



Heavy Vehicle Specialist Certificate

Heavy Vehicle Specialist Inspector and Inspecting Organisation

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

CHRIS CLARKE

ID

CC

Vehicle Registration*

VIN / Chassis Number

7A9E20015C1023105

Component being certified:

Chassis Modification

Load Anchorage

Log Bolsters

Certification Category

Towing Connection

✓ Brakes

SRT

HOEK

Description of Work

CARRY OUT SET UP OF TRAKER EBS SYSTEM.

Code/Standard Certified to

HOBNZ 3205/2 S4005.

Component Load Rating(s)

N/A.

General Drawing Number(s)

N/A

Supporting Documents

BRAKE DESIGN CERTIFICATE - RP12102.
PREV EXEMPTION REF HOB12/290

*Special Conditions

WARNING LAMP MUST ILLUMINATE WHEN IGNITION IS SWITCHED ON
AND EXTINGUISH IMMEDIATELY OR WHEN VEHICLE EXCEEDS 7 KPH.

Certification Expiry Date (if applicable)

or Hubodometer Reading (whichever comes first)

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

*Delegate's Name (PRINT IN CAPS)

Date

Number

30.10.2012.

419627

COF Vehicle Inspector ID:

COF Vehicle Inspector Signature:

Date

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

WABCO START-UP PROTOCOL

System	Trailer EBS-E	WABCO part number	480 102 080 0
Production date	2012-06-11	Serial number	897000474000H
Serial number (modulator)	000000016086		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2012-10-30 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

WABCO TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
TDB 0749

HERSTELLER MANUFACTURER CONSTRUCTEUR	Domett Trailers		
TYF TYPE TYPE	5A Full Trailer		
FAHRZEUG IDENTNR CHASSIS NUMBER NUMERO DE CHASSIS	7A9E20015C1023105		
BREMSBERECHNUNGS-NR BRAKE CALCULATION NO CALCUL DE FREINAGE NO.	TP300		
POLRADZAHNZAHL c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUE DENTEE c-d e-f	90	90	ABS-System ABS-System Systeme ABS 4S/3M
RSS RSS RSS	Einfachbereifung Single Type Monte simple	Lenkachse Steering axle Essieu avant	
	Zwillingsbereifung Twin Type Monte jumelle	Kippkritisches Fahrzeug Critical Trailer Vehicule critique	
Subsystems		I/O	

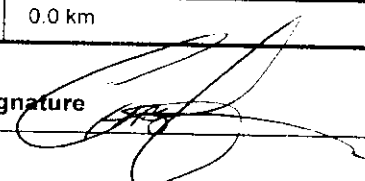
GIO	Pin1	Pin3	Pin4
1	---	---	---
2	---	---	---
3	ALS2	ALS2	---
4	---	---	---
5	DIAG	DIAG	DIAG
6	---	---	---
7	---	---	---



ACHSE AXLE ESSIEU	6.5			0.7			2.0			pZ	TYF TYPE	(mm)	(mm)	(bar)	
	pm (bar)	6.5	pm (bar)	0.7	2.0	---	6.5	1.0	Pz						
	1600	0.6	2.3	7000	4.2	0.3	1.3	---	6.0	-	14	64	69	490	3635
1	1600	0.6	2.3	7000	4.2	0.3	1.3	---	6.0	-	14	64	69	490	3635
2	1600	0.6	2.3	7000	4.2	0.3	1.3	---	6.0	-	14	64	69	490	3635
3	1200	0.4	1.7	6000	3.6	0.3	1.3	---	4.7	-	14 / 24	64	69	482	2809
4	1200	0.4	1.7	6000	3.6	0.3	1.3	---	4.7	-	14 / 24	64	69	482	2809
5	1200	0.4	1.7	6000	3.6	0.3	1.3	---	4.7	-	14 / 24	64	69	482	2809

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

Diagnostic memory ELEX	Not tested	Signal outputs ELEX	Not tested
TailGUARDlight	Not tested	TailGUARD	Not tested

Manufacturer	Domett Trailers	Vehicle ident. no	7A9E20015C1023105
Vehicle type	5A Full Trailer	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tested by	Chris Clarke	Signature 	
Date	2012-10-30 11:09:31 a.m.		



