



Heavy Vehicle Specialist Certificate

Heavy Vehicle Specialist Inspector and Inspecting Organisation

Heavy Vehicle Specialist Inspector's Name (PRINT IN CAPS)

RONALD STUART PRATT

ID

TRSP

Vehicle Registration*

VIN / Chassis Number

7A9D20013A0023859

Component being certified:

Chassis Modification

Load Anchorage

Log Bolsters

Towing Connection

Brakes

SRT

Certification Category

HVEK

Description of Work

Certify to Brake Rule 32015

Code/Standard Certified to

NZ/HUB Rule Schedule 5

Component Load Rating(s)

General Drawing Number(s)

NA

Supporting Documents

Brake Cert No RP00104

PREV Valve exemption No B1002588

*Special Conditions

EBS Control - Warning light must illuminate when ignition-switched on and extinguish immediately or when vehicle reaches 7kph

Certification Expiry Date (if applicable)

NA

or

Hubodometer Reading (whichever comes first)

Grid for hubodometer reading

Declaration

I the undersigned, declare that I am the Heavy Vehicle Specialist Inspector identified above and I hold a current valid appointment. I certify that the above mentioned vehicle component's design, manufacture and installation, and this certification complies in all respects with the Land Transport Rule Vehicle Standards Compliance 2002 and my Deed of Appointment. To the best of my knowledge the information contained in this Certificate is true and correct.

Designer's ID (if certified by a manufacturer)

Inspector's / Delegate's Signature

R Pratt

*Delegate's Name (PRINT IN CAPS)

Date

19/01/2010

Number

333632

COF Vehicle Inspector ID:

COF Vehicle Inspector Signature:

Date

All fields excluding those marked with * must be completed before this certificate can be accepted.



NZ TRANSPORT AGENCY
WAKA KOTAHI

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20 Ballance Street
PO Box 5084
Lambton Quay
Wellington 6145
New Zealand
T 64 4 894 5200
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www.nzta.govt.nz

Document: B1002588
Exemption: HVB09/222

**EXEMPTION FROM SPECIFIED REQUIREMENTS OF LAND TRANSPORT RULE:
Heavy-vehicle Brakes 2006, Rule 32015**

Pursuant to Section 166(1) of the Land Transport Act 1998, and pursuant to the powers delegated to me, I Andrew Tyacke, Vehicle Compliance Specialist, hereby exempt the motor vehicle specified in Schedule 1 hereto from the section of Land Transport Rule: Heavy-vehicle Brakes 2006 (the Rule) listed in Schedule 2, subject to the conditions specified in Schedule 3.

SCHEDULE 1:

Make/Model: **Domett Truck & Trailer LTD, 4 Axle Full Trailer**
VIN/Chassis: **7A9D20013A0023859**

SCHEDULE 2: - Exempted Requirement

Section 2.3(9); The parking brake of a vehicle, whether or not it is being operated as a combination vehicle, must be able to be applied by the driver from the normal driving position using one control only.

SCHEDULE 3: - Conditions of this exemption:

- 1) The vehicle must be fitted with a Wabco park-release emergency valve (PREV), Part Number: 971 002 900 0.
- 2) The vehicle must be fitted with the Wabco PREV name plate, Part Number 971 002 103 4, adjacent to the PREV.
- 3) The vehicle must still be fitted with a parking brake that complies with all parking brake requirements in the Rule other than the requirement in Clause 2.3(9) of the Rule.
- 4) The installation of the PREV must be approved in writing by Transport Specialties Limited (Transpecs); Transpecs must keep a written record of their approval.
- 5) Transpecs must provide full operator training in the use of the PREV and furnish the operator with full written operating instructions for the PREV.
- 6) The vehicle must not be modified in any way while operating under this exemption.
- 7) A copy of this exemption must be kept in the cab of the combination vehicle.
- 8) This exemption can be revoked at any time in writing by the NZ Transport Agency.

Signed at Wellington this 6th day of January 2010

Andrew Tyacke
Vehicle Compliance Specialist
Vehicles Unit

NOTICE TO VEHICLE OPERATOR

This trailer is equipped with an Electronic Brake System.

To comply with the New Zealand Heavy Vehicle Brake RULE, it must be used only in conjunction with a truck/tractor equipped with a 5 or 7 pin ABS/EBS power supply socket.

Failure to connect to such supply invalidates Brake Rule compliance.

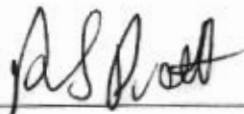
The trailer ABS/EBS warning light on the towing vehicle dashboard must illuminate when the ignition is switched on and extinguish when the vehicle is in motion.

If the light does not illuminate when ignition is switched on, the system must be checked. If the light remains illuminated when the vehicle is in motion, Brake Rule compliance is compromised. Repairs must be made as soon as possible.

