

Heavy Vehicle Specialist Certificate

Heavy Vehicle Specialist Inspector and Inspecting Organisation

Heavy Vehicle Specialist Inspector's Name (PRINT IN-CAPS) TRSP ABOLL STUART VIN / Chassis Number Vehicle Registration* 7A9D15010G1023038 Component being certified: Chassis Modification Load Anchorage Log Bolsters **✓** Brakes **Towing Connection** SRT Certification Category HUEK Description of Work Certify to Broke Rule 32015/2 Code/Standard Certified to Component Load Rating(s) NEAB Rule Schoolule 5 General Drawing Number(s) NH Supporting Documents
Broke cert No JH120407
PREU value exempt No HVB12/052. EBS Control - Worning lamp mustilluminate when ignition Swilched on and Cyfinguish immediately or when vehicle reaches TKph. Certification Expiry Date (if applicable) Hubodometer Reading (whichever comes first) Declaration Designer's ID (if certified by a manufacturer) I the undersigned, declare that I am the Heavy Vehicle Specialist Inspector identified above and I hold a current valid Inspector's / Belegate's Signature appointment. I certify that the above mentioned vehicle component's design, manufacture and installation, and this *Delegate's Name (PRINT IN CAPS) 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

COF Vehicle Inspector ID:

contained in this Certificate is true and correct.

COF Vehicle Inspector Signature:

Date

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

New Zealand Government

Form ID

LT400

Version No. 01/09

404060



Document: Exemption:

B1193636 HVB12/052 Level 9, PSIS House 20 Ballance Street PO Box 5084 Lambton Quay Wellington 6145 New Zealand T 64 4 894 5200 F 64 4 894 3305

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

www.nzta.govt.nz

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, 4 axle full-trailer

VIN/CHASSIS: 7A9D15010C1023038

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:

- The vehicle must be fitted with a Wabco park-release emergency valve (PREV), Part Number: 971 002 900 0.
- The vehicle must be fitted with the Wabco PREV name plate, Part Number 971 002 103 4, adjacent to the PREV.
- 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.
- The installation of the PREV must be approved in writing by Transport Specialties Limited (Transpecs) or an NZ Transport Agency appointed HVEK certifier acting on behalf of, and under instruction from, Transpecs; 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
- 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 Transport Specialties Ltd.
- 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 22nd day of March 2012.

Jackie Hartley

Administrator (Assessments)



Statement of Design Compliance

S.O.D.C. number: JH120407

For Heavy vehicle brake specification (schedule 5) of HV Brake Rule 32015/2

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Make: Domett Trailers
Model: D1501

VIN#: 7A9D15010C1023038

 Chassis#:
 1038

 GCM (kgs):
 N/A

 GVM (kgs):
 30000

 Wheelbase (mm):
 7295

Axle test report #: ROR REPORT 36107104

Type: 4 Axle Platform deck trailer

Component Details:

Front Rear
Slack adjuster length: DISC DISC

Brake chamber size: 16(FM0305S16E) 16/24(1624HTLD64) **Tyre size:** 265 70 R 19.5 265 70 R 19.5

Drawing number: D1501

(for component reference)

Brake calculation#: TP50618

I declare that I am a Heavy Vehicle Specialist Certifier – Engineer and I hold a current valid appointment. I certify that this vehicle component design and this certification comply in all respects with the Land Transport Rule:

Vehicle Standards Compliance 2002; my Deed of Appointment and applicable requirements. To the best of my knowledge the information contained in this certificate is true and correct.

LT400 NO 404060

Dated: 07/05/2012

Date: 23 Apr 2012

Name: John Hirst (HVEK)

Signed: NSP, att

Certifier ID: JEH

, Ron PRATT , certify that the braking system has been assembled

and programmed*) to the requirements of this Design Certificate.

*) Programmed according to Wabco's End of Line protocol requirements where applicable.

HVBR WORKSHEET (PROCEDURE & COMPLIANCE DOCUMENTATION SHEET)

	CERTIF	FICATE No.	JH12	0407					
CUSTOMER NAME		DOMETT T&T							
CUSTOMER ORDER NO	3738	DATE R	RECEIVED	17.02.12					
VEHICLE TYPE		4 AXLE FU	JLL TRAILER	8					
REG No.	CHASSIS No.	7A	9D15010C102	3038					
BRIEF SPE	CIFICATION	N AS CERT	IFIED TO I	HVBR					
Type: 1624 (TSE) : Ma	Type: 16 (MASTER): Max stroke = 67 mm Lever length = 74 mm Type: 1624 (TSE): Max stroke = 64 mm Lever length = 74 mm								
FRICTION LINING: (All) Lining Brand		Aftermarke AF	t						
EBS CONTROL: IF SPECIAL VALVES: AS PER BRAKE TYRE SIZE: 265 70 R 19.5	CALCULATION		NSTRUCTION (ON LT400					
NOTES PACKING SLIP NO. MERITOR CHAMBERS IN	TP50618 ARE Ma		PROCESS TIME: IE FRONT – TSI						
COMPLETION DATE: 23	^d Apr 2012	SIGNATURE (p	p.):						

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.