NZ TRANSPORT AGENCY
WŌREKA KŌTARI

NATIONAL OFFICE

20 Victoria Street

Private Bag 6097

Auckland 1142

New Zealand

T 04 474 5400

F 04 474 5100

www.nzta.govt.nz

Exemption: HV812/313

**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 Jackie Hartley, Administrator (Assessments) 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, 5 axle full trailer**
VIN/CHASSIS: **7A9E20015C1023105**

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 Gough Transpecs or an NZ Transport Agency appointed HVEK certifier acting on behalf of, and under instruction from, Gough Transpecs; Gough Transpecs must keep a written record of all approvals
- 5) An HVEK certifier in 4) must be fully trained in end of line procedures for Wabco electronically controlled braking systems
- 6) Gough Transpecs must provide full operator training in the use of the PREV and furnish the operator with full written operating instructions for the PREV.
- 7) The vehicle must not be modified in any way while operating under this exemption.
- 8) This original exemption must be kept by Gough Transpecs.
- 9) A copy of this exemption (printed on a silver WABCO Sticker) must be affixed to the exempted vehicle as close to the WABCO PREV as possible.
- 10) The sticker in 8) must be legible and include all printed areas of this original exemption letter.
- 11) This exemption can be revoked at any time in writing by the NZ Transport Agency.

Signed at Wellington this 10th day of October 2012.

Jackie Hartley
Administrator (Assessments)

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) NZTA Helpdesk 0800 699 000



R S Pratt (TRSP HVEK)

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)

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.13.11

distribution: Domett Trailers
7A9E2G015C1023105 RP121013
003C0RP

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 10.05.21)
-the functional characteristics of our products as well as the data of the brake out of the test approvals of the axle 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).
In any case we commend to do a braking harmonisation!
WABCO Brake V6 10.05.21 dt. 26.05.2010

vehicle manufacturer: Domett Trailers
trailer model : 5A Full Trailer
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS
TRISTOP 3+4+5: T.14/24
265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : SAF, PAN 19-1, TDB 0749, KA 0018.0

		<u>unladen</u>	<u>laden</u>
total mass	P in kg	6800	32000
axle 1	P1 in kg	1600	7000
axle 2	P2 in kg	1600	7000
axle 3	P3 in kg	1200	6000
axle 4	P4 in kg	1200	6000
axle 5	P5 in kg	1200	6000
wheel base	E in mm	6540 - 6540	
centre of gravity height	h in mm	1095	2100

	<u>axle 1</u>	<u>axle 2</u>	<u>axle 3</u>	<u>axle 4</u>	<u>axle 5</u>
no. of combined axles	1	1	1	1	1
no. of brake chambers per axle line Kdz	2	2	2	2	2
The power output corresponds to	BZ 122.1	BZ 122.1	BZ 119.6	BZ 119.6	BZ 119.6
brake chamber manufacturer	Meritor	Meritor	Meritor	Meritor	Meritor
chamber size	14.	14.	T.14/24	T.14/24	T.14/24
lever length lbh in mm	69	69	69	69	69
brake factor [-]	23.03	23.03	23.03	23.03	23.03
dyn. rolling radius rdyn min in mm	421	421	421	421	421
dyn. rolling radius rdyn max in mm	421	421	421	421	421
threshold torque Co Nm	6.0	6.0	6.0	6.0	6.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.3	2.3	2.0	2.0	2.0
chamber pressure(rdyn max)pH at z=22,5%bar	2.3	2.3	2.0	2.0	2.0
chamber press.(servo)pcha at pm6,5bar bar	6.0	6.0	4.7	4.7	4.7
piston force ThA at pm6,5bar N	5789	5788	4485	4485	4485
brake force(rdyn min)T lad. at pm6,5bar N	43775	43775	33832	33832	33832
brake force(rdyn max)T lad. at pm6,5bar N	43775	43775	33832	33832	33832
brake force within 1 % rolling friction proportion	20.0	20.0	20.0	20.0	20.0

braking rate z laden 0.602 for rdyn min
z = sum (TR)/PRmax 0.602 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: 971 002 ... 0 WABCO
 EBS emergency valve

valve 2: 480 207 0.. 0 WABCO
 EBS relay valve

brake cylinder: Meritor 14HSCLD64

axle 2:

valve 1: 971 002 ... 0 WABCO
 EBS emergency valve

valve 2: 480 207 0.. 0 WABCO
 EBS relay valve

brake cylinder: Meritor 14HSCLD64

axle 3:

valve 1: 971 002 ... 0 WABCO
 EBS emergency valve

valve 2: 480 102 ... 0 WABCO
 EBS trailer modulator

brake cylinder: Meritor 1424HTLD64

axle 4:

valve 1: 971 002 ... 0 WABCO
 EBS emergency valve

valve 2: 480 102 ... 0 WABCO
 EBS trailer modulator

brake cylinder: Meritor 1424HTLD64

axle 5:

