7	12	12	13	12	17	21
8	14	14	15	15	21	25
9	16	16	17	17	24	28
10	19	19	21	20	28	34
11	23	23	26	25	35	42
12	28	28	31	30	42	50
13	35	35	39	38	53	63
14	42	42	46	45	63	76
15	51	51	56	55	76	91
16	61	61	67	66	91	110





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
1000	167	1593	197
1025	202	1882	196
1050	232	2110	195
1080	249	2200	194
1100	253	2195	193
1150	262	2176	191
1200	273	2171	190
1300	294	2157	190
1400	314	2139	194
1450	319	2101	196
1500	324	2063	198
1600	329	1961	202
1700	332	1863	204
1750	333	1817	206
1800	335	1777	208

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

All data without engagement!

