NZ TRANSPORT AGENCY
WAKA KOTAHI

Heavy Vehicle Specialist Certificate

Heavy Vehicle Specialist Inspector and Inspecting Organisation

Heavy Vehicle Specialist Inspector's Name *(PRINT IN CAPS)*: CHRIS CLARKE

ID: CJC

Vehicle Registration*:

VIN / Chassis Number: 7A9E20016D1023129

Component being certified: Chassis Modification | Load Anchorage | Log Bolsters | Towing Connection | ✓ Brakes | SRT

Certification Category: HVEK.

Description of Work

CARRY OUT SET UP OF TRAILER EBS SYSTEM

ROLL STABILITY FUNCTION (RSS) ACTIVATED + TESTED AS PER START UP PROTOCOL.

Code/Standard Certified to: HNBNZ 32015/2 SCHED 5.

Component Load Rating(s): 32500 KG.

General Drawing Number(s): N/A.

Supporting Documents: BRAKE DESIGN CERTIFICATE. PREV EXEMPTION

*Special Conditions

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

Certification Expiry Date *(if applicable)*: N/A

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: 13.02.2013

Number: 428578

COF Vehicle Inspector ID: | COF Vehicle Inspector Signature: | Date

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

HVBR WORKSHEET

(PROCEDURE & COMPLIANCE DOCUMENTATION SHEET)

CERTIFICATE No. JH130202

CUSTOMER NAME: DOMETT T&T

CUSTOMER ORDER No.: 3967 DATE RECEIVED: 05.12.12

VEHICLE TYPE: 5 AXLE FULL TRAILER

REG No.: CHASSIS No.: 7A9E20016D1023129

BRIEF SPECIFICATION AS CERTIFIED TO HVBR

BRAKE CHAMBERS:
Type: 24 (TSE): Max stroke = 67 mm Lever length = 127 mm
Type: 2430 (TSE) : Max stroke = 64 mm Lever length = 127 mm

BRAKE VALVES: Ratio Valve Setting: EBS CONTROL
Test Points: 3 4 5 7

FRICTION LINING: OEM Aftermarket
(All) Lining Brand ROR 685 AF

EBS CONTROL: IF SPECIAL CONDITIONS APPLY – SEE INSTRUCTION ON LT400

VALVES: AS PER BRAKE CALCULATION# TP50767

TYRE SIZE: 265 70 R 19.5

NOTES
PACKING SLIP NO. SO1523633 PROCESS TIME: 1

COMPLETION DATE : 14th Feb 2013 SIGNATURE (pp.):

Statement of Compliance with the New Zealand Heavy Brake Rule

Documentation required supporting Statements of Compliance with the New Zealand Heavy Brake Rule, to be made available to the Statutory Authority on request, must include all calculations and test reports.

Confirmation of compliance

I confirm that the vehicle identified on page 1 of this Statement of Compliance complies with all relevant requirements of the current New Zealand Heavy Vehicle Brake Rule 32015/2, Schedule 5.

Date: 14th Feb 2013 Signed (pp.):

Certifier's identification

Name: J E Hirst

Phone (bus): (09) 980 7300 Fax (bus): (09) 980 7306

Postal address: Transport Specialties, Cnr Kerrs & Ash Roads

Wiri, Auckland, PO Box 98 971 Manukau City 2241

Position: JEH

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 myself, continues to comply with all the relevant requirements of the current New Zealand Heavy Vehicle Brake Rule 32015/2, Schedule 5.

Date: _____ Signed: _____

Certifier's identification: JEH

Name:

Phone (bus): (09) 980 7300 Fax (bus): (09) 980 7306

Postal address: Transport Specialties Ltd

Cnr Kerrs & Ash Roads, Wiri, Auckland

PO Box 98 971, Manukau City 2241

GOUGH Transpecs

NOTICE TO VEHICLE OPERATOR

THIS VEHICLE HAS A BRAKE SYSTEM WHICH HAS BEEN DESIGNED AND FITTED IN ACCORDANCE WITH THE LAND TRANSPORT HEAVY VEHICLE BRAKE RULE 32015/2.

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

PLEASE REFER TO THE CERTIFIER FOR FURTHER INFORMATION.

EXCERPT FROM LAND TRANSPORT RULE; HEAVY-VEHICLE BRAKES RULE 32015/2. SECTION 10,

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 this rule;**

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 person or organisation appointed to carry out specialist inspection and certification of heavy vehicle brakes.**

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 New Zealand Transport Authority if dissatisfied with a Compliance issue. (Refer NZTA Deed Of Appointment Para 47.4) NZTA Helpdesk 0800 699 000

(p.p.).....

(J.Hirst (JEH) HVEK)

GOUGH Transpecs

NOTICE TO VEHICLE OPERATOR

This trailer is equipped with an **E**lectronic **B**rake **S**ystem.

To comply with the New Zealand Heavy Vehicle Brake Rule 32015/2, 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.

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

(p.p.)_____
J E Hirst
(JEH HVEK)
(09 980 7300)

GOUGH | Transpecs

NOTICE TO VEHICLE OPERATOR

WABCO Park Release Emergency Valve (PREV)

This trailer is equipped with a WABCO PREV
Part # 971 002 900 0

Application of the park brake via the cab control valve will actuate and apply all service brakes on the trailer. In the event of a leak in the service brake system the Spring Brakes will automatically override and hold the vehicle in compliance to Land Transport Rule: Heavy-vehicle Brakes Rule 32015/2.