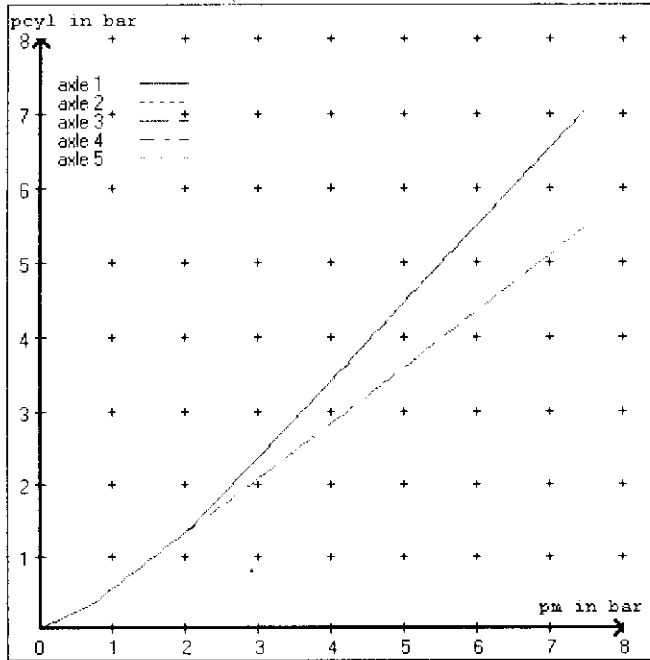
valve 1: 971 002 ... 0 WABCO
 EBS emergency valve

valve 2: 480 102 ... 0 WABCO
 EBS trailer modulator

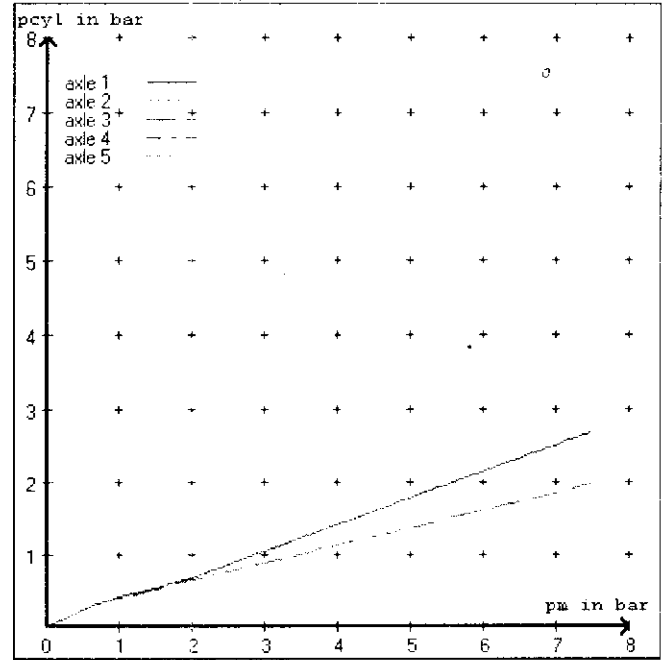
brake cylinder: Meritor 1424HTLD64

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 3.6 bar =>	pcha in bar :	3.0	3.0	2.5	2.5	2.5	
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 1.2 bar =>	pcha in bar :	0.7	0.7	0.7	0.7	0.7	

