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 7A9D35010D1023116

Component being certified:

Chassis Modification | Load Anchorage | Log Bolsters

Towing Connection | ✓ Brakes | SRT

Certification Category

HUEK.

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

HUBJZ 32015/2 SCHED 5.

Component Load Rating(s)

30000 KG.

General Drawing Number(s)

N/A.

Supporting Documents

BRAKE DESIGN CERTIFICATE – JH121221
PRE EXEMPTION REF – HUB12/396.

*Special Conditions

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

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 16.01.2013

Number 424281

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

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

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**

C J Clarke (CJC HVEK)

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, 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.

C J Clarke (CJC HVEK)

WABCO START-UP PROTOCOL

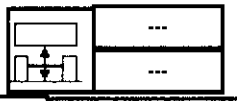
System	Trailer EBS-E	**WABCO part number**	480 102 080 0
Production date	2012-11-08	**Serial number**	897001005900G
Serial number (modulator)	000000018132		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2013-01-16 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

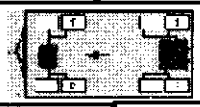
WABCO TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
HXS 15*8.625

HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT T&T
TYP TYPE TYPE	4AX BULK TIPPER
FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS	7A9D35010D1023116
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP50734
POLRADZAHNEZAHL c-d | e-f POLE WHEEL TEETH c-d | e-f DENTS ROUE DENTÉE c-d | e-f	100 / 100 — ABS-System / ABS-System / Système ABS: 4S/3M
RSS Einfachbereifung / Single Tyre / Monte simple	
RSS Zwillingsbereifung / Twin Tyre / Monte jumelée	X
Lenkachse / Steering axle / Essieu vireur	
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	---	---	---





AXLE ESSIEU	pm (bar)		6.5	pm (bar)		0.7	2.0	---	6.5		TYP TYPE	(mm)	(mm)	(bar) 1.0 TR (daN)	Pz
									pz						
1	1500	0.7	1.9	7500	4.7	0.3	1.3	---	6.2	-	24	67	152	622	4491
2	1500	0.7	1.9	7500	4.7	0.3	1.3	---	6.2	-	24	67	152	622	4491
3	1150	0.6	1.1	7500	4.7	0.3	1.4	---	4.2	-	24 / 30	64	140	611	2869
4	1150	0.6	1.1	7500	4.7	0.3	1.4	---	4.2	-	24 / 30	64	140	611	2869
5	0	---	---	0	---	---	---	---	---	-	---	---	---	---	---

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 T&T	**Vehicle ident. no**	7A9D35010D1023116
Vehicle type	4AX BULK TIPPER	**Odometer reading**	0.0 km
next Service	0 km	**Trip reading**	0.0 km
Tested by	Chris Clarke		
Date	2013-01-16 10:18:57 a.m.	**Signature**	

NZ TRANSPORT AGENCY
WAKA KOTAHI

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Exemption: HVB12/396

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, 4 axle full-trailer**
VIN/CHASSIS: **7A9D35002D1023116**

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 6th day of December 2012.

Jackie Hartley
Administrator (Assessments)

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

distribution: DOMETT T&T
7A9D35017D1023114 + 7A9D35019D1023115
7A9D35010D1023116 + 7A9D35012D1023117
7A9E20015C1023122

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 T&T

trailer model : 4AX BULK TIPPER

trailer type : 4-axle-full-trailer

remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS E
TRISTOP 3+4: 24/30
265/70 R 19,5

axle 1 + 2 + 3 + 4 : Hendrickson, HXS 15"x 8.625", ,

		unladen	laden
total mass	P in kg	5300	30000
axle 1	P1 in kg	1500	7500
axle 2	P2 in kg	1500	7500
axle 3	P3 in kg	1150	7500
axle 4	P4 in kg	1150	7500
wheel base	E in mm	4900 - 4900	
centre of gravity height	h in mm	1260	2092