NB:

If this vehicle is fitted with mechanical (spring) suspension, the load sense valving has been adjusted to suit exactly the performance of the original springs. In event of replacement being required, original equipment springs **must** be fitted to ensure correct ongoing operation. Fitment of non genuine springs can affect operation and therefore, compliance.

If you are unsure of your responsibilities and/or obligations, please contact either the vehicle manufacturer or myself.



R S Pratt
(TRSP HVEK 09 980 7300)

NOTICE TO VEHICLE OPERATOR

THIS VEHICLE HAS A BRAKE SYSTEM WHICH HAS BEEN DESIGNED AND FITTED IN ACCORDANCE WITH THE NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015: SCHEDULE 5.

IF THIS VEHICLE IS OPERATED IN CONJUNCTION WITH NON-CODED VEHICLES, THERE MAY BE OPERATIONAL FACTORS WHICH NEED TO BE TAKEN INTO CONSIDERATION.

PLEASE REFER TO THE CERTIFIER FOR FURTHER INFORMATION.

EXCERPT FROM NZ HEAVY VEHICLE BRAKE RULE 32015

10.1 Responsibilities of operators

A person who operates a vehicle must ensure that the vehicle complies with this Rule

10.2 Responsibilities of repairers

A person who repairs or adjusts a brake must ensure that the repair or adjustment:

- (a) does not prevent the vehicle from complying with the rule : and*
- (b) complies with Land Transport Rule: Vehicle Repair 1998.*

10.3 Responsibilities of modifiers

A person who modifies a vehicle so as to affect the braking performance of the vehicle must:

- (a) ensure that the modification does not prevent the vehicle from complying with this rule: and*
- (b) notify the operator that the vehicle must be inspected and. If necessary. Certified by a person or organisation appointed to carry out specialist inspection and certification of heavy vehicle brakes.*

10.5 Responsibilities of manufactures and retailers

A person may manufacture, stock, or offer for sale a brake or its components. Intended for fitting to a vehicle to be used on New Zealand roads, only if that brake or component:

- (a) complies with this Rule: and*
- (b) does not prevent a repair to a vehicle, its structure, systems, components and equipment from complying with this Rule.*

IF YOU ARE UNSURE ABOUT YOUR RESPONSIBILITIES, PLEASE CONTACT THE VEHICLE MANUFACTURER, OR MYSELF.

COMPLAINTS. *Complaints and Warranty issues which relate to Brake Certification will be acknowledged within 7 working days and a resolution proposed within 25 working days. Resolution of complaints and Warranty issues is subject to Transpecs Warranty policy. Customers have the right to appeal to the Land Transport Safety Authority if dissatisfied with a Compliance issue. (refer LTNZ Deed Of Appointment Para 47.4) Land Transport NZ Helpdesk 0800 699 000*



.....
R S PRATT
(TRSP HVEK)

WABCO

START-UP PROTOCOL

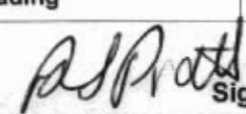
System	Trailer EBS-E	WABCO part number	480 102 064 0
Production date	2009-11-23	Serial number	284007103600
Fingerprint Customer EOL / Customer Development / Flash Program	W 029383 / 2010-01-19 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

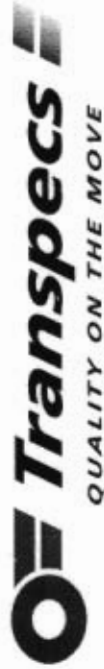
WABCO		TRAILER EBS-E				GGVS/ADR TUEH TB 2007 - 019.00					
HERSTELLER MANUFACTURER CONSTRUCTEUR	Domett				GIO	Pin1	Pin3	Pin4			
TYP TYPE TYPE	4A Full Trailer				1	---	---	---			
FAHRZEUG IDENTIFIKATION CHASSIS NUMBER NUMERO DE CHASSIS	7A9D20013A0023859				2	---	---	---			
BREMSENRECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP70A				3	---	---	---			
POLRADZÄHREZAHL c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUES DENTES c-d e-f	90	90	ABS-System ABS-System Système ABS	4S/3M	4	---	---	---			
RSS RSS RSS	Einfachlenkung Single Type Monte simple	Lenkachs Steering axle Essieu avant			5	DIAG	DIAG	DIAG			
	Zwillingslenkung Twin Type Monte jumele	X	Kipptisches Fahrzeug Critical Trailer Véhicule critique			6	---	---	---		
Subsystems	---				7	---	---	---			