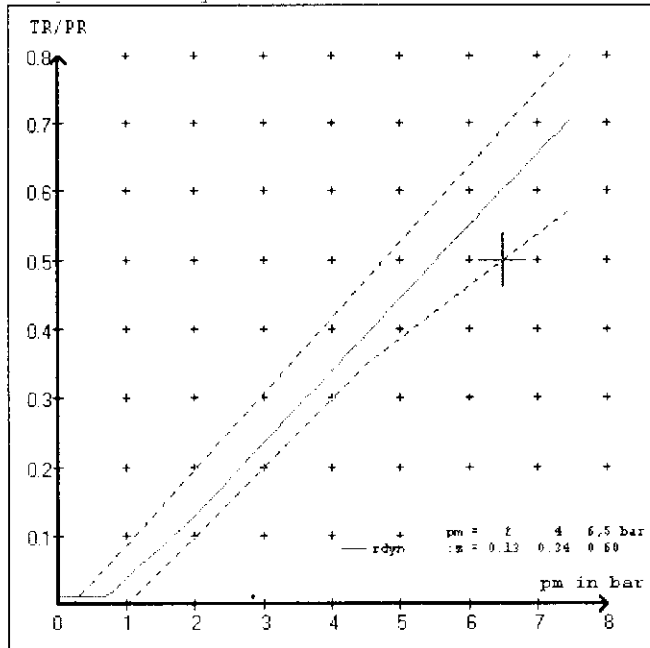
brake chamber pressure laden



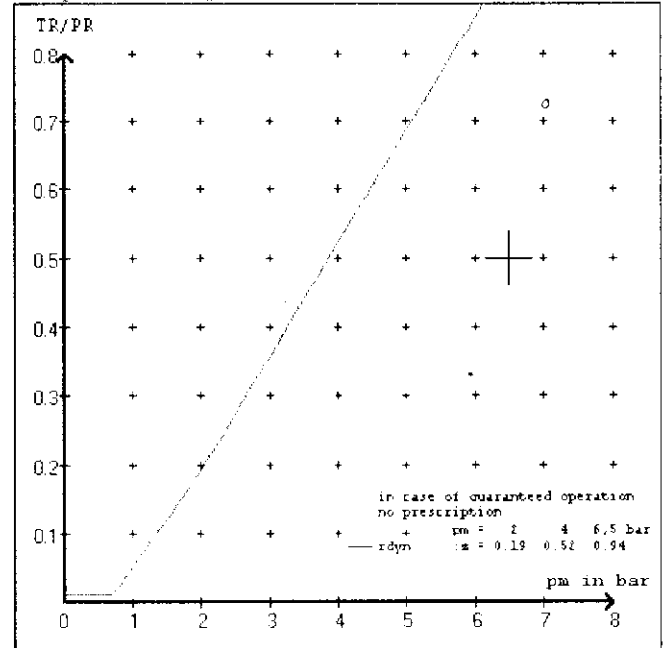
brake chamber pressure unladen



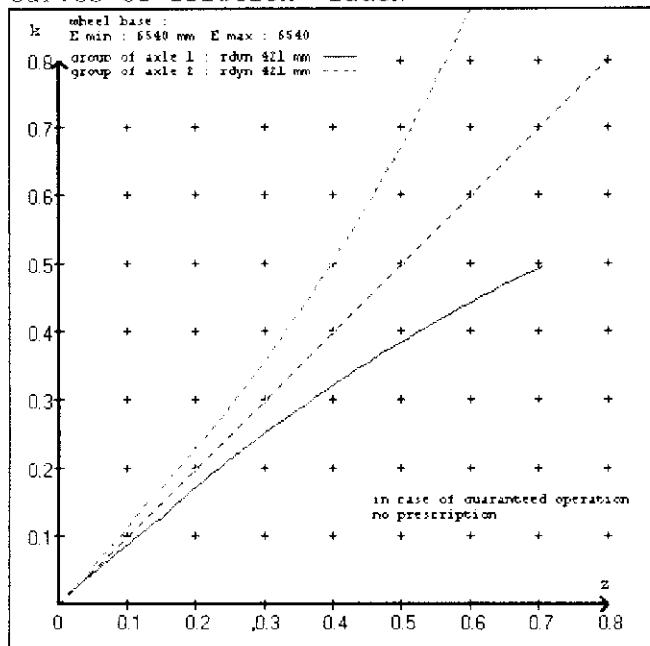
compatibility band laden



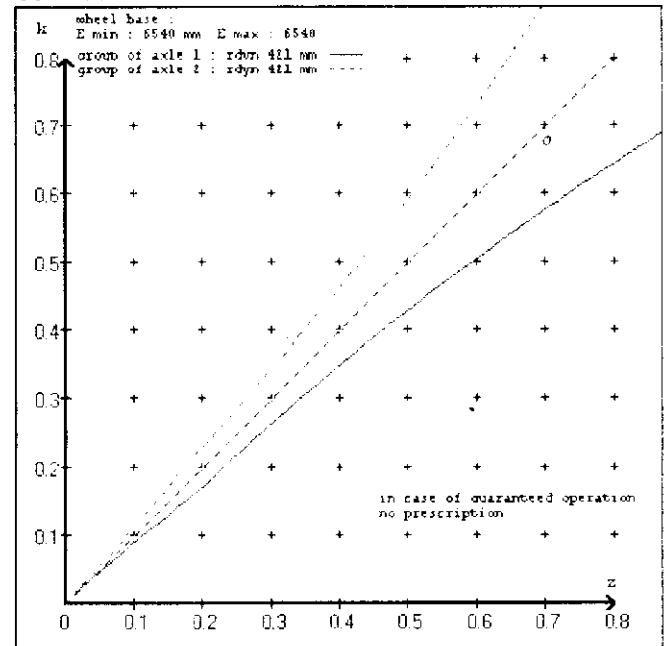
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: Domett Trailers
 trailer model : 5A Full Trailer
 trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter 14. (Meritor) lever length 69 mm
 axle 2 : 2 x type/diameter 14. (Meritor) lever length 69 mm
 axle 3 : 2 x type/diameter T.14/24 (Meritor) lever length 69 mm
 axle 4 : 2 x type/diameter T.14/24 (Meritor) lever length 69 mm
 axle 5 : 2 x type/diameter T.14/24 (Meritor) lever length 69 mm

brake diagram :

valve :
 971 002 ... 0 WABCO EBS emergency valve
 480 207 0.. 0 WABCO EBS relay valve
 480 102 ... 0 WABCO EBS trailer modulator

EBS input data

vehicle manufacturer: Domett Trailers
 trailer model : 5A Full Trailer
 trailer type : 5-axle-full-trailer
 brake calculation no. : TP 300A

tire circumference main axle : 2650 for rdyn max
 tire circumference auxiliary axle : 2650 for rdyn max

assignment pm / deceleration z: pm 0.7 bar z = 0.000
 (laden condition) 2.0 bar z = 0.132
 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	1600	to be	2.3	7000	to be	0.3	1.3	6.0	
2	1600	entered by	2.3	7000	entered by	0.3	1.3	6.0	
3	1200	the vehicle manufact.	1.7	6000	the vehicle manufact.	0.3	1.3	4.7	