When the vehicle is presented for COF the trailer park brake system is tested by pulling the red actuation knob on the PREV, situated mid way down the chassis rail. The cab control in the prime mover does not have to be applied for this test procedure.

If you are unsure of any aspect relating to this instruction please contact either the vehicle manufacturer or myself.

(p.p.)_____

J E Hirst
(JEH HVEK)
(09 980 7300)

NZ TRANSPORT AGENCY
WAKA KOTAHI

NATIONAL OFFICE
50 Victoria Street
Private Bag 6995
Wellington 6141
New Zealand
T 64 4 894 5400
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www.nzta.govt.nz

Exemption: HVB13/018

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 T & T Ltd, 5 axle full-trailer**
VIN/CHASSIS: **7A9E20016D1023129**

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 9) 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 28th day of January 2013.

Jackie Hartley
Administrator (Assessments)

trailer (full, semi-, centre-axle) with air brake system acc. to UN/ECE-R.13.11

distribution: DOMETT
7A9E20016D1023129
JH130202 (SODC)
HVB13/018

please note!

This brake calculation is made under consideration of
-the legal precriptions mentioned above in the version valid at the time of making the program (V6.12.08.27).
-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!
WABCOBrake V6.12.08.27 db 30.08.2012

vehicle manufacturer: DOMETT
trailer model : 5AFT C/SIDE
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS E
TRISTOP 3+4+5: 24/30
265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : Assali Stefen, B (350x200), TDB 0855 ECE,

		unladen	laden
total mass	P in kg	7400	32500
axle 1	P1 in kg	1600	7250
axle 2	P2 in kg	1600	7250
axle 3	P3 in kg	1400	6000
axle 4	P4 in kg	1400	6000
axle 5	P5 in kg	1400	6000
wheel base	E in mm	7285 - 7320	
centre of gravity height	h in mm	1090	2050

		axle 1	axle 2	axle 3	axle 4	axle 5
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		FE 747	FE 747BC	0051.0BC	0051.0BC	0051.0
brake chamber manufacturer		TSE	TSE	TSE	TSE	TSE
chamber size		24	24	24/30	24/30	24/30
lever length	lBh in mm	127	127	127	127	127
brake factor	[-]	9.10	9.10	9.10	9.10	9.10
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	25.0	25.0	25.0	25.0	25.0
calculation:						
chamber pressure(rdyn min)	pH at z=22,5%bar	2.2	2.2	1.9	1.9	1.9
chamber pressure(rdyn max)	pH at z=22,5%bar	2.2	2.2	1.9	1.9	1.9
chamber press.(servo)	pcha at pm6,5bar bar	5.9	5.9	4.5	4.5	4.5
piston force	ThA at pm6,5bar N	8128	8128	6355	6355	6355
brake force(rdyn min)	T lad. at pm6,5bar N	44258	44258	34398	34398	34398
brake force(rdyn max)	T lad. at pm6,5bar N	44258	44258	34398	34398	34398
brake force within 1 % rolling friction proportion	%	19.6	19.6	20.3	20.3	20.3

braking rate z laden	0.601	for rdyn min
z = sum (TR)/PRmax	0.601	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 or 480 207 2.. 0
  EBS relay valve
- brake cylinder: TSE 24S

axle 2:
- valve 1: 971 002 ... 0 WABCO
  EBS emergency valve
- valve 2: 480 207 0.. 0 WABCO or 480 207 2.. 0
  EBS relay valve
- brake cylinder: TSE 24S

axle 3:
- valve 1: 971 002 ... 0 WABCO
  EBS emergency valve
- valve 2: 480 102 ... 0 WABCO
  EBS trailer modulator
- brake cylinder: TSE 2430GC

axle 4:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

brake cylinder: TSE 2430GC

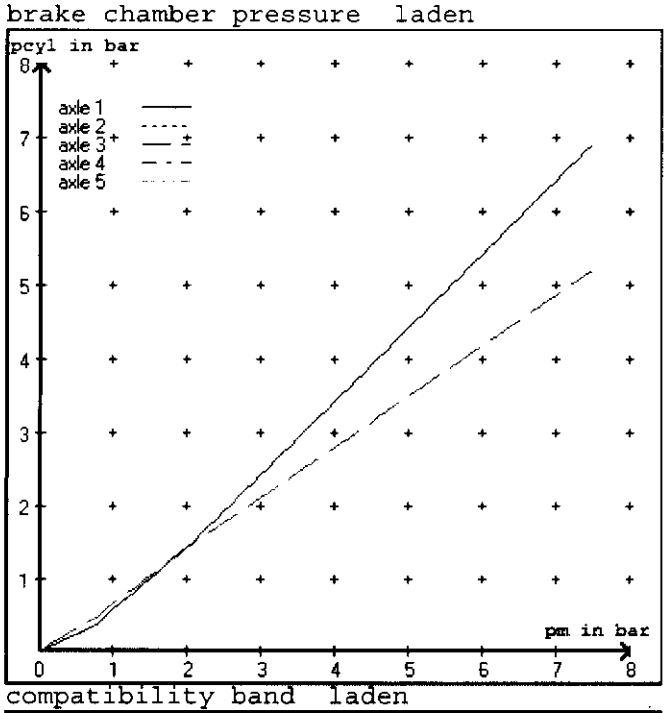
axle 5:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