Signed (pp.):

23rd Apr 2012

Name: J E Hirst

Certifier's identification

Date:

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 Spec	ialties Ltd	

Cnr Kerrs & Ash Roads, Wiri, Auckland

PO Box 98 971, Manukau City 2241

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.

MROD

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

- Responsibilities of operators 10.1
 - A person who operates a vehicle must ensure that the vehicle complies with this Rule
- Responsibilities of repairers 10.2

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.
- Responsibilities of modifiers 10.3

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.
- Responsibilities of manufactures and retailers 10.5

Month

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)



265 70 R 19.5 HVB12/052 24V EBS South Auckland Mail Centre **PREV EXEMPTION** TYRE SIZE FRONT BRAKE CHAMBERS FRONT 16 (MASTERFM0305S16E - 67mm) 23-Apr-12 BRAKE SYSTEM BRAKE CHAMBERS REAR 1624 (TSE 1624HTLD64 - 64mm) 7A9D15010C1023038 JH120407 74mm SLACK LENGTH FRONT J.HIRST (JEH) P.O.Box 98-971 VIN / CHASSIS CERT. NO. DATE

265 70 R 19.5

TYRE SIZE REAR

74mm

SLACK LENGTH REAR

LINING MATERIAL FRONT ROR 8616AF

THIS VEHICLE COMPLIES WITH THE NZ

HVBR 32015/2 - SCHEDULE 5

ROR 8616AF

LINING MATERIAL REAR

Domet Copy



Document: B1193636 Exemption: HVB12/052 Level 9, PSIS House 20 Ballance Street PC Box 5084 Lambton Quav Wellington 6145 New Zealand T 64 4 894 5200 F 64 4 894 3305

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Signed at Wellington this 22nd day of March 2012.

Jackie Hartley

Administrator (Assessments)

WABCO START-UP PROTOCOL								
System	Trailer EBS-E	WABCO part number	480 102 064 0					
Production date	2011-11-25	Serial number	896004792200D					
Fingerprint Customer EOL / Customer Development / Flash Program	W 033869 / 2012-05-	W 033869 / 2012-05-07 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00						