4	1200		1.7	6000		0.3	1.3	4.7	
5	1200		1.7	6000		0.3	1.3	4.7	

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 5	
axle load	pcyl	axle load	pcyl	axle load	pcyl	axle load	pcyl	axle load	pcyl
1600	2.3	1600	2.3	1200	1.7	1200	1.7	1200	1.7
2100	2.6	2100	2.6	1700	2.0	1700	2.0	1700	2.0
2600	3.0	2600	3.0	2200	2.3	2200	2.3	2200	2.3
3100	3.3	3100	3.3	2700	2.6	2700	2.6	2700	2.6
3600	3.7	3600	3.7	3200	3.0	3200	3.0	3200	3.0
4100	4.0	4100	4.0	3700	3.3	3700	3.3	3700	3.3
4600	4.4	4600	4.4	4200	3.6	4200	3.6	4200	3.6
5100	4.7	5100	4.7	4700	3.9	4700	3.9	4700	3.9
7000	6.0	7000	6.0	6000	4.7	6000	4.7	6000	4.7

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	SBW 1937-10 Z brake lining: Jurid 539
	test report :	TDB 0749 date : 15.05.2002
axle 2	: reference axle: SAF	SBW 1937-10 Z brake lining: Jurid 539
	test report :	TDB 0749 date : 15.05.2002
axle 3	: reference axle: SAF	SBW 1937-10 Z brake lining: Jurid 539
	test report :	TDB 0749 date : 15.05.2002
axle 4	: reference axle: SAF	SBW 1937-10 Z brake lining: Jurid 539
	test report :	TDB 0749 date : 15.05.2002
axle 5	: reference axle: SAF	SBW 1937-10 Z brake lining: Jurid 539
	test report :	TDB 0749 date : 15.05.2002

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

axle 1	(rdyn 421 mm)	T = 17.9 % Fe
axle 2	(rdyn 421 mm)	T = 17.9 % Fe
axle 3	(rdyn 421 mm)	T = 14.8 % Fe
axle 4	(rdyn 421 mm)	T = 14.8 % Fe
axle 5	(rdyn 421 mm)	T = 14.8 % Fe