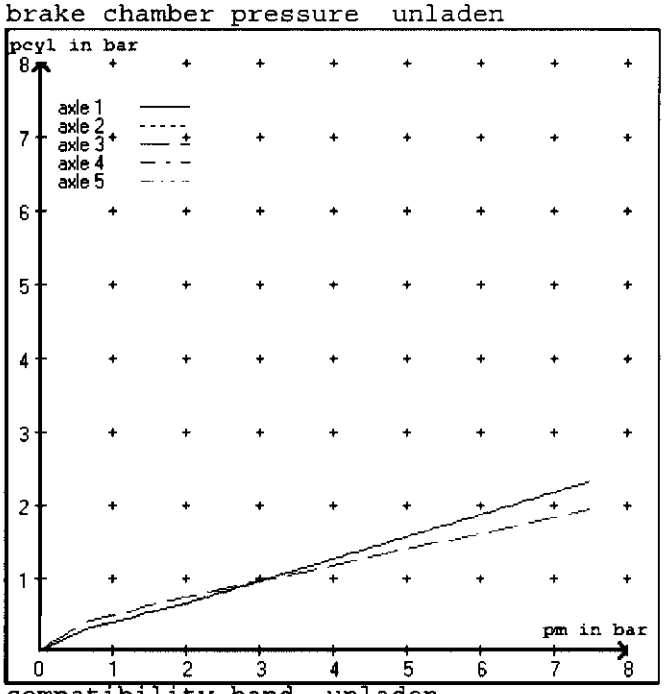
brake cylinder: TSE 2430GC

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	axle5
at pm 3.5 bar =>	pcha in bar :	2.9	2.9	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	0.8	0.8	0.8