ACHSE AXLE ESSEU	pm (bar)			pm (bar)			pm (bar)			0.7	2.0	---	6.5	0.0
	(kg)	0.6	1.8	(kg)	0.6	1.8	(kg)	0.6	1.8					
1	1550	0.6	1.8	7000	4.2	0.3	1.3	---	5.2	-				
2	1550	0.6	1.8	7000	4.2	0.3	1.3	---	5.2	-				
3	1450	0.5	1.7	7000	4.2	0.4	1.5	---	5.1	-				
4	1450	0.5	1.7	7000	4.2	0.4	1.5	---	5.1	-				
5	0	---	---	0	---	---	---	---	---	-				

Test report number						
Axle		1	2	3	4	5
Actuator type	Service brake	24	24	24	24	0
	Spring brake	0	0	30	30	0
Max. actuator stroke (mm)		75	75	75	75	0
Lever length (mm)		152	152	127	127	0

Diagnostic memory	OK	Warning lamp control	OK
Parameter setting	carried out	Stop light power supply	Not tested
EBS pressure test	OK	Lifting axle test	Not tested
Redundancy test	OK	ECAS distance sensor calibration	Not tested
ABS sensor assignment	OK	Distance sensor Axle load	Not tested
RTR check	Not tested	Leak test	Not tested

Manufacturer	Domett	Vehicle ident. no	7A9D20013A0023859
Vehicle type	4A Full Trailer	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tested by	Ron Pratt	 Signature	
Date	2010-01-19 6:04:41 PM		



P.O.Box 98-971

South Auckland Mail Centre

Ronald Stuart Pratt (TRSP)

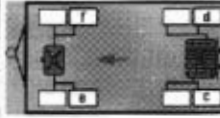
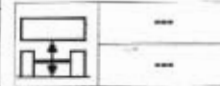
DATE	19-Jan-10	TYPE APPROVED	NO
CERTIFICATE No	RP100104		SAF4FTEBS-E Version
VIN No	7A9D20013A0023859		PREV Valve Exemption
BRAKE CHAMBERS FRONT	TSE 24 @75mm		
BRAKE CHAMBERS REAR	TSE24/30 75mm	LOAD SENSED	Yes EBS Control
SLACK LENGTH FRONT	152mm	TYRE SIZE FRONT	215/75R17.5
SLACK LENGTH REAR	127mm	TYRE SIZE REAR	215/75R17.5
THIS VEHICLE COMPLIES W		N.Z.H.V.B.R	LINING MATERIALFRONT
32015 SCHEDULE 5			LINING MATERIAL REAR
			Bremskerl 6386
			Bremskerl 6386

WABCO**TRAILER EBS-E**

GGVSIADR TUEH TB 2007 - 019.00

HERSTELLER MANUFACTURER CONSTRUCTEUR		Domett		GIO	Pin1	Pin3	Pin4
TYP TYPE TYPE		4A Full Trailer		1	---	---	---
FAHRZEUG IDENTIF. CHASSIS NUMBER NUMERO DE CHASSIS		7A9D20013A0023859		2	---	---	---
BREMSEBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.		TP70A		3	---	---	---
POL-RADREINIGUNG c-d e-f POLS WAGEL TSETH c-d e-f DENTS ROUE DENTÉE c-d e-f		90	90	ABS-System ABS-System Systeme ABS	4S/3M	---	---
RSS	Einzelbereifung Single Tyre Monte simple		Lenkbachse Steering axle Ressieu avant	5	---	---	---
RSS	Zwillingbereifung Twin Tyre Monte jumelle	X	Kipprichtliches Fahrzeug Critical Trailer Vehicule critique	6	---	---	---
Subsystems		---		7	---	---	---

ACHSE AXLE ESSEL	6.5			6.5					6.5	
	pm (bar)	6.5	pm (bar)	0.7	2.0	---	6.5			
1	1550	0.6	1.8	7000	4.2	0.3	1.3	---	5.2	-
2	1550	0.6	1.8	7000	4.2	0.3	1.3	---	5.2	-
3	1450	0.5	1.7	7000	4.2	0.4	1.5	---	5.1	-
4	1450	0.5	1.7	7000	4.2	0.4	1.5	---	5.1	-
5	0	---	---	0	---	---	---	---	---	-



trailer (full, semi-, centre-axle) with air brake system acc. to 71/320/EEC, last amended by 98/12/EC and 2006/96/EC or UN/ECE-R.13.10

distribution: Domett
3357 859
00070RP

please note!