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

axle 1	(sp = 57 mm)	s = 42 mm
axle 2	(sp = 57 mm)	s = 42 mm
axle 3	(sp = 56 mm)	s = 42 mm
axle 4	(sp = 56 mm)	s = 42 mm
axle 5	(sp = 56 mm)	s = 42 mm

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

axle1	ThA = 5788 N
axle2	ThA = 5788 N
axle3	ThA = 4485 N
axle4	ThA = 4485 N
axle5	ThA = 4485 N

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

axle 1	(rdyn 421 mm)	T = 29337 N
axle 2	(rdyn 421 mm)	T = 29337 N
axle 3	(rdyn 421 mm)	T = 22694 N
axle 4	(rdyn 421 mm)	T = 22694 N
axle 5	(rdyn 421 mm)	T = 22694 N

	basic test	type III
	of subject	(calculated)
	trailer (z)	residual
braking rate of the vehicle		(hot)braking
(item 4.3.2 to appendix I to annex VII)	0.60	0.40

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

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

axle 1	(rdyn 421 mm)	T = 29337 N
axle 2	(rdyn 421 mm)	T = 29337 N
axle 3	(rdyn 421 mm)	T = 22694 N
axle 4	(rdyn 421 mm)	T = 22694 N
axle 5	(rdyn 421 mm)	T = 22694 N

	basic test	type III
	of subject	(calculated)
	trailer (z)	residual
braking rate of the vehicle		(hot)braking
(item 4.3.2 to appendix I to annex VII)	0.60	0.40

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

spring parking brake

	<u>axle 3</u>	<u>axle 4</u>	<u>axle 5</u>
no of TRISTOP-actuators per axle line KDZ	2	2	2
TRISTOP-actuator type	T.14/24	T.14/24	T.14/24
lever length lBh in mm	69	69	69
stat. tyre radius rstat max in mm	401	401	401
at a stroke of s in mm	30	30	30
min. force of spring brake TFZ in N	7605	7605	7605
sp.brake chamber no Meritor.....	4	4	4
release pressure pLs in bar	4.8	4.8	4.8

calculation:

ratio until road	3.9674	3.9674	3.9674
$iFb = lBh * \eta * C * rBt / (rBn * rstat)$ for rstat in mm	401	401	401
brake force of spring br. Tf in N	59654	59654	59654
$Tf = (TFZ * KDZ - 2 * Co / lBh) * iFb$			
braking rate zf laden	0.580		
$zf = \sum (Tf) / P + 0,01$			

Test of the frictional connection required by the parking brake

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

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

min Ef = 4180 mm for E = 6540 mm

min Ef = 4180 mm for E = 6540 mm

- min Ef = minimum distance between front axle(s) (trailer) or support (semitraile) 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 = 18000 kg maximum bogie mass - laden
- P = 32000 kg maximum total mass - laden
- nf = 3 no. of axle(s) with TRISTOP spring brake actuators
- ng = 3 no. of bogie axle(s)