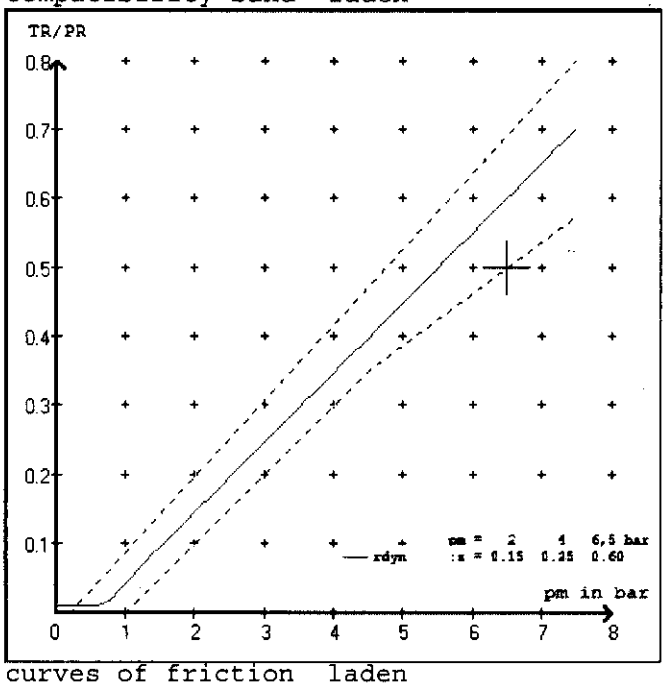
brake chamber pressure laden



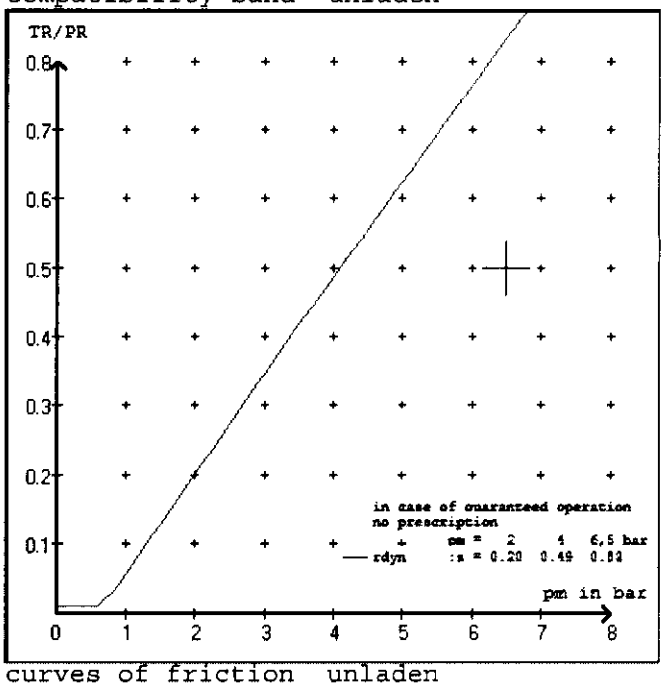
brake chamber pressure unladen



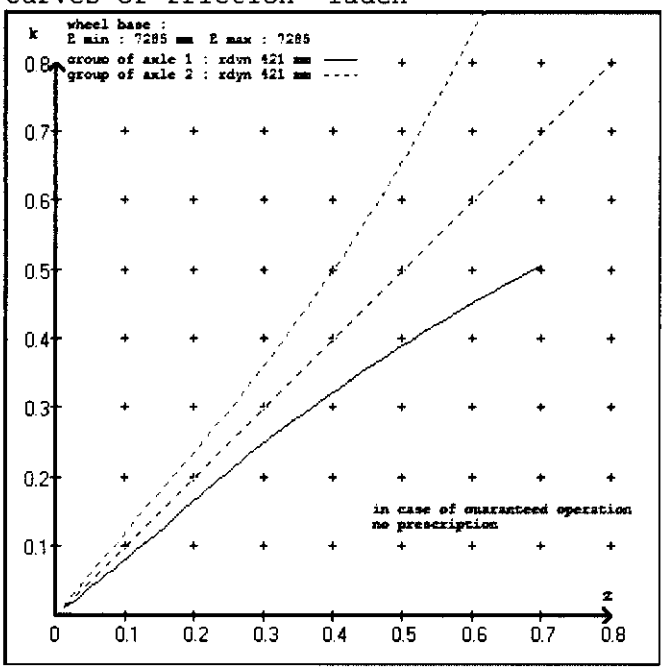
compatibility band laden



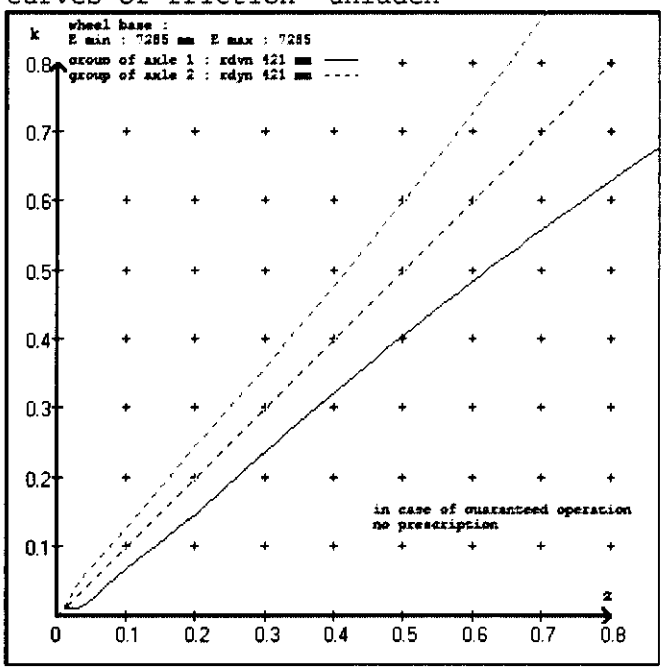
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT
trailer model : 5AFT C/SIDE
trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1 :	2 x type/diameter	24	(TSE)	lever length 127 mm
axle 2 :	2 x type/diameter	24	(TSE)	lever length 127 mm
axle 3 :	2 x type/diameter	24/30	(TSE)	lever length 127 mm
axle 4 :	2 x type/diameter	24/30	(TSE)	lever length 127 mm
axle 5 :	2 x type/diameter	24/30	(TSE)	lever length 127 mm

brake diagram :

valve :
971 002 ... 0 WABCO EBS emergency valve
480 207 0.. 0 WABCO EBS relay valve or 480 207 2.. 0
480 102 ... 0 WABCO EBS trailer modulator

EBS input data
==========
vehicle manufacturer: DOMETT
trailer model : 5AFT C/SIDE
trailer type : 5-axle-full-trailer
brake calculation no. : TP 50767A

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 = 0.010
(laden condition) 2.0 bar z = 0.142
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	2.0	7250	to be	0.3	1.4	5.9
2	1600	entered by	2.0	7250	entered by	0.3	1.4	5.9
3	1400	the vehicle	1.7	6000	the vehicle	0.4	1.4	4.5
4	1400	manufact.	1.7	6000	manufact.	0.4	1.4	4.5
5	1400		1.7	6000		0.4	1.4	4.5

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	2.0	1600	2.0	1400	1.7	1400	1.7	1400	1.7
2100	2.3	2100	2.3	1900	2.0	1900	2.0	1900	2.0
2600	2.7	2600	2.7	2400	2.3	2400	2.3	2400	2.3
3100	3.0	3100	3.0	2900	2.6	2900	2.6	2900	2.6
3600	3.4	3600	3.4	3400	2.9	3400	2.9	3400	2.9
4100	3.7	4100	3.7	3900	3.2	3900	3.2	3900	3.2
4600	4.1	4600	4.1	4400	3.5	4400	3.5	4400	3.5
5100	4.4	5100	4.4	4900	3.8	4900	3.8	4900	3.8
7250	5.9	7250	5.9	6000	4.5	6000	4.5	6000	4.5

data sheet to ECE vehicle type-approval certificate concerning braking equipment: according to ECE R13 annex 11

axle 1 : reference axle: Assali StefTM / LM / LCe brake lining: ROR 685 AF
test report : TDB 0855 ECE date : 20110721
axle 2 : reference axle: Assali StefTM / LM / LCe brake lining: ROR 685 AF
test report : TDB 0855 ECE date : 20110721
axle 3 : reference axle: Assali StefTM / LM / LCe brake lining: ROR 685 AF
test report : TDB 0855 ECE date : 20110721
axle 4 : reference axle: Assali StefTM / LM / LCe brake lining: ROR 685 AF
test report : TDB 0855 ECE date : 20110721
axle 5 : reference axle: Assali StefTM / LM / LCe brake lining: ROR 685 AF
test report : TDB 0855 ECE date : 20110721