This brake calculation is made under consideration of
-the legal prescriptions mentioned above in the version valid at the time of making the program (V6.09.08.08),
-the functional characteristics of our products, but not of those of other manufacturers, and
-the other vehicle data included in the brake calculation.
Please check whether these data correspond to the actual vehicle data. Our conditions of delivery apply (particularly section 9.0).
WABCO Brake V6.09.08.08 db 08.08.2009

vehicle manufacturer: Domett
trailer model : 4a Full
trailer type : 4-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS E
TRISTOP 3+4: 24/30
215/75 R 17,5

axle 1 + 2 + 3 + 4 : SAF, SNK 300 x 200, TDB 0487 ECE,

		unladen	laden
total mass	P in kg	6000	28000
axle 1	P1 in kg	1550	7000
axle 2	P2 in kg	1550	7000
axle 3	P3 in kg	1450	7000
axle 4	P4 in kg	1450	7000
wheel base	E in mm	6135 - 6135	
centre of gravity height	h in mm	980	2100

		axle 1	axle 2	axle 3	axle 4
no. of combined axles		1	1	1	1
no. of brake chambers per axle line	KDZ	2	2	2	2
The power output corresponds to		FE 747	FE 747BC	0023.1BC	0023.1
brake chamber manufacturer		WABCO	WABCO	WABCO	WABCO
chamber size		24	24	24/30	24/30
lever length	lBh in mm	152	152	127	127
brake factor	[-]	7.95	7.95	7.95	7.95
dyn. rolling radius	rdyn min in mm	373	373	373	373
dyn. rolling radius	rdyn max in mm	373	373	373	373
threshold torque	Co Nm	30.0	30.0	30.0	30.0

calculation:

chamber pressure (rdyn min) pH at z=22,5%bar	2.0	2.0	2.2	2.2	
chamber pressure (rdyn max) pH at z=22,5%bar	2.0	2.0	2.2	2.2	
chamber press. (servo) pcha at pm6,5bar bar	5.2	5.2	5.1	5.1	
piston force ThA at pm6,5bar N	7130	7130	6982	6982	
brake force (rdyn min) T lad. at pm6,5bar N	45607	45607	37209	37209	
brake force (rdyn max) T lad. at pm6,5bar N	45607	45607	37209	37209	
brake force within 1 % rolling friction proportion	%	27.3	27.3	22.7	22.7

braking rate z laden 0.603 for rdyn min
z = sum (TR)/PRmax 0.603 for rdyn max

Trailer may only be operated in combination with trucks/tractors with ISO 7638 supply (5 or 7 polar).

brake diagram :

maximum pressure: 8.5 bar

axle 1:

valve 1: 480 207 0.. 0 WABCO
 EBS relay valve

axle 2:

valve 1: 480 207 0.. 0 WABCO
 EBS relay valve

axle 3:

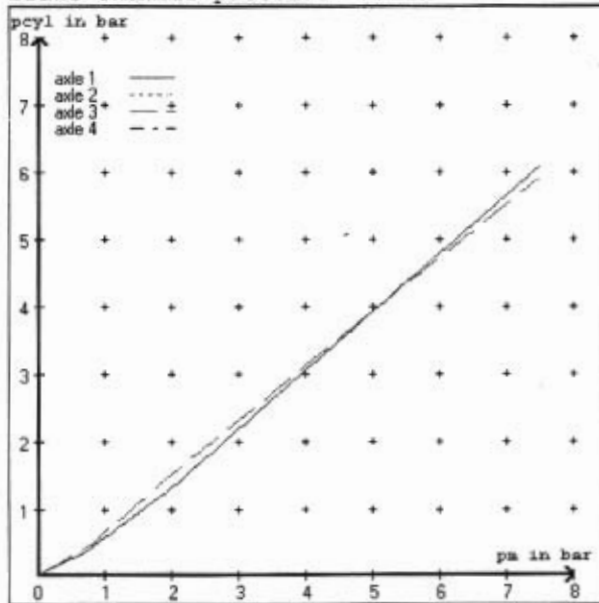
valve 1: 480 102 0.. 0 WABCO
 EBS trailer modulator

axle 4:

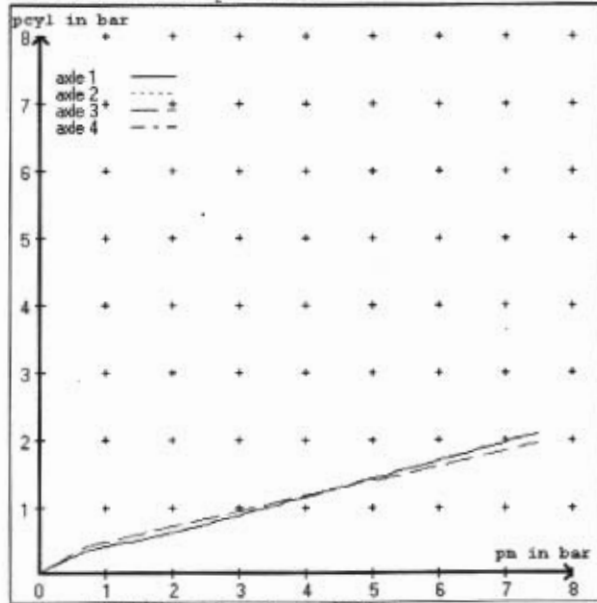
valve 1: 480 102 0.. 0 WABCO
EBS trailer modulator