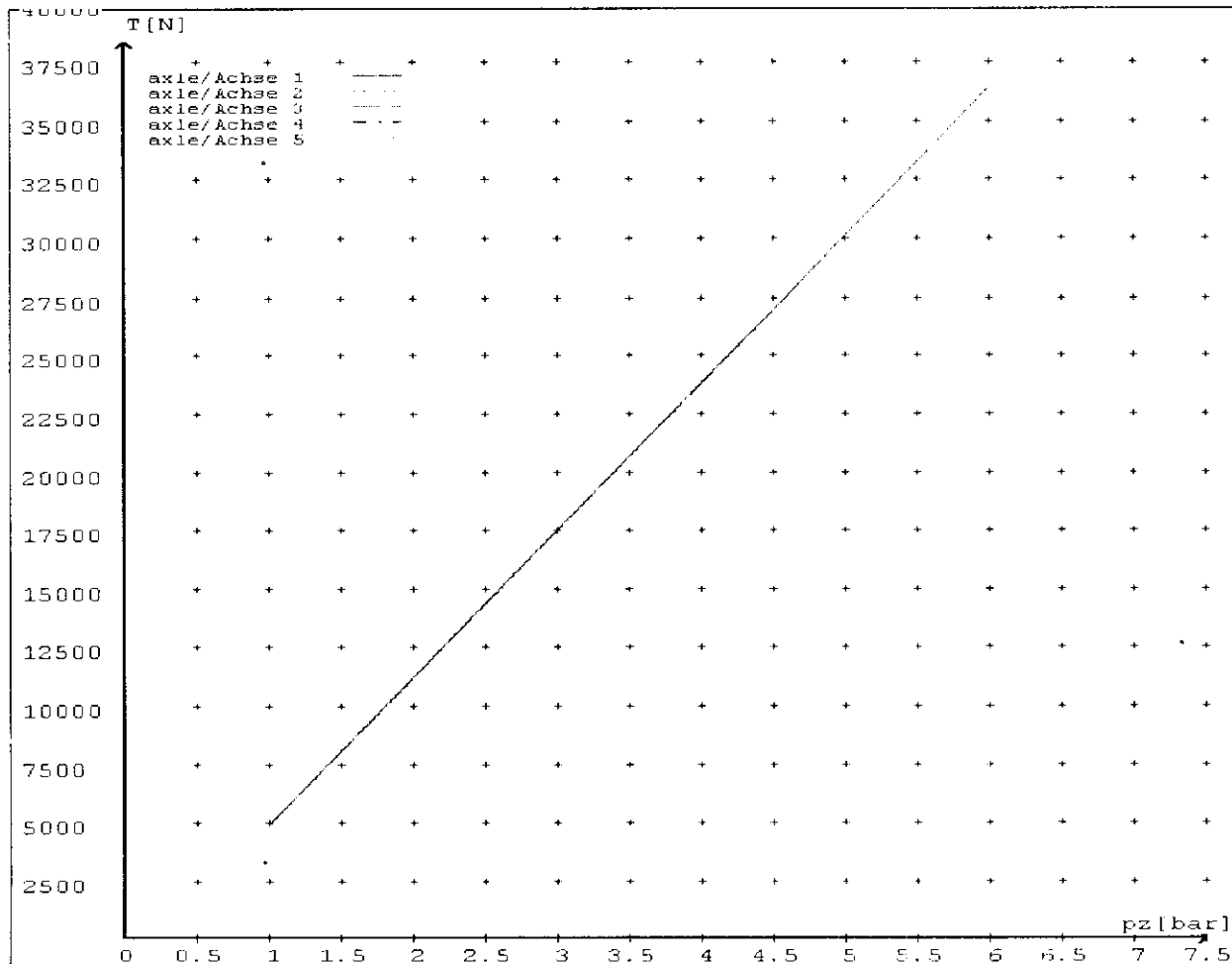
reference values

reference values for z = 50% for max rdyn: 421 mm

	pz [bar]	T [N]	T [N]
axle 1	1.0	4909	
	6.0	36358	
axle 2	1.0	4909	
	6.0	36358	
axle 3	1.0		4827
	4.7		28100
axle 4	1.0		4827
	4.7		28100
axle 5	1.0		4827
	4.7		28100

VIN - no.:

	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	14./	14./	T.14/24	T.14/24	T.14/24
Maximum stroke smax = ...mm maximaler Hub smax =mm	64	64	64	64	64
Lever length =mm Hebellänge =mm	69.08	69.08	69.08	69.08	69.08