calc. verif. of residual (hot) braking force type III
(item 4.2.1 of appendix 2 to annex 11)

axle 1	(rdyn 421 mm)	T = 20.4 % Fe
axle 2	(rdyn 421 mm)	T = 20.4 % Fe
axle 3	(rdyn 421 mm)	T = 17.4 % Fe
axle 4	(rdyn 421 mm)	T = 17.4 % Fe
axle 5	(rdyn 421 mm)	T = 17.4 % Fe

calculated actuator stroke in mm
(item 4.3.1.1 of appendix 2 to annex 11)

axle 1	(sp = 73 mm)	s = 54 mm
axle 2	(sp = 73 mm)	s = 54 mm
axle 3	(sp = 63 mm)	s = 54 mm
axle 4	(sp = 63 mm)	s = 54 mm
axle 5	(sp = 63 mm)	s = 54 mm

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

axle1	ThA = 8128 N
axle2	ThA = 8128 N
axle3	ThA = 6355 N
axle4	ThA = 6355 N
axle5	ThA = 6355 N

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix 2 to annex 11)

axle 1	(rdyn 421 mm)	T = 36635 N
axle 2	(rdyn 421 mm)	T = 36635 N
axle 3	(rdyn 421 mm)	T = 28481 N
axle 4	(rdyn 421 mm)	T = 28481 N
axle 5	(rdyn 421 mm)	T = 28481 N

	basic test of subject trailer (E)	type III (calculated) residual (hot)braking
braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11)	0.60	0.50
required braking rate (items 1.5.3 and 1.7.2 to annex 11)		>= 0,4 and >= 0,6*E (0.36)

axle 1	(rdyn 421 mm)	T = 36635 N
axle 2	(rdyn 421 mm)	T = 36635 N
axle 3	(rdyn 421 mm)	T = 28481 N
axle 4	(rdyn 421 mm)	T = 28481 N
axle 5	(rdyn 421 mm)	T = 28481 N

	basic test of subject trailer (E)	type III (calculated) residual (hot)braking
braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11)	0.60	0.50
required braking rate (items 1.5.3 and 1.7.2 to annex 11)		>= 0,4 and >= 0,6*E (0.36)

spring parking brake

		axle 3	axle 4	axle 5
no of TRISTOP-actuators per axle line	KDZ	2	2	2
TRISTOP-actuator type		24/30	24/30	24/30
lever length	lBh in mm	127	127	127
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	6360	6360	6360
sp.brake chamber no 925		376 005 0376	005 0376	005 0
sp.brake chamber no 925		376 2.. 0376	2.. 0376	2.. 0
release pressure	pLs in bar	4.9	4.9	4.9

calculation:

ratio until road		2.8820	2.8820	2.8820
iFb = lBh*Eta*C*rBt/(2*rBn*rstat)				
	for rstat in mm	401	401	401
brake force of spring br. Tf	in N	35525	35525	35525
Tf = (TFZ*KDZ-2*Co/lBh)*iFb				

braking rate zf laden 0.344
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 - zferf / (fzul * nf/ng))

min Ef = 4670 mm for E = 7285 mm
==========
min Ef = 4670 mm for E = 7285 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	=	2050 mm	height of center of gravity - laden
PR	=	18000 kg	maximum bogie mass - laden
P	=	32500 kg	maximum total mass - laden
nf	=	3	no. of axle(s) with TRISTOP spring brake actuators
ng	=	3	no. of bogie axle(s)