		axle 1	axle 2	axle 3	axle 4
		manually	manually	manually	manually
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	0051.0BC	0051.0
brake chamber manufacturer		WABCO	WABCO	WABCO	WABCO
chamber size		24	24	24/30	24/30
lever length	lBh in mm	152	152	140	140
brake factor	[-]	8.70	8.70	8.70	8.70
dyn. rolling radius	rdyn min in mm	421	421	421	421
dyn. rolling radius	rdyn max in mm	421	421	421	421
threshold torque	Co Nm	10.0	10.0	10.0	10.0
calculation:					
chamber pressure(rdyn min)pH at z=22,5%bar		2.2	2.2	1.9	1.9
chamber pressure(rdyn max)pH at z=22,5%bar		2.2	2.2	1.9	1.9
chamber press.(servo)pcha at pm6,5bar	bar	6.2	6.2	4.2	4.2
piston force ThA at pm6,5bar	N	8556	8556	5915	5915
brake force(rdyn min)T lad. at pm6,5bar	N	54074	54074	34546	34546
brake force(rdyn max)T lad. at pm6,5bar	N	54074	54074	34546	34546
brake force within 1 % rolling friction proportion	%	25.6	25.6	24.4	24.4

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 or 480 207 2.. 0
EBS relay valve

brake cylinder: WABCO 423 106 9.. 0

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: WABCO 423 106 9.. 0

axle 3:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

brake cylinder: WABCO 925 376 005 0 / 925 376 2.. 0

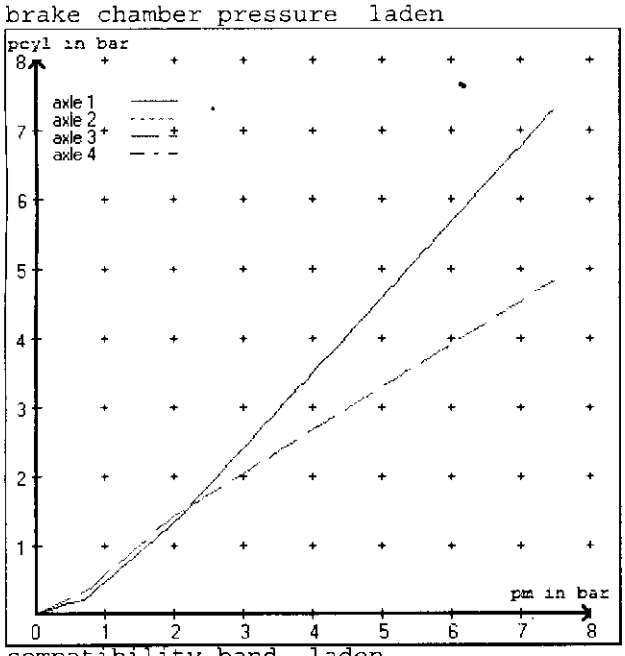
axle 4:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

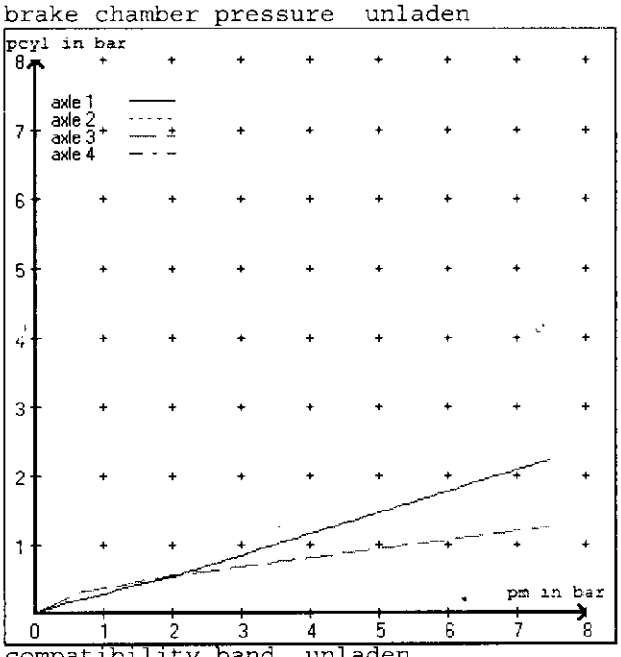
brake cylinder: WABCO 925 376 005 0 / 925 376 2.. 0

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	
at pm 3.5 bar =>	pcha in bar :	3.0	3.0	2.4	2.4	
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4	
at pm 1.2 bar =>	pcha in bar :	0.6	0.6	0.7	0.7	