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	
at pm 3.6 bar =>	pcha in bar :	2.7	2.7	2.8	2.8	
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4	
at pm 1.2 bar =>	pcha in bar :	0.7	0.7	0.8	0.8	

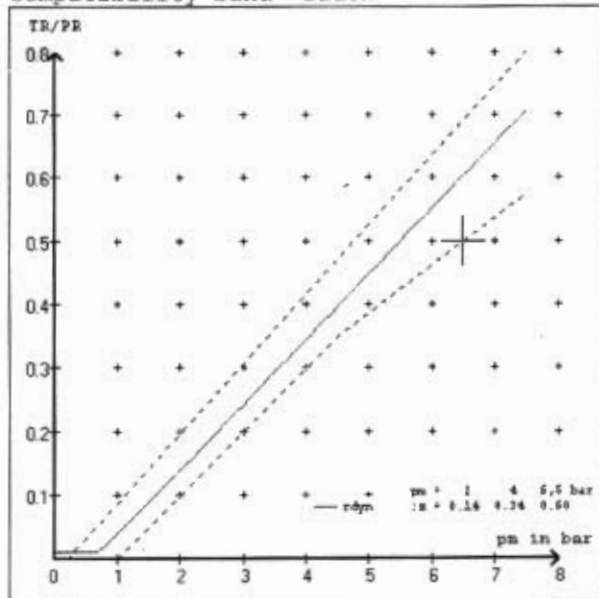
brake chamber pressure laden



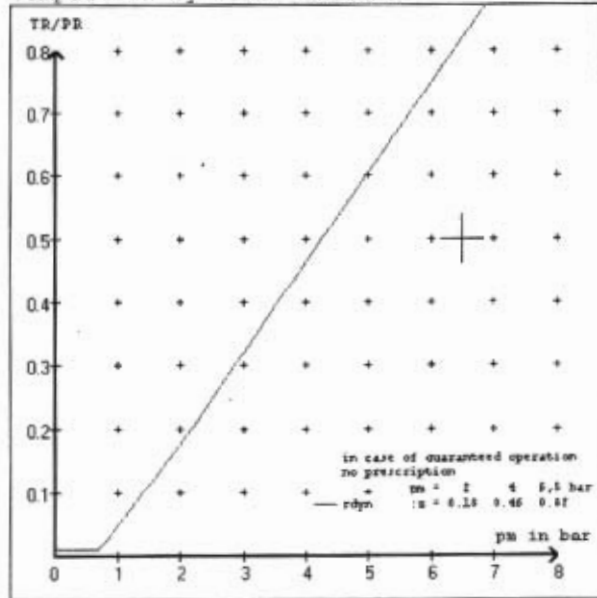
brake chamber pressure unladen



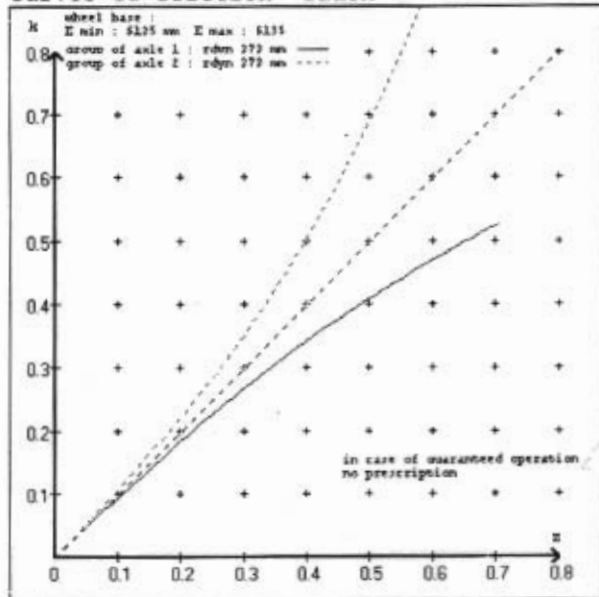
compatibility band laden



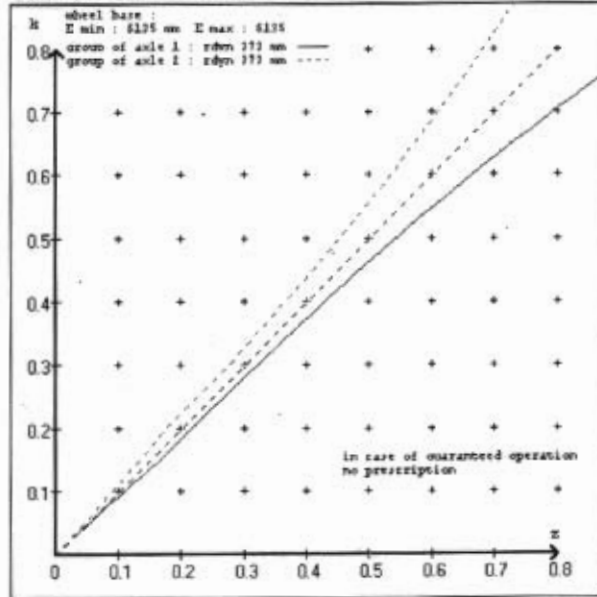
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: Domett
 trailer model : 4a Full
 trailer type : 4-axle-full-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter 24 (WABCO) lever length 152 mm
 axle 2 : 2 x type/diameter 24 (WABCO) lever length 152 mm
 axle 3 : 2 x type/diameter 24/30 (WABCO) lever length 127 mm
 axle 4 : 2 x type/diameter 24/30 (WABCO) lever length 127 mm

brake diagram :

valve :
 480 207 0.. 0 WABCO EBS relay valve
 480 102 0.. 0 WABCO EBS trailer modulator

EBS input data

vehicle manufacturer: Domett
 trailer model : 4a Full
 trailer type : 4-axle-full-trailer
 brake calculation no. : TP 70A

tire circumference main axle : 2350 for rdyn max
 tire circumference auxiliary axle : 2350 for rdyn max

assignment pm / deceleration z: pm 0.7 bar z = 0.000
 (laden condition) 2.0 bar z = 0.134
 6.5 bar z = 0.600

control pressure pm		6,5		control pressure pm		0.7	2.0	6.5
axle	axle load unladen	bellow pr. unladen	brake pr. unladen	axle load laden	bellow pr. laden	brake pr. laden		
1	1550	to be	1.8	7000	to be	0.3	1.3	5.2
2	1550	entered by the vehicle manufact.	1.8	7000	entered by the vehicle manufact.	0.3	1.3	5.2
3	1450		1.7	7000		0.4	1.5	5.1
4	1450		1.7	7000		0.4	1.5	5.1
5	0		0,0	0		0,0	0,0	0,0

The unladen values indicated in the above table are values for the basic parameter set. Higher unladen axle loads and liftaxles are automatically recognized and do not require separate adjustment. The above unladen axle loads must not be fallen below.

axle 1		axle 2		axle 3		axle 4	