	rprint Cu opment /			Customer n		W 03	3869	/ 201	2-05-0	7 ; 00	000000 / 0	000-00-00	; 00000000	0 / 0000-00)-00	
W	IA	B	CC				TR	AILI	ER E	BS-		VS/ADR TUEH T	B 2007 - 019.00			
IERSTELLER MANUFACTU CONSTRUCT	RER :	DOI	VETT	T&T				SIO		Pin1		Pin	3	Pir	4	
YP YPE	LOK		4AX	F/T				1								
YPE AHRZEUG H HASSIS NU	MBER			150100	1023	038		3		ALS2	<u> </u>	ALS	2			
UMERO DE REMSBERE	CHASSIS CHNUNGS-NR. ULATION NO.		TP50					4							•	
ALCUL DE I OLRADZĂH	REINAGE NO. NEZAHL c-d e . TEETH c-d e	.! .f	90	QA AB	S-System (4S/3M	-	5		DIAG		DIA	G	DIA		
ENTS ROLE	DENTÉE c-d Einfachbereifur Single Tire	e-I		Lenkachse Steering axie	stème ABS	1010111	\dashv	7	_						<u> </u>	
RSS RSS RSS	Monte simple Zwillingsbereif Twin Tire	ung	X	Essieu vireur Kippkritisches F Critical Trailer	ahrzeug		-			<u> </u>	- _	-	JEW.			
	Monte jumelée			Véhicule critique	-	 	-			╠┰┇	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		%_ _+			
Subsy	stems									; <u></u>	<u></u> : ::		<u> </u>			
		-50	1 -			- 00	- ^ ^			<u> </u>				(b)	ar) Pz	
CHSE	pm (b	ar)	6.5	 -	(bar)	0.7	2.0		6.5		ТҮР	(mm)		TR (dal		
XLE SSIEU	1 100		(0)			0.5	()		6.5		16	(mm)	(mm)	378	3773	
2	1400	0.5			4.9	0.5	1.7		6.5	-	16	67	74	378	3773	
3	1400	0.5			4.9	0.4	1.6		5.8	-	16 / 24	64	74	441	3586	
4	1400	0.5	1.8	7500	4.9	0.4	1.6		5.8	-	16 / 24	64	74	441	3586	
_ 5	0			0	***		<u></u>			-						
iagn	ostic m	nemo	ry	ок					Warr	ning la	mp contro	1	ОК			
aram	eter se	etting		can	ried ou	ıt			Stop	light	power sup	ply	Not te	sted	d	
BS p	ressur	e tes	t	ОК					Liftir	ng axle	etest		Not te	sted		
Redur	ndancy	test		ок					ECA	S dist	ance senso	or calibratio	n Not te	sted		
	ensor		ınmen	it OK	.	<u> </u>			Dista	ance s	ensor Axle	load calibr	. Not te	sted		
	heck		- -		t teste	d			Leak	test			Not te	sted		
	bilizer	test		No	t teste	d			Sign	al out	puts TEBS		Not te	sted		
-								•	1							
Diagn	ostic n	nemo	ry ELI	EX No	t teste	d			Sign	al out	puts ELEX		Not te	sted	··-	
TailG	JARDII	ight		No	t teste	d			Tail	GUARI	D		Not te	sted		
			-													
Manu	facture	r		DC	METT	T&T			v	ehicle	ident. no		7A9D150	10C102303	3	
Vehic	le type		<u>.</u>	4A	X F/T				Odometer reading 0.0 km							
	Service			0 k	.m				Т	rip rea	ading		0.0 km			
Teste	d by			Ro	n Prat	t	- 11		1				·	<i>A</i> 4	1	
Date				20	12-05-	07 1:59	9:57 P	 М				Sig	nature	MI	/vith	

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 T&T

7A9D15012C1023039 - JH120406 7A9D15010C1023038 - JH120407

This brake calculation is made under consideration of the legal precriptions mentioned above in the version valid alt 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. -title other venicle 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

DOMETT T&T vehicle manufacturer: trailer model 4AX F/T

4-axle-full-trailer trailer type :

remarks :

air / hydraulic / VA suspension WABCO TRAILER - EBS TRISTOP 3+4: T.16/24

265/70 R 19,5

axle 1 + 2 + 3 + 4 : ROR, Elsa 195 LE, 36107104 ECE,

		unladen	<u>laden</u>
total mass	P in kq	5600	30000
axle 1	P1 in kg	1400	7500
axle 2	P2 in kq	1400	7500
axle 3	P3 in kg	1400	7500
axle 4	P4 in kg	1400	7500
wheel base	E in mm	7295 - 7295	
centre of gravity height	h in mm	1110	2132

please note!

	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	BZ 163.1	BZ 163.1	BZ 119.6	BZ 119.6
brake chamber manufacturer	Meritor	Meritor	Meritor	Meritor
chamber size	16	16	T.16/24	
lever length 1Bh in mm	74	74	74	74
brake factor [-]	20.26	20.26		
dyn. rolling radius rdyn min in mm	421	421		
dyn. rolling radius rdyn max in mm	421			
threshold torque Co Nm	6.0	6.0	6.0	6.0
<pre>calculation: chamber pressure(rdyn min)pH at z=22,5%bar chamber pressure(rdyn max)pH at z=22,5%bar</pre>	2.7	2.7	2.5	2.5
chamber press.(servo)pcha at pm6,5bar bar				5.8
piston force ThA at pm6,5bar N	6146			
brake force(rdyn min)T lad. at pm6,5bar N	43928			41751
brake force(rdyn max)T lad. at pm6,5bar N brake force within 1 % rolling friction	43928	43928	41751	41751
proportion %	24.1	24.1	25.9	25.9

for rdyn min for rdyn max braking rate z laden 0.582 z = sum (TR)/PRmax0.582

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 EBS emergency valve

valve 2: 480 207 0.. 0 WABCO

EBS relay valve

brake cylinder: Meritor FM0305S16E

axle 2:

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

valve 2: 480 207 0.. 0 WABCO

EBS relay valve

brake cylinder: Meritor FM0305S16E

axle 3:

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

WABCO valve 2: 480 102 0.. 0

EBS trailer modulator

brake cylinder: Meritor 1624HTLD64

axle 4:

