

ACHTUNG!

Prüfprotokoll gilt nur für
Bremsbelagtyp **BREMSKERL 6386**
für SNK 420 x 180
Wird seit KW19/04 nicht mehr verbaut,
siehe auch [Wichtige Info 27](#)

ATTENTION!

Test Report is only valid for
Brake Pad type **BREMSKERL 6386**
for SNK 420 x 180
From week 19/04 no longer built,
see also [Important Info 27](#)

ATTENTION!

Procès verbale n'est valable que pour
Garniture de frein type **BREMSKERL 6386**
pour SNK 420 x 180
Dès sem. 19/04 ne sera plus montée,
Voir aussi [Important Info 27](#)

Test Report

No. TDB 0381 dated 14.06.99

for application of Annex VII Directive 71/320/EEC

1 IDENTIFICATION

1.1 Axle

Manufacturer: OTTO SAUER Achsenfabrik Keilberg
D-63854 Bessenbach

Make: SAF

Type: SNK 4218-11S

Model: -

Technically permissible axle load P_e ¹⁾: See appendix 1 dated 11.11.98

1.2 Brake

Manufacturer: See 1.1

Make: SAF

Type: SNK 420x180

Model:

Technically permissible camshaft
input torque $C_{max,e}$: 2800 Nm
(for calculation: 2250 Nm at 6,5 bar)

Brake drum - Internal diameter: 420 mm

- Mass: See appendix 1 dated 11.11.98

- Material: Cast iron (grey cast iron)

Brake lining - Manufacturer: BREMSKERL-Reibbelagwerke
Emmerling GmbH & Co. KG
D-31629 Estorf

- Type: BREMSKERL 6386

- Identification: Type indication at front

- Width: 180 mm

- Thickness: 13...20,2 mm (sickle-shaped)

- Surface area: 1322 cm²

- Method of attachment: Rivited

Brake geometry: See appendix 1 dated 11.11.98
See appendix 2 dated 11.11.98

1.3 Wheel (Single)

Rim diameter D_e : See appendix 1 dated 11.11.98

Dimensions: See appendix 1 dated 11.11.98

¹⁾ See sheet 3/3



Test Report No. : TDB 0381
 Sheet : 2 / 3
 Date : 14.06.99

Manufacturer : SAF
 Type of axle : SNK 4218-11S

1.4 Tyres

Dynamic rolling radius R_e
 at reference load P_e : See appendix 1 dated 11.11.98

1.5 Actuation

Brake actuator -Manufacturer: GRAU
 - Type: Diaphragm brake actuator
 - Model: 30 (120 361 101)
 Lever length l_e : 150 mm ³⁾ 152 mm ⁴⁾

2 RECORD OF TEST RESULTS ²⁾

(corrected to take account of rolling resistance $\hat{=} 0,01P_e$)

2.1 In the case of vehicles of categories O₂ and O₃ ³⁾

Test type:	0	I	
Annex VII, Appendix 1, point:	3.5.1.2	3.5.2.2/3	3.5.2.4
Test speed	km/h	40	40
Brake actuator pressure p_e	bar	6,0	6,0
Braking time	min	-	2,55
Brake force developed T_e	daN	6559	786
Brake efficiency T_e/P_e	-	0,60	0,07
Actuator stroke s_e	mm	41	56
Camshaft input torque C_e	Nm	1706	1706
$C_{o,e}$	Nm	30	30

2.2 In the case of vehicles of category O₄ ⁴⁾

Test type:	0	III	
Annex VII, Appendix 1, point:	3.5.1.2	3.5.3.1.2	3.5.3.2
Test speed			
initial	km/h	60	60
final	km/h	0	0
Brake actuator pressure p_e	bar	5,9	5,9
Number of brake applications	-	-	20
Duration of braking cycle	s	-	60
Brake force developed T_e	daN	7513	3377
Brake efficiency T_e/P_e	-	0,68	0,31
Actuator stroke s_e	mm	43	56
Camshaft input torque C_e	Nm	1698	1698
$C_{o,e}$	Nm	30	30

^{2) 3) 4)} See sheet 3/3



Test Report No. : TDB 0381
Sheet : 3 / 3
Date : 14.06.99

RWTÜV

Manufacturer : SAF
Type of axle : SNK 4218-11S

3 NAME OF TECHNICAL SERVICE CONDUCTING THE TEST

RWTÜV Fahrzeug GmbH
Technischer Dienst für Bremsanlagen
D-45307 Essen

4 DATE OF TEST: 30.01.97 and 03.06.98

5 This test has been carried out and the result reported in accordance with Directive 71/320/EEC as last amended by Directive 98/12/EC and Annex VII, Appendix 1.

Essen, 14.06.99



Dipl.-Ing. Kaesler



LABORATORY FOR VEHICLE TECHNOLOGY
Testing Laboratory for Braking Systems
according to Directive 71/320/EEC in the
version of Directive 98/12/EC

6 APPROVAL AUTHORITY, if different from the technical service

Flensburg, 24 JUNI 1999

i. A.



7 TEST DOCUMENTS

- / Appendix 1: Dimensions brake drum/wheel/tyre (3 sheet)
- / Appendix 2: Brake geometry

- 1) Calculation with $g = 10 \text{ m/s}^2$
- 2) $P_e = 11000 \text{ daN}$, $R_e = 545 \text{ mm}$, $X_e = 227 \text{ mm}$
- 3) Rolling road dynamometer test, $l_e = 150 \text{ mm}$
- 4) Inertia dynamometer test, $l_e = 152 \text{ mm}$

RWTÜV Fahrzeug GmbH - Institute for Vehicle Technology, Adlerstr. 7, D - 45307 Essen
The Testing Laboratory is accredited by the Accreditation Body of the German Motor Vehicles Department (Kraftfahrt-Bundesamt) to conduct inspections according to EG-TypV, StVZO and FzTV (KBA-P 00009-95).