axle load	pcyl	axle load	pcyl	axle load	pcyl	axle load	pcyl
1550	1.8	1550	1.8	1450	1.7	1450	1.7
2050	2.1	2050	2.1	1950	2.0	1950	2.0
2550	2.4	2550	2.4	2450	2.3	2450	2.3
3050	2.7	3050	2.7	2950	2.6	2950	2.6
3550	3.0	3550	3.0	3450	2.9	3450	2.9
4050	3.4	4050	3.4	3950	3.2	3950	3.2
4550	3.7	4550	3.7	4450	3.5	4450	3.5
5050	4.0	5050	4.0	4950	3.8	4950	3.8
7000	5.2	7000	5.2	7000	5.1	7000	5.1

data sheet to EC/ECE vehicle type-approval certificate concerning braking equipment: according to 98/12/EC annex IX 2.7.4 / ECE R13 annex 11

axle 1	: reference axle: SAF	SNK 3020-13Z	brake lining: BK 6386
	test report :	TDB 0487 ECE	date : 08.10.2007
axle 2	: reference axle: SAF	SNK 3020-13Z	brake lining: BK 6386
	test report :	TDB 0487 ECE	date : 08.10.2007
axle 3	: reference axle: SAF	SNK 3020-13Z	brake lining: BK 6386
	test report :	TDB 0487 ECE	date : 08.10.2007
axle 4	: reference axle: SAF	SNK 3020-13Z	brake lining: BK 6386
	test report :	TDB 0487 ECE	date : 08.10.2007

calc. verif. of residual (hot) braking force type III
(item 4.2 of appendix I to annex VII)

axle 1	(rdyn 373 mm)	T = 19.4 % Pe
axle 2	(rdyn 373 mm)	T = 19.4 % Pe
axle 3	(rdyn 373 mm)	T = 16.8 % Pe
axle 4	(rdyn 373 mm)	T = 16.8 % Pe

calculated actuator stroke in mm
(item 4.3.1.1 of appendix I to annex VII)

axle 1	(sp = 73 mm)	s = 69 mm
axle 2	(sp = 73 mm)	s = 69 mm
axle 3	(sp = 72 mm)	s = 58 mm
axle 4	(sp = 72 mm)	s = 58 mm

average thrust output in N at pm = 6,5 bar (however max. pcha = 7,0 bar)

axle1	ThA = 7130 N
axle2	ThA = 7130 N
axle3	ThA = 6982 N
axle4	ThA = 6982 N

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix I to annex VII)

axle 1	(rdyn 373 mm)	T = 32799 N
axle 2	(rdyn 373 mm)	T = 32799 N
axle 3	(rdyn 373 mm)	T = 26798 N
axle 4	(rdyn 373 mm)	T = 26798 N

basic test	type III
of subject	(calculated)
trailer (z)	residual
	(hot)braking

braking rate of the vehicle (item 4.3.2 to appendix I to annex VII)	0.60	0.43
--	------	------

required braking rate (items 1.3.3 and 1.6.2 to annex II)	>= 0,4 and
	>= 0,6*z (0.36)