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

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

brake cylinder: Meritor 1624HTLD64

test type III (zIII = 0.30) for rdyn min : axle1 axle2 axle3 axle4 at pm 3.7 bar => pcha in bar: 3.5 3.5 3.2 3.2 test type III (zIII = 0.06) for rdyn min: axlel axle2 axle3 axle4 at pm 1.2 bar => pcha in bar: 1.0 1.0 0.9 0.9 Tansport Special. -brake calculation no: TP 50618A date 23.04.2012 page 5 / 8

DOMETT T&T vehicle manufacturer: 4AX F/T trailer model :

4-axle-full-trailer trailer type

brake chamber and lever length :

axle 1 : 2 x type/diameter 16 (Meritor) lever length 74 mm axle 2 : 2 x type/diameter 16 (Meritor) lever length 74 mm axle 3 : 2 x type/diameter T.16/24 (Meritor) lever length 74 mm axle 4 : 2 x type/diameter T.16/24 (Meritor) lever length 74 mm

brake diagram :

valve :

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

EBS input data

vehicle manufacturer: DOMETT T&T

: TP 50618A brake calculation no.

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

assignment pm / deceleration z: pm 0.7 bar z = 0.0002.0 bar z = 0.132(laden condition) 6.5 bar z = 0.580

	contro	l pressure pm	6,5	contro	l pressure pm	0.7	2.0	6.5
axle	axle axle load bellow pr. unladen unladen		brake pr. unladen	. ,		brake pr. laden		
1	1400	to be	2.1	7500	to be	0.5	1.7	6.5
2	1400	entered by	2.1	7500	entered by	0.5	1.7	6.5
3	1400	the vehicle	1.8	7500	the vehicle	0.4	1.6	5.8
4	1400	manufact.	1.8	7500	manufact.	0.4	1.6	5.8
5	0		0,0	0		0,0	0,0	0,0
		1						

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.

pcyl
1.8
2.1
2.5
2.8
3.1
3.4
3.8
4.1
5.8

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

```
.../... /K brake lining: ROR 8616 AF
36107104 ECE date : 30.10.2006
axle 1 : reference axle: ROR
          test report :
                                  .../... /K brake lining: ROR 8616 AF
axle 2 : reference axle: ROR
                                    36107104 ECE date : 30.10.2006
         test report :
                                    .../... /K brake lining: ROR 8616 AF
axle 3 : reference axle: ROR
                                    36107104 ECE date : 30.10.2006
          test report :
axle 4 : reference axle: ROR test report :
                                   .../... /K brake lining: ROR 8616 AF
                                    36107104 ECE date : 30.10.2006
calc. verif. of residual (hot) braking force type III
(item 4.2 of appendix I to annex VII)
                                              T = 20.8 \% Fe
                (rdyn 421 mm)
axle 1
                                              T = 20.8 \% Fe
                 (rdyn 421 mm)
axle 2
                                              T = 20.2 % Fe
                 (rdyn 421 mm)
axle 3
                                              T = 20.2 % Fe
                 (rdyn 421 mm)
axle 4
calculated actuator stroke in mm
(item 4.3.1.1 of appendix I to annex VII)
                (sp = 52 mm)
                                            s = 40 \text{ mm}
axle 1
                                            s = 40 \text{ mm}
axle 2
                  (sp = 52 mm)
                 (sp = 57 mm)
                                             s = 40 \text{ mm}
axle 3
                                            s = 40 \text{ mm}
                 (sp = 57 mm)
axle 4
average thrust output in N at pm = 6,5 bar (however max. pcha = 7,0 bar)
                                           ThA = 6146 N
                                           ThA = 6146 N
axle2
                                           ThA = 5840 N
axle3
                                           ThA = 5840 N
axle4
calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix I to annex VII)
                                             T = 47003 N
axle 1
                 (rdyn 421 mm)
                                             T = 47003 N
                 (rdyn 421 mm)
axle 2
                                             T = 44672 N
                 (rdyn 421 mm)
axle 3
                                             T = 44672 N
                 (rdyn 421 mm)
axle 4
                                         basic test type III
of subject (calculated)
                                         trailer (z) residual
                                                      (hot)braking
 braking rate of the vehicle
                                                       0.62
 (item 4.3.2 to appendix I to annex VII) 0.58
                                                     >= 0.4 and
 required braking rate
                                                     >= 0,6*z (0.35)
 (items 1.3.3 and 1.6.2 to annex II)
 calc, residual (hot) braking force in N
 (item 4.3.1.4 of appendix I to annex VII)
                                             T = 47003 N
                  (rdyn 421 mm)
 axle 1
                                             T = 47003 N
                  (rdyn 421 mm)
 axle 2
                                             T = 44672 N
                  (rdyn 421 mm)
 axle 3
                                             T = 44672 N
                  (rdyn 421 mm)
 axle 4
                                         basic test type III of subject (calcula
                                                      (calculated)
                                         trailer (z) residual
                                                      (hot)braking
 braking rate of the vehicle
                                             0.58
                                                        0.62
 (item 4.3.2 to appendix I to annex VII)
                                                     >= 0.4 and
 required braking rate
                                                      >= 0.6*z (0.35)
 (items 1.3.3 and 1.6.2 to annex II)
```