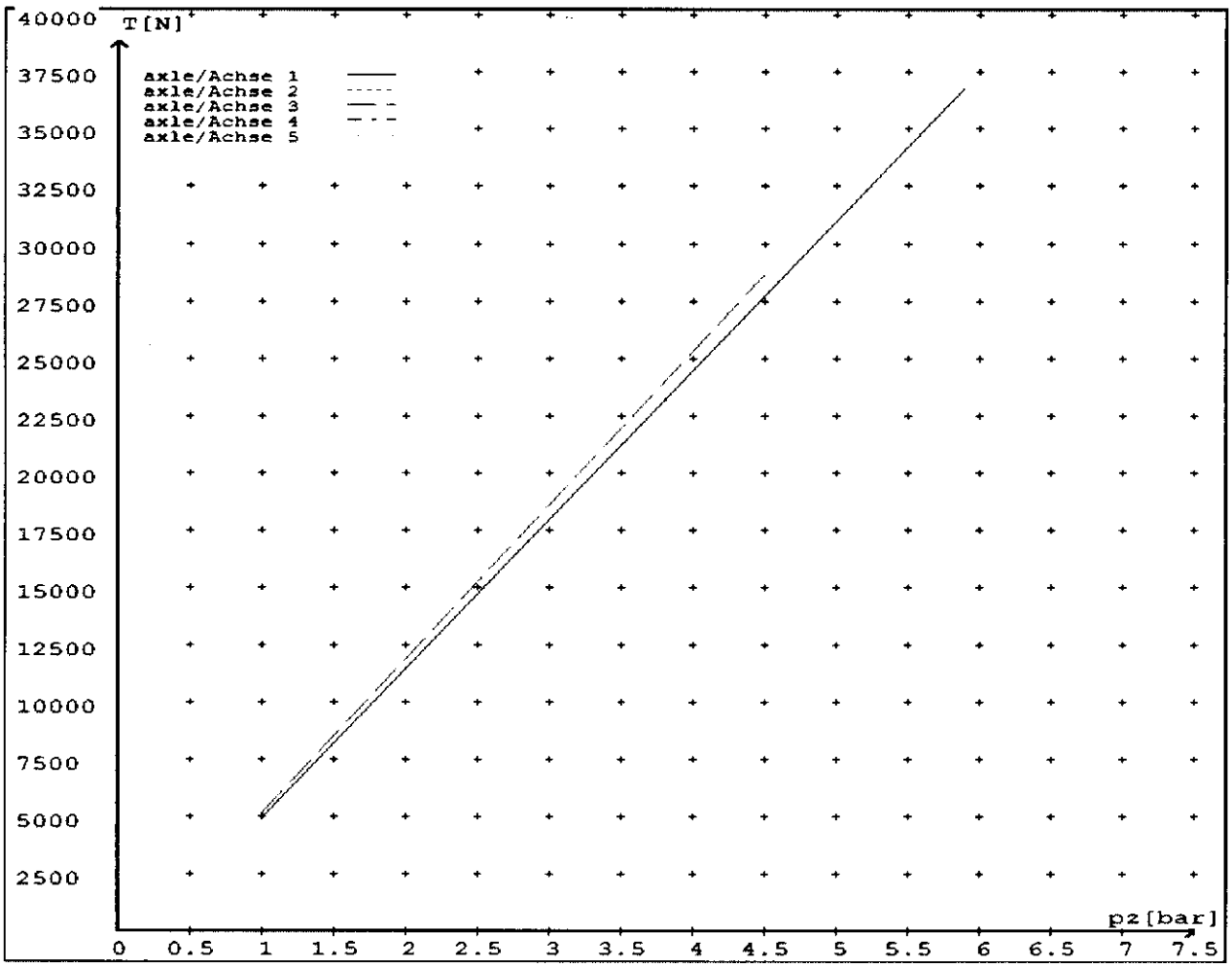
reference values

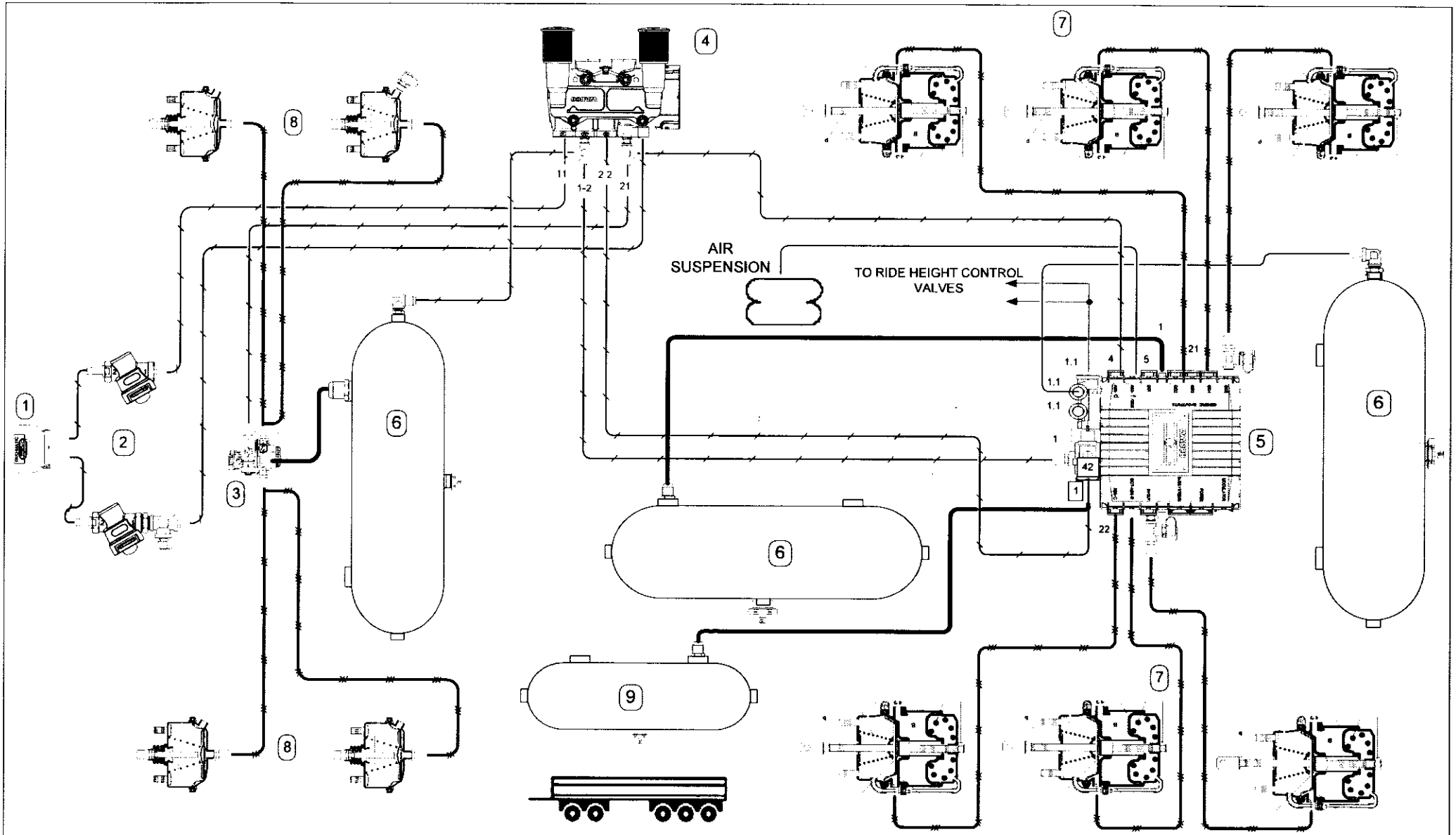
reference values for z = 50% for max rdyn: 421 mm