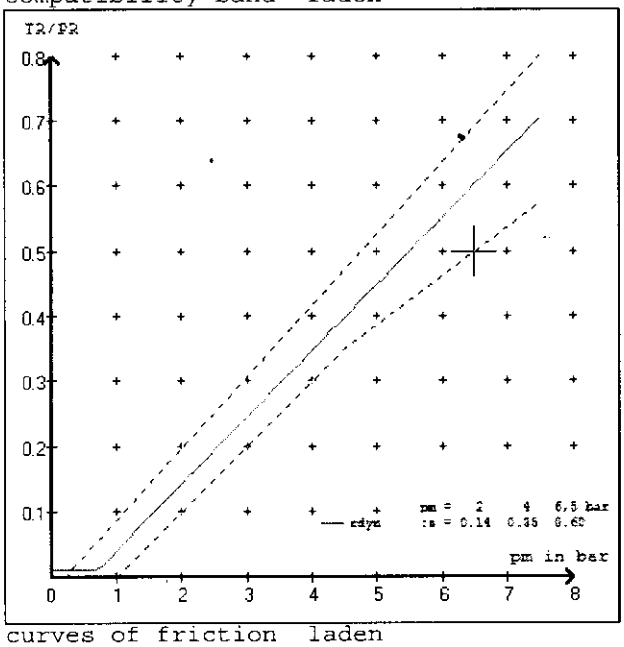
brake chamber pressure laden



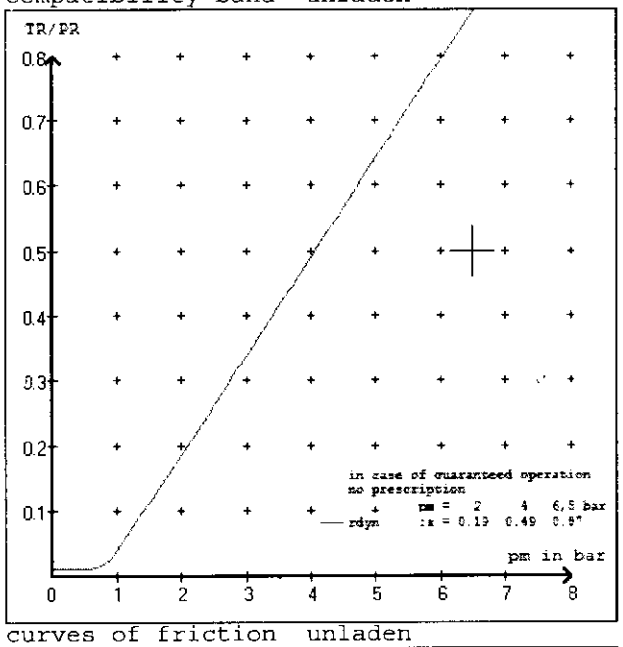
brake chamber pressure unladen



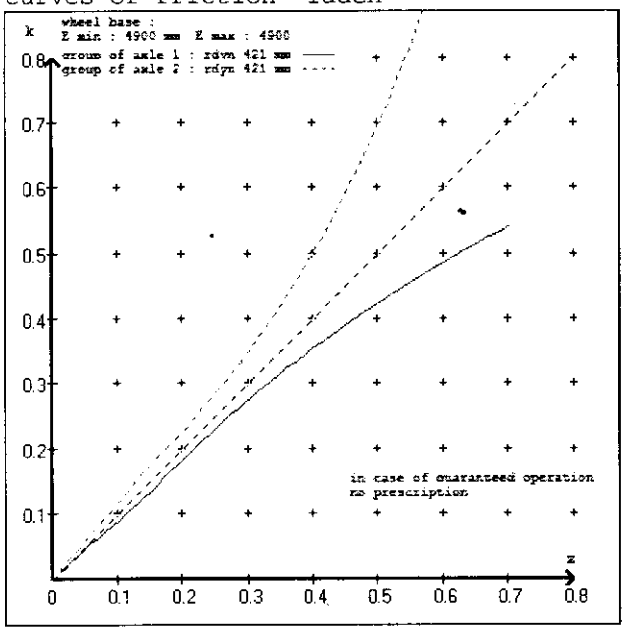
compatibility band laden



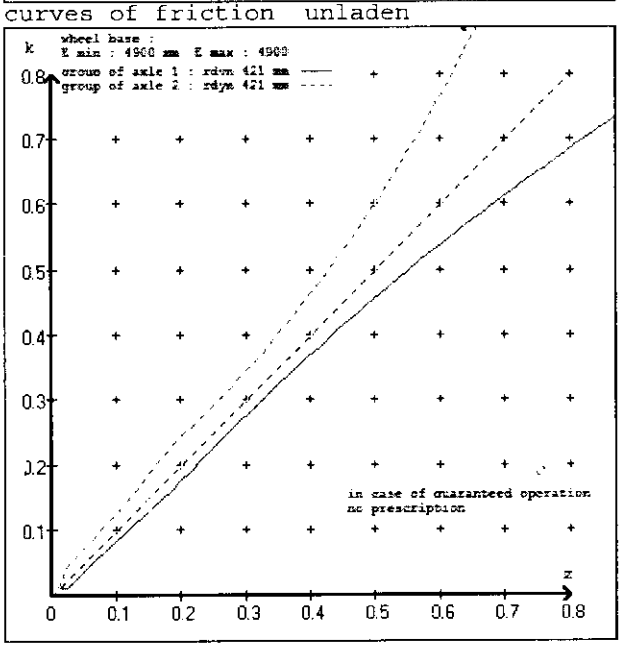
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT T&T
trailer model : 4AX BULK TIPPER
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 140 mm
axle 4 :	2 x type/diameter	24/30	(WABCO)	lever length 140 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.. 0	WABCO EBS trailer modulator	

EBS input data
==========
vehicle manufacturer: DOMETT T&T
trailer model : 4AX BULK TIPPER
trailer type : 4-axle-full-trailer
brake calculation no. : TP 50734A

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	1500	to be entered by the vehicle manufact.	1.9	7500	to be entered by the vehicle manufact.	0.3	1.3	6.2
2	1500		1.9	7500		0.3	1.3	6.2
3	1150		1.1	7500		0.3	1.4	4.2
4	1150		1.1	7500		0.3	1.4	4.2
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.
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axle 1		axle 2		axle 3		axle 4	
axle load	pcyl	axle load	pcyl	axle load	pcyl	axle load	pcyl
1500	1.9	1500	1.9	1150	1.1	1150	1.1
2000	2.3	2000	2.3	1650	1.3	1650	1.3
2500	2.6	2500	2.6	2150	1.6	2150	1.6
3000	3.0	3000	3.0	2650	1.8	2650	1.8
3500	3.3	3500	3.3	3150	2.1	3150	2.1
4000	3.7	4000	3.7	3650	2.3	3650	2.3
4500	4.0	4500	4.0	4150	2.6	4150	2.6
5000	4.4	5000	4.4	4650	2.8	4650	2.8
7500	6.2	7500	6.2	7500	4.2	7500	4.2

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

axle 1 : reference axle: HendricksonINTRAAX		brake lining: Abex 3030-197
test report :		date : 08/25/04