reference values for z = 0.5

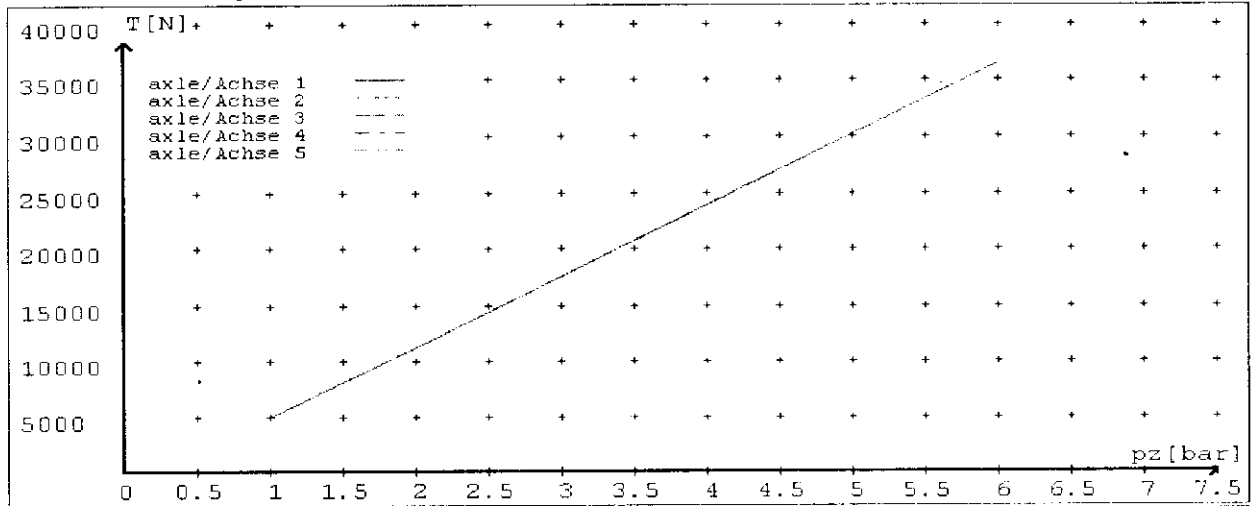
for max rdyn: 421 mm

Angabe der Referenzwerte für z = 0.5

für max rdyn: 421 mm

brake calculation no: TP 300A date 13.10.2012

Bremsberechnung Nr: TP 300A vom 13.10.2012



	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Servo / Fest)	14./	14./	T.14/24	T.14/24	T.14/24
Maximum stroke max. - ...mm maximaler Hub max. - ...mm	64	64	64	64	64
Lever length - ...mm Hebellänge - ...mm	69.08	69.08	69.08	69.08	69.08



**HEAVY VEHICLE BRAKE RULE
WORKSHEET**
(PROCEDURE DOCUMENTATION SHEET – PDS)
&
CONFIRMATION OF COMPLIANCE

CERTIFICATE No.

CUSTOMER NAME

CUSTOMER ORDER No.

DATE RECEIVED

VEHICLE TYPE

REG No.

CHASSIS No.

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

BRAKE VALVES:

Primary Relay

Make: WABCO Type: 480/102/080/0

Secondary Relay

Make: WABCO Type: 480/207/020/2

Spring Brake Relay

Make: Wabco Type: 971/002/103/4

Park Brake Release Valve

Make: Wabco Type: 971/002/103/4

Locked Ratio

Make: N/A Type: _____ Setting: _____

Load Sense Valve

Front: Make: Yes EBS Control Type: _____

Settings: Laden: _____ Unladen: _____

Load Sense Valve

Rear: Make: Yes EBS Control Type: _____

Setting: Laden: _____ Unladen: _____

Other Valves

Make: WABCO _____ Type: Line Filters _____ Setting: X2 _____

Make: _____ Type: _____ Setting:- _____

Make: _____ Type: _____ Setting: _____

Make: _____ Type: _____ Setting:- _____

Comments:

BRAKE CHAMBERS:

Front: Make TSE Type: 14 STROKE: 64 mm

Rear: Make TSE Type: 14/16 STROKE: 64 mm

SLACK ADJUSTER:

Front Length (mm) _____ Disc _____ Rear Length (mm) _____ Disc _____

BRAKE CALIPERS: Type Wabco Pan 19+ _____

FRICITION MATERIAL:

(Front) Lining Brand _____ OEM _____ Aftermarket
Grade _____
(Rear) Lining Brand _____ Jurid 539 _____ Grade _____

OTHER:

TYRES 265/70R 19.5

NOTES:

PACKING SLIP NO.

PROCESS TIME:

Prev Exemption HVB12/291

Confirmation of compliance

I confirm that the vehicle identified on page 1 and 2 of this Confirmation of Compliance complies with all rel



Date: 18/10/2012 Signed: _____

Certifier's identification

Name & ID: RON PRATT (TRSP)

Phone (bus): 09 9807300 Fax (bus): 09 9807306

Postal address: TRANSPORT SPECIALTIES LTD
PO BOX 98-971,
MANUKAU CITY,
MANUKAU 2241

Position: TRSP (HVEK)

Confirmation of continued compliance of modification

I confirm the brake system of the vehicle identified on page 1 of this Statement of Compliance as modified by

Date: _____ Signed: _____

Certifier's identification: _____

Name: _____

Phone (bus): _____ Fax (bus): _____

Postal address: _____

Position: _____

Comments:

--