	pz [bar]	T [N]	T [N]
axle 1	1.0 5.9	4904 36820	
axle 2	1.0 5.9	4904 36820	
axle 3	1.0 4.5		5149 28618
axle 4	1.0 4.5		5149 28618
axle 5	1.0 4.5		5149 28618

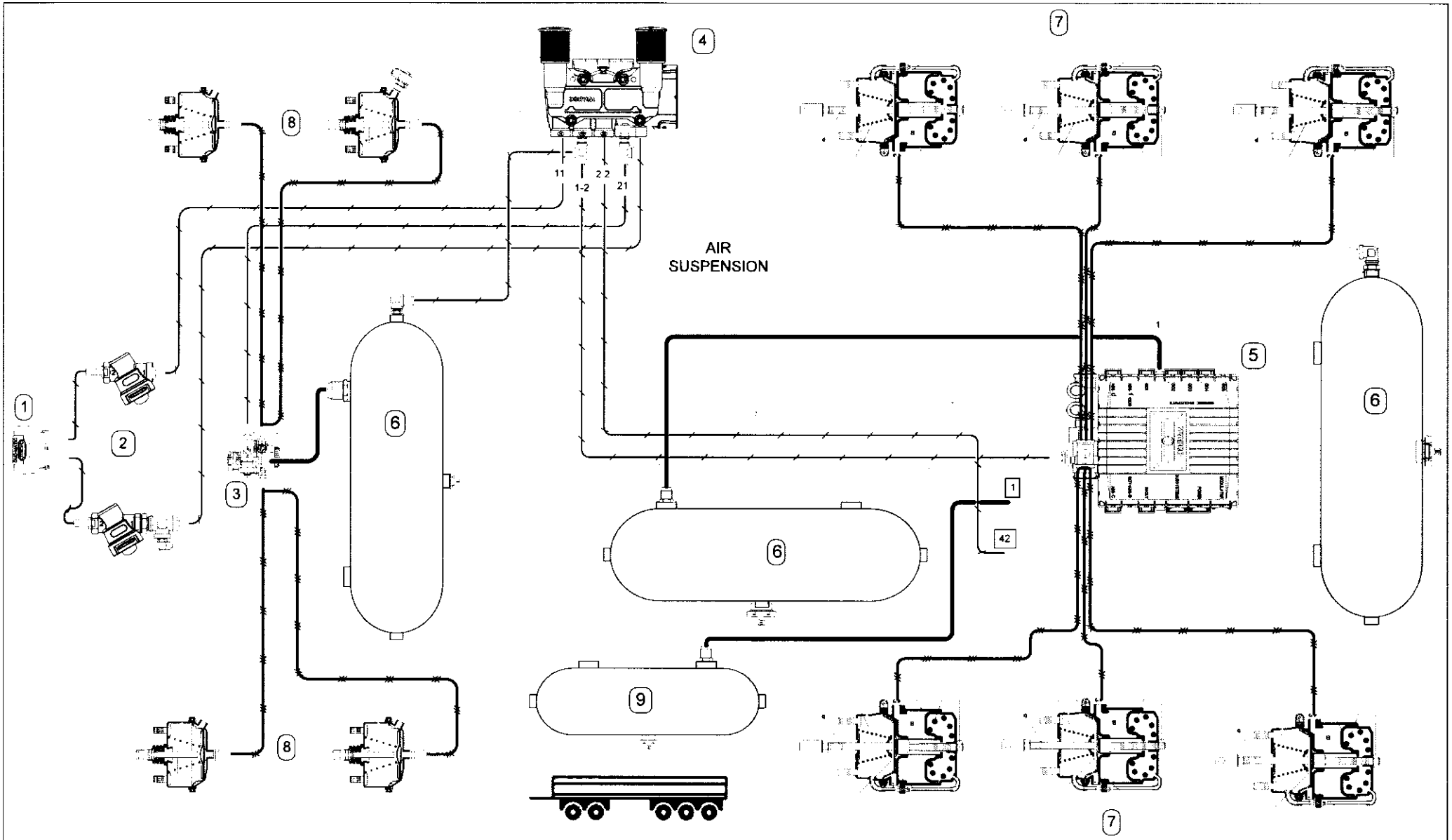
VIN - no.:

	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	24/	24/	24/30	24/30	24/30
Maximum stroke smax = ...mm maximaler Hub smax = ...mm	67	67	64	64	64
Lever length = ...mm Hebellänge = ...mm	127	127	127	127	127