axle 2 : reference axle: HendricksonINTRAAX		brake lining: Abex 3030-197
test report :		date : 08/25/04
axle 3 : reference axle: HendricksonINTRAAX		brake lining: Abex 3030-197
test report :		date : 08/25/04
axle 4 : reference axle: HendricksonINTRAAX		brake lining: Abex 3030-197
test report :		date : 08/25/04

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 = 24.5 % Fe
axle 2	(rdyn 421 mm)	T = 24.5 % Fe
axle 3	(rdyn 421 mm)	T = 18.4 % Fe
axle 4	(rdyn 421 mm)	T = 18.4 % Fe

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

axle 1	(sp = 73 mm)	s = 46 mm
axle 2	(sp = 73 mm)	s = 46 mm
axle 3	(sp = 63 mm)	s = 42 mm
axle 4	(sp = 63 mm)	s = 42 mm

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

axle1	ThA = 8556 N
axle2	ThA = 8556 N
axle3	ThA = 5915 N
axle4	ThA = 5915 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 = 55814 N
axle 2	(rdyn 421 mm)	T = 55814 N
axle 3	(rdyn 421 mm)	T = 35663 N
axle 4	(rdyn 421 mm)	T = 35663 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	0.62
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 = 55814 N
axle 2	(rdyn 421 mm)	T = 55814 N
axle 3	(rdyn 421 mm)	T = 35663 N
axle 4	(rdyn 421 mm)	T = 35663 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	0.62
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
no of TRISTOP-actuators per axle line	KDZ	2	2
TRISTOP-actuator type		24/30	24/30
lever length	lBh in mm	140	140
stat. tyre radius	rstat max in mm	401	401
at a stroke of	s in mm	30	30
min. force of spring brake	TFZ in N	6360	6360
sp.brake chamber no 925		376 005 0	376 005 0
sp.brake chamber no 925		376 2.. 0	376 2.. 0
release pressure	pLs in bar	4.9	4.9