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix I to annex VII)

axle 1	(rdyn 373 mm)	T = 32799 N
axle 2	(rdyn 373 mm)	T = 32799 N
axle 3	(rdyn 373 mm)	T = 26798 N
axle 4	(rdyn 373 mm)	T = 26798 N

basic test	type III
of subject	(calculated)
trailer (z)	residual
	(hot)braking

braking rate of the vehicle (item 4.3.2 to appendix I to annex VII)	0.60	0.43
--	------	------

required braking rate (items 1.3.3 and 1.6.2 to annex II)	>= 0,4 and
	>= 0,6*z (0.36)

spring parking brake

	axle 3	axle 4
no of TRISTOP-actuators per axle line KDZ	2	2
TRISTOP-actuator type	24/30	24/30
lever length	127	127
stat. tyre radius	356	356
at a stroke of	30	30
min. force of spring brake	6520	6520
sp.brake chamber no 925 ...	376 000-0376	000-0
sp.brake chamber no 925....	376 1.. 0376	1.. 0
release pressure	4.8	4.8

calculation:

ratio until road	2.8361	2.8361
$iFb = lBh \cdot \eta \cdot C \cdot rBt / (2 \cdot rBn \cdot rstat)$		
for rstat in mm	356	356
brake force of spring br. Tf in N	35643	35643
$Tf = (TFZ \cdot KDZ - 2 \cdot Co / lBh) \cdot iFb$		
braking rate	0.270	
zf = sum (Tf) / P + 0,01		

Test of the frictional connection required by the parking brake

minimum wheelbase/minimum supporting width min Ef necessary to fulfil the regulations

$$\min Ef = E \cdot (1 - PR/P + zferf \cdot h/E) / (1 - zferf / (fzul \cdot nf/ng))$$