GOUGH Transpecs	Domett T&T			ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION	PIPING LEGEND
	DOM5AXFULL/EBS 7A9E20016D1023129			1	1	452 804 001 0	Wabco Duo-Matic coupling	9	1	9534	24.5 Ltr Air Tank	3/8" Rubber
				2	2	432 500 020 0	Wabco control line filter	10				3/8" Rubber
				3	1	480 207 202 0	Wabco EBS 3rd modulator	11				1/2" Rubber
				4	1	971 002 900 0	Wabco PREV	12				15mm Nylon
				5	1	480 102 0.. 0	Wabco TEBS – E (premium)					12mm Nylon
WABCO	SIZE: A4	SPEC REFERANCE: 1129	MODEL NUMBER: E2001	6	3	12113P	46 Ltr Air tank					8mm Nylon
	REV: 1			7	6	2430GC @127mm	TSE Spring brake chamber					8mm Nylon
Copyright Transpecs 2010 All rights reserved	SCALE	SERVICE LINES		8	4	24S @ 127mm	TSE Service brake chamber					8mm Nylon



Domett T&T

GOUGH Transpecs

DOM5AXFULL/EBS
7A9E20016D1023129

WABCO

SIZE	SPEC REFERANCE	MODEL NUMBER	REV
A4	1129	E2001	1
SCALE	PARK LINES		

ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
1	1	452 804 001 0	Wabco Duo-Matic coupling	9	1	9534	24.5 Ltr Air Tank
2	2	432 500 020 0	Wabco control line filter	10			
3	1	480 207 202 0	Wabco EBS 3rd modulator	11			
4	1	971 002 900 0	Wabco PREV	12			
5	1	480 102 0.. 0	Wabco TEBS – E (premium)				
6	3	12113P	46 Ltr Air tank				
7	4	2430GC	TSE Spring brake chamber				
8	4	24S	TSE Service brake chamber				

PIPING LEGEND:

- 3/8" Rubber
- 3/8" Rubber
- 1/2" Rubber
- 15mm Nylon
- 12mm Nylon
- 8mm Nylon
- 8mm Nylon
- 8mm Nylon

GOUGH Transpecs

P.O.Box 98-971 — South Auckland Mail Centre

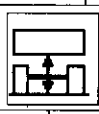
J.HIRST (JEH)

DATE	14-Feb-13	BRAKE SYSTEM	WABCO EBS-E
CERT. NO.	JH130202	PREV EXEMPTION	HVB13/018
VIN / CHASSIS	7A9E20016D1023129		
BRAKE CHAMBERS FRONT	24S TSE (Max stroke = 67mm)		
BRAKE CHAMBERS REAR	2430GC TSE (Max stroke = 64mm)		
SLACK LENGTH FRONT	127 mm	TYRE SIZE FRONT	265 70 R 19.5
SLACK LENGTH REAR	127 mm	TYRE SIZE REAR	265 70 R 19.5
THIS VEHICLE COMPLIES WITH THE NZ HVBR 32015/2 - SCHEDULE 5		LINING MATERIAL FRONT	ROR 685 AF
		LINING MATERIAL REAR	ROR 685 AF

WABCO — **TRAILER EBS-E** — GGVS/ADR TUEH TB 2007 - 019.00 TDB0855

HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT				
TYP TYPE TYPE	5AFT C/SIDE				
FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS	7A9E20016D1023129				
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP50767				
POLRADZÄHNEZAHL c-d | e-f POLE WHEEL TEETH c-d | e-f DENTS ROUE DENTÉE c-d | e-f	90	90	ABS-System ABS-System Système ABS	4S/3M	
RSS RSS RSS Einbefestigung Single Tyre Monte simple		Lenkachse Steering axle Essieu Vireur			
Zwillingsbereifung Twin Tyre Monte jumelée	X	Kippkritisches Fahrzeug Critical Trailer Véhicule critique			
Subsystems	—		I/O		

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



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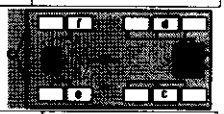

	pm (bar)		6.5	pm (bar)		0.7	2.0	---	6.5					(bar) 1.0	(bar) Pz
ACHSE AXLE ESSIEU	(kg)			(kg)					pz		TYP TYPE	(mm)	(mm)	TR (daN)	
1	1600	0.6	2.0	7250	4.7	0.3	1.4	---	5.9	-	24	67	127	490	3681
2	1600	0.6	2.0	7250	4.7	0.3	1.4	---	5.9	-	24	67	127	490	3681
3	1400	0.5	1.7	6000	3.9	0.4	1.4	---	4.5	-	24 / 30	64	127	514	2861
4	1400	0.5	1.7	6000	3.9	0.4	1.4	---	4.5	-	24 / 30	64	127	514	2861
5	1400	0.5	1.7	6000	3.9	0.4	1.4	---	4.5	-	24 / 30	64	127	514	2861

NZ TRANSPORT AGENCY
WAKA KOTAHI

NATIONAL OFFICE
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Wellington 6141
New Zealand
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www.nzta.govt.nz

Exemption: HVB13/018

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 T & T Ltd, 5 axle full-trailer**
VIN/CHASSIS: **7A9E20016D1023129**

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 9) 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 28th day of January 2013

Jackie Hartley
Administrator (Assessments)