calculation:

ratio until road		3.0374	3.0374
iFb = lBh*Eta*C*rBt/(2*rBn*rstat)			
	for rstat in mm	401	401
brake force of spring br. Tf	in N	38202	38202
Tf = (TFZ*KDZ-2*Co/lBh)*iFb			
braking rate	zf laden	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 * (1 - PR/P + zferf * h/E) / (1 - zferf / (fzul * nf/ng))

min Ef = 3647 mm for E = 4900 mm
==========
min Ef = 3647 mm for E = 4900 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	=	2092 mm	height of center of gravity - laden
PR	=	15000 kg	maximum bogie mass - laden
P	=	30000 kg	maximum total mass - laden
nf	=	2	no. of axle(s) with TRISTOP spring brake actuators
ng	=	2	no. of bogie axle(s)

		axle 1 + 2 + 3 + 4	
axle manufacturer		Hendrickson	
type of brake		HXS 15"x 8.625"	
type of axle		INTRAAX	
test report no.			
test report of characteristic value			
adm. stat. axle load	Pstat	in kg	10500
tested axle load	Pe	in kg	10500
max. adm. tyre radius	Rezul	in mm	999
adm. cam. torque (6,5 bar)	Czul	in Nm	2020
lining area per brake	AB	in cm²	1351
no. of brake cylinder		-	2
brakefactor Bf		-	8.70
threshold torque (Co,dec)		in Nm	10
date		08/25/04	
brake lining		Abex 3030-197	
cam torque	Ce	in Nm	1480
brake force	TeIII	in daN	5220
stroke	seIII	in mm	46
tested tyre radius	Re	in mm	516
tested lever length	le	in mm	152
threshold torque (Co,e)		in Nm	9

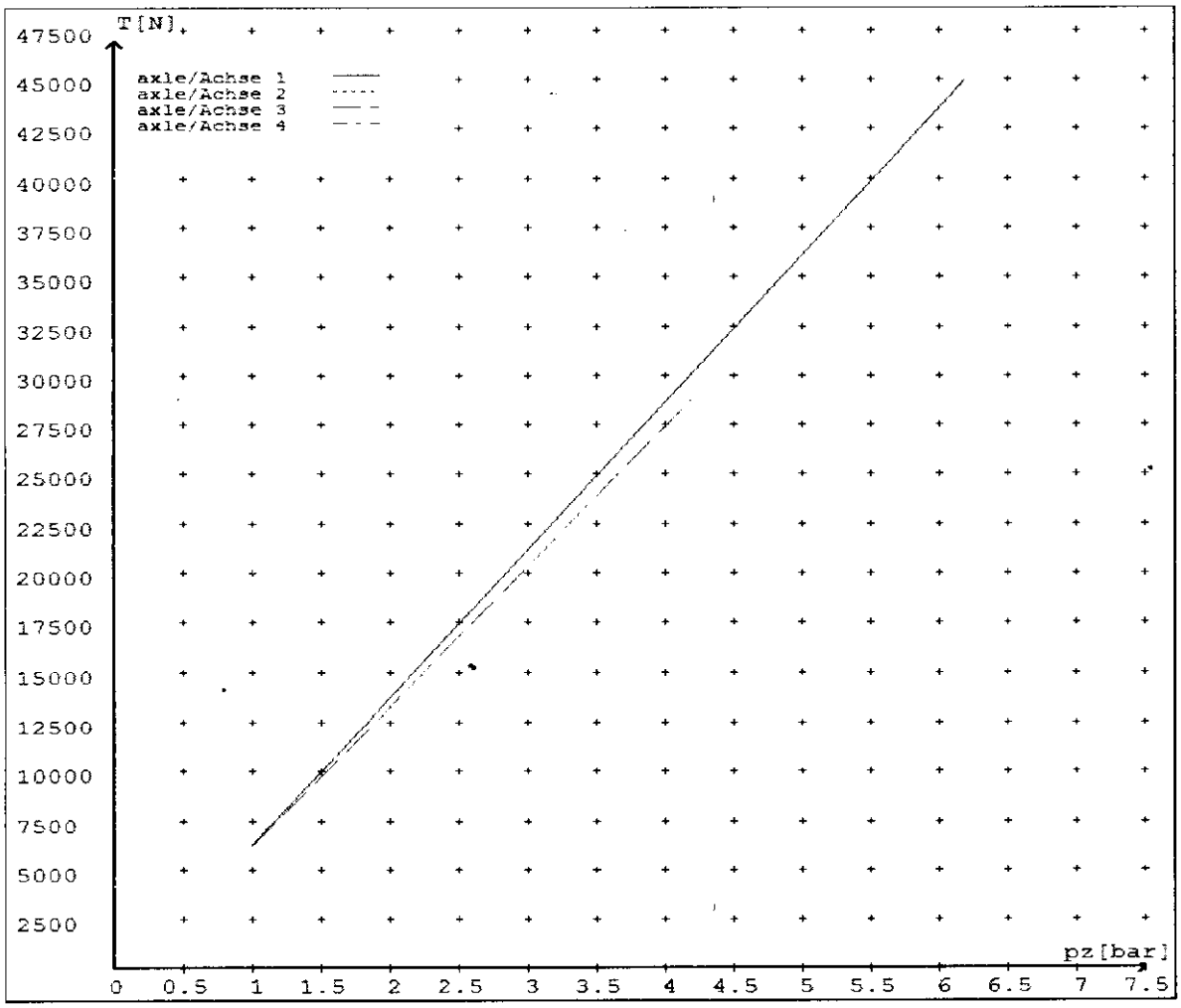
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0 6.2	6221 44912	
axle 2	1.0 6.2	6221 44912	
axle 3	1.0 4.2		6117 28692
axle 4	1.0 4.2		6117 28692