spring parking brake

		axle 3	axle 4
no of TRISTOP-actuators per axle	line KDZ	2	2
TRISTOP-actuator type		T.16/24	T.16/24
lever length 1	Bh in mm	74	74
stat. tyre radius rstat m	ax in mm	401	401
at a stroke of s	in mm	30	30
min. force of spring brake	TFZ in N	7605	7605
sp.brake chamber no Meritor		4	4
release pressure pL	s in bar		
		4.8	4.8
calculation:			
ratio until road		3.7388	3.7388
<pre>iFb = lBh*Eta*C*rBt/(rBn*rstat)</pre>	mm	401	401
for rstat in		56260	56260
brake force of spring br. Tf in	IA	36Z6U	50∠60

Test of the frictional connection required by the parking brake

zf laden

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 = 5202 mm for E = 7295 mm_____ min Ef = 5202 mmfor E = 7295 mm

Tf = (TFZ*KDZ-2*Co/1Bh)*iFb

zf = sum (Tf)/P + 0.01

braking rate

minimum distance between front axle(s) (trailer) or support (semitrailer) min Ef = and the rear axle(s) (resultant of the bogie) wheel base 0.80 maximum permissible frictional connection required fzul 0.18 maximum required braking ratio of the parking brake zferf =

0.392

= 2132 mm height of center of gravity - laden = 15000 kg maximum bogie mass - laden = 30000 kg maximum total mass - laden h PŔ Ρ no. of axle(s) with TRISTOP spring brake actuators no. of bogie axle(s) nf 2

2 ng

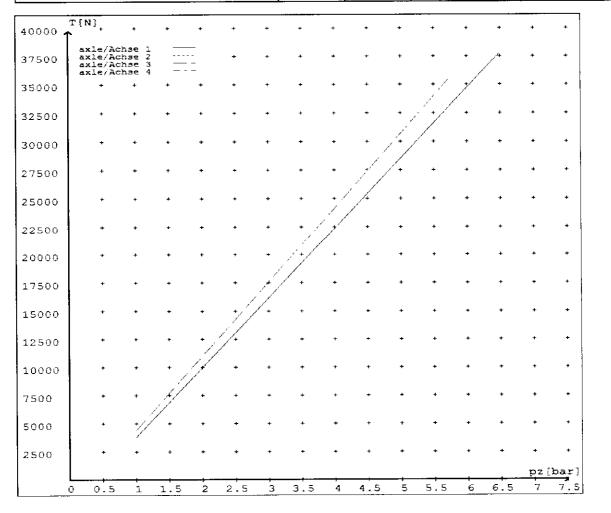
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0 6.5	3783 37739	
axle 2	1.0 6.5	3783 37739	
axle 3	1.0 5.8		4413 35869
axle 4	1.0 5.8		4413 35869

VIN - no.:

		Axle	(s) / Achs	e (n)	
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	16/	16/	T.16/24	T.16/24	/
Maximum stroke smax =mm maximaler Hub smax =mm	67	67	64	64	
Lever length =mm Hebellänge =mm	74	74	74	74	





OF Transpecs

TOP OF BODY 4250 HEIGHT TO

Through 152 HBR/052

				AV CDACE L AND VA
	TOP OF CHASSIS	W'BASE = 7295 mm		AX SPACE 1310 88

AX SPACE = 1510 MM

Domst

MODEL MAKE

PRIMARY TRUCK/TRACTOR MAKE/MODEL DELIVERY DATE EXPECTED

BRAKE KIT ORDERED ON ORDER NO. 3738

VN 7A9D15010C1023038

ABS YESKIO

EBS (YES/NO

VOLTAGE 1264

GVM TARE WEIGHT FRONT TARE WEIGHT REAR AXLE TYPE/MAKE OR "TDB/RDW" # FROM	1038 4 Axls 30000 2 2800 2 2800 ROR LM/T908 KMXA
ID PLATE ON AXLE SUSPENSION TYRE SIZE	ROR CS9 265/10 R 19.5

Master 16 ? 16/24.