$$\min Ef = 4446 \text{ mm} \quad \text{for } E = 6135 \text{ mm}$$

$$\min Ef = 4446 \text{ mm} \quad \text{for } E = 6135 \text{ mm}$$

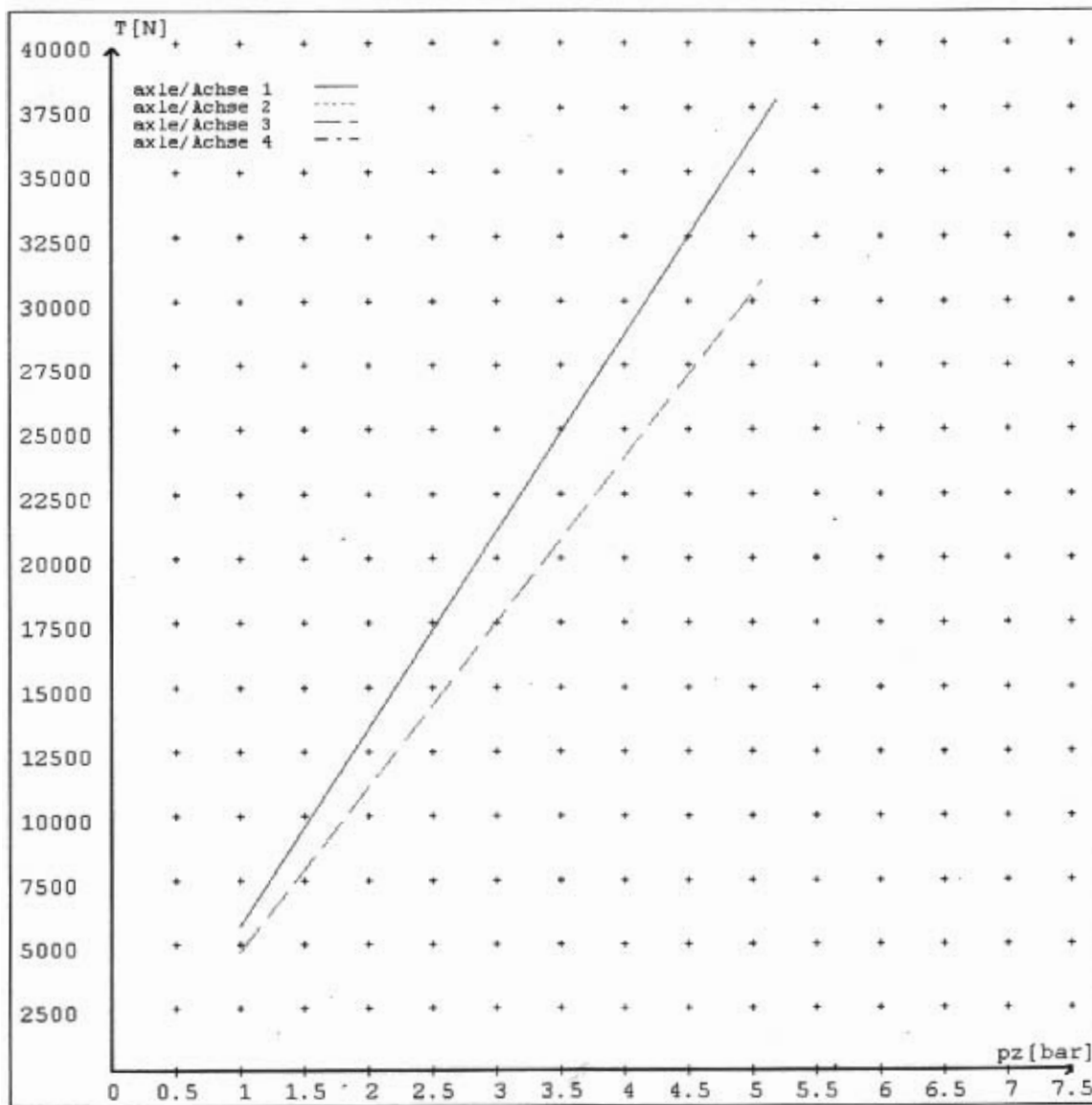
min Ef =	minimum distance between front axle(s) (trailer) or support (semitrailer) and the rear axle(s) (resultant of the bogie)
E =	wheel base
fzul = 0.80	maximum permissible frictional connection required
zferf = 0.18	maximum required braking ratio of the parking brake
h = 2100 mm	height of center of gravity - laden
PR = 14000 kg	maximum bogie mass - laden
P = 28000 kg	maximum total mass - laden
nf = 2	no. of axle(s) with TRISTOP spring brake actuators
ng = 2	no. of bogie axle(s)

reference values

reference values for z = 50%

	pz [bar]	T [N]	T [N]
axle 1	1.0	5639	
	5.2	37817	
axle 2	1.0	5639	
	5.2	37817	
axle 3	1.0		4626
	5.1		30853
axle 4	1.0		4626
	5.1		30853

VIN - no.:

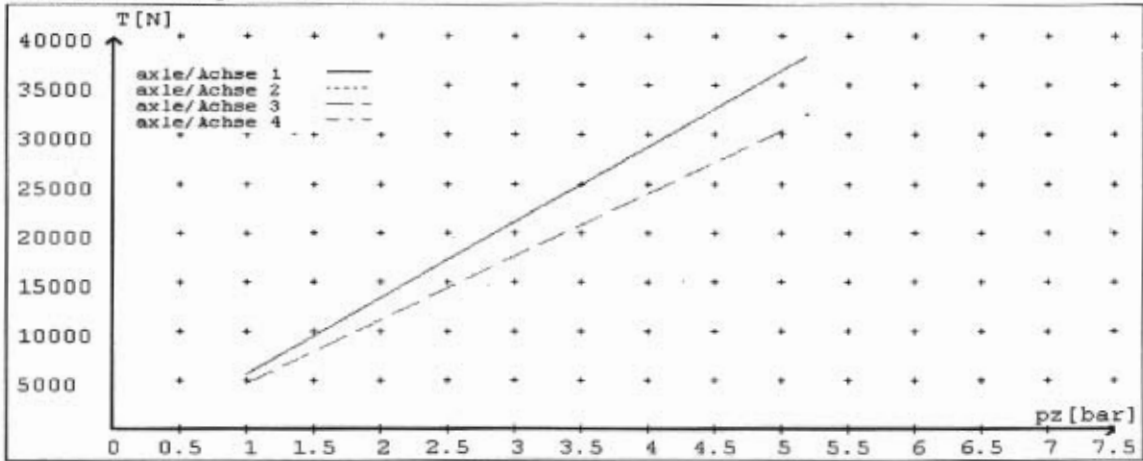


reference values for z = 0.5

Angabe der Referenzwerte für z = 0.5

brake calculation no: TP 70A date 18.01.2010

Bremsberechnung Nr: TP 70A vom 18.01.2010



	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	24/	24/	24/30	24/30	/
Maximum stroke smax = ...mm maximaler Hub smax =mm	75	75	75	75	
Lever length = ...mm Hebellänge =mm	152	152	127	127	