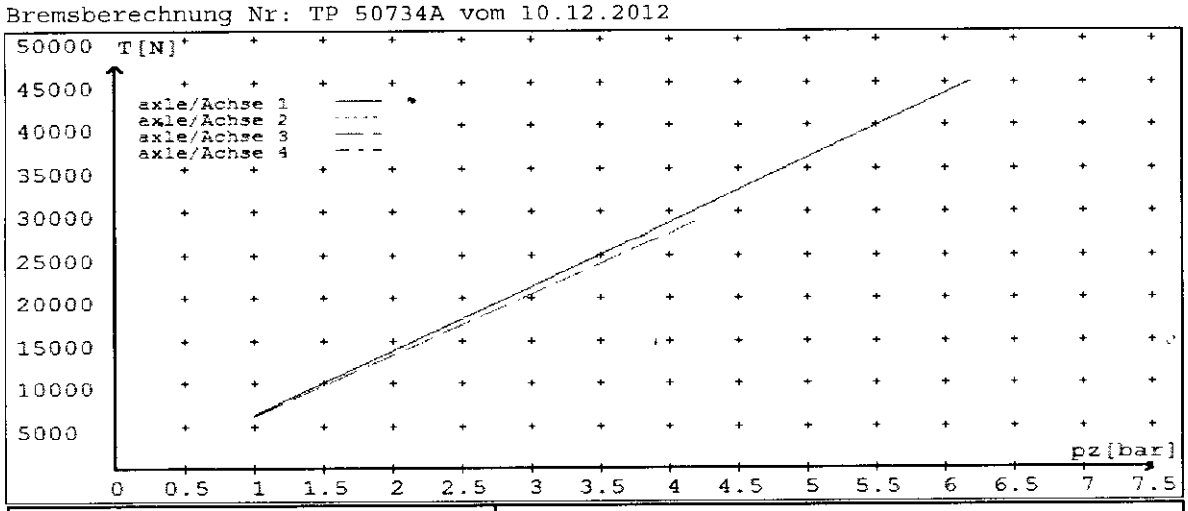
VIN - no.:

	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	67	67	64	64	
Lever length = ...mm Hebellänge = ...mm	152	152	140	140	



Print on WABCO no. 899 200 922 4 (only possible with laser printers!)

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 50734A date 10.12.2012
Bremsberechnung Nr: TP 50734A vom 10.12.2012



	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	67	67	64	64	
Lever length = ...mm Hebellänge = ...mm	152	152	140	140	

HVBR WORKSHEET

(PROCEDURE & COMPLIANCE DOCUMENTATION SHEET)

CERTIFICATE No. JH121221

CUSTOMER NAME	DOMETT T&T		
CUSTOMER ORDER No.	3947	DATE RECEIVED	10.10.12
VEHICLE TYPE	4 AXLE FULL TRAILER		
REG No.		CHASSIS No.	7A9D35010D1023116

BRIEF SPECIFICATION AS CERTIFIED TO HVBR

BRAKE CHAMBERS:
Type: 24 (TSE): Max stroke = 67 mm Lever length = 152 mm
Type: 2430 (TSE) : Max stroke = 64 mm Lever length = 140 mm

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

FRICTION LINING: OEM Aftermarket
(All) Lining Brand ABEX 3030-197

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

VALVES: AS PER BRAKE CALCULATION# TP50734: WABCO CHAMBERS ARE TSE

TYRE SIZE: 265 70 R 19.5

NOTES
PACKING SLIP NO. SO1521145 PROCESS TIME: 1

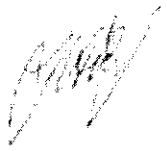
COMPLETION DATE : 20th Dec 2012 SIGNATURE (pp.):

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: 20th Dec 2012 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

WABCO — TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
HXS 15*8.625

HERSTELLER / MANUFACTURER / CONSTRUCTEUR	DOMETT T&T
TYP / TYPE / TYPE	4AX BULK TIPPER
FAHRZEUG IDENTNR. / CHASSIS NUMBER / NUMERO DE CHASSIS	7A9D35010D1023116
BREMSBERECHNUNGS-NR. / BRAKE CALCULATION NO. / CALCUL DE FREINAGE NO.	TP50734
POLRADZÄHNEZAHL c-d | e-f / POLE WHEEL TEETH c-d | e-f / DENTS ROUE DENTÉE c-d | e-f	100 | 100
ABS-System / ABS-System / Système ABS	4S/3M
RSS / RSS / RSS — Einfachbereifung / Single Tyre / Monte simple	
Lenkachse / Steering axle / Essieu vireur	
Zwillingsbereifung / Twin Tyre / Monte jumelée	X
Kippfurtisches Fahrzeug / Critical Trailer / Véhicule critique	
Subsystems	--- / I/O

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

ACHSE / AXLE / ESSIEU	pm (bar)		6.5	pm (bar)		0.7	2.0	---	6.5					(bar) 1.0	(bar) Pz
	(kg)			(kg)					pz		TYP / TYPE	(mm)	(mm)	TR (daN)	
1	1500	0.7	1.9	7500	4.7	0.3	1.3	---	6.2	-	24	67	152	622	4491
2	1500	0.7	1.9	7500	4.7	0.3	1.3	---	6.2	-	24	67	152	622	4491
3	1150	0.6	1.1	7500	4.7	0.3	1.4	---	4.2	-	24 / 30	64	140	611	2869
4	1150	0.6	1.1	7500	4.7	0.3	1.4	---	4.2	-	24 / 30	64	140	611	2869
5	0	---	---	0	---	---	---	---	---	-	---	---	---	---	---

GOUGH Transpecs

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

J.HIRST (JEH)

DATE	21-Dec-12	BRAKE SYSTEM	WABCO EBS-E
CERT. NO.	JH121221	PREV EXEMPTION	HVB12/396
VIN / CHASSIS	7A9D35010D1023116		
BRAKE CHAMBERS FRONT	24S TSE		
BRAKE CHAMBERS REAR	2430GC TSE		
SLACK LENGTH FRONT	152 mm	TYRE SIZE FRONT	265 70 R 19.5
SLACK LENGTH REAR	140 mm	TYRE SIZE REAR	265 70 R 19.5
THIS VEHICLE COMPLIES WITH THE NZ HVBR 32015/2 - SCHEDULE 5		LINING MATERIAL FRONT	ABEX 3030-197
		LINING MATERIAL REAR	ABEX 3030-197

NZ TRANSPORT AGENCY
WAKA KOTAHI

NATIONAL OFFICE
50 Victoria Street
Private Bag 6995
Wellington 6141
New Zealand
T 64 4 894 5400
F 64 4 894 6100
www.nzta.govt.nz

Exemption: HVB12/396

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, 4 axle full-trailer**
VIN/CHASSIS: **7A9D35002D1023116**

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 Claus : 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 b 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 6th day of December 2012.

Jackie Hartley
Administrator (Assessments)