

Heavy vehicle specialist certificate

Must be presented to a CoF (heavy) inspecting organisation
 Heavy vehicle specialist inspector and inspecting organisation

Heavy vehicle specialist inspector's or manufacturing inspecting organisation's name (PRINT IN CAPS)	ID
CHRIS CLARKE	CJC

Vehicle registration (optional)	VIN/chassis number
	7A9D15013J1023760

Make DOMETT TRAILERS	Component being certified:	<input type="checkbox"/> Chassis	<input type="checkbox"/> Load anchorage
Model (optional)	<input type="checkbox"/> Log bolsters	<input type="checkbox"/> Towing connection	<input checked="" type="checkbox"/> Brakes
Certification category HVEK	<input type="checkbox"/> SRT	<input type="checkbox"/> PSV stability	<input type="checkbox"/> PSV rollover
	<input type="checkbox"/> Swept path	<input type="checkbox"/> PBS	

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015/4

RSS ON: TWIN TYRES / ~~SUPER-SINGLES~~ TYRE SIZE = 265 70 R 19.5

Code/standard/rule certified to LTR 32015/4	Component load rating(s) 28 Tonnes GVM
General drawing number(s) N/A	30 Tonnes Group ratings

Supporting documents

BRAKE CODE CERTIFICATE JH180513

BRAKE CALCULATION # TP51742

Special conditions (optional)

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

Certification expiry date (if applicable) N/A [UNLESS MODIFIED]	or	Hubodometer reading (whichever comes first)
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Declaration

I the undersigned, declare that I am the heavy vehicle specialist inspector identified 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 appointment. To the best of my knowledge the information contained in the certificate is true and correct.

Designer's ID (if different from inspector below)

Inspector's signature

Inspector's name (PRINT IN CAPS) ID number

CHRIS CLARKE CJC

Date Number

26-Jun-18 639296

CoF vehicle inspector ID	CoF vehicle inspector signature	Date

All fields are mandatory unless otherwise stated.

WABCO START-UP LOG

System	Trailer EBS-E	WABCO part number	480 102 084 0
Production date	2017-12-11	Serial number	437005060900M
Serial number (modulator)	000000005213		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2018-07-04 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		


WABCO		TRAILER EBS-E		GGVS/ADR TUEH TB 2007 - 019.00 TDB0459											
HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT TRAILERS		GIO	Pin1	Pin3	Pin4									
TYPE TYPE TYPE	4AFT GENERAL FREIGHT		1	24V-01	---	---									
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9D15013J1023760		2	---	---	---									
BREMSEBERECHNUNG-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP51742A		3	ALS2	ALS2	---									
POLRADZÄHNEZÄHL c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUE DENTÉE c-d e-f	90	90	4	---	---	---									
		ABS-System ABS-System Systeme ABS	5	DIAG	DIAG	DIAG									
RSS RSS RSS	Einfachbereifung Single Tire Monte simple	Lenkachse Steering axle Essieu avant	6	---	---	---									
	Zwillingsbereifung Twin Tire Monte jumelle	Kippritisches Fahrzeug Critical Trailer Véhicule critique	7	---	---	---									
Subsystems	SB	I/O	24N												
	pm (bar)	6.5	pm (bar)	0.8	2.0	---	6.5						(bar)		
ACHSE AXLE ESSIEU														1.0	Pz
														TR (daN)	
1	1350	0.5	1.7	7500	4.7	0.5	1.6	---	6.3	-	24	67	127	476	4308
2	1350	0.5	1.7	7500	4.7	0.5	1.6	---	6.3	-	24	67	127	476	4308
3	1200	0.4	1.3	7500	4.7	0.5	1.6	---	4.6	-	24 / 30	64	127	540	3049
4	1200	0.4	1.3	7500	4.7	0.5	1.6	---	4.6	-	24 / 30	64	127	540	3049
5	0	---	---	0	---	---	---	---	---	-	---	---	---	---	---

TEBS-E

Diagnostic memory	OK	Warning lamp control	OK
Parameter setting	carried out	Stop light supply	OK
EBS pressure test	OK	Lifting axle test	Not tested
Redundancy test	OK	ECAS height sensor calibration	Not tested
ABS sensor assignment	OK	Height sensor axle load	Not tested
RTR test	Not tested	Leak test	Not tested
Immobilizer test	Not tested	Signal outputs	Not tested
Signal inputs	Not tested	Tag axle test	Not tested

Electronic Extension Module

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

Manufacturer	DOMETT TRAILERS	Vehicle ident. no	7A9D15013J1023760
Vehicle type	4AFT GENERAL FREIGHT	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke	Signature 	
Date	2018-07-04 12:45:36 p.m.		

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

distribution: DOMETT TRAILERS
 7A9D15013J1023760
 SODC: JH180513
 LT400: CJC 639296

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 (V6.14.04.20).
 -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 V6.14.04.20 db 20.04.2016

vehicle manufacturer: DOMETT TRAILERS
 trailer model : 4AFT GENERAL FREIGHT
 trailer type : 4-axle-full-trailer
 remarks : air / hydraulic / VA suspension
 WABCO TRAILER - EBS E
 TRISTOP 3+4: 24/30 [TSE CHAMBERS ACTUALLY FITTED]
 265/70 R 19,5

axle 1 + 2 + 3 + 4 : SAF, SNK 367x180, TDB 0459 ECE,

		<u>unladen</u>	<u>laden</u>
total mass	P in kg	5100	30000
axle 1	P1 in kg	1350	7500
axle 2	P2 in kg	1350	7500
axle 3	P3 in kg	1200	7500
axle 4	P4 in kg	1200	7500
wheel base	E in mm	6300 - 6800	
centre of gravity height	h in mm	1000	2100

	<u>axle 1</u>	<u>axle 2</u>	<u>axle 3</u>	<u>axle 4</u>
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	BC 0069.2BC	0069.2BC	0051.0BC	0051.0
brake chamber manufacturer	BPW	BPW	WABCO	WABCO
chamber size	24.	24.	24/30	24/30
lever length	127	127	127	127
brake factor	9.73	9.73	9.73	9.73
dyn. rolling radius	421	421	421	421
dyn. rolling radius	421	421	421	421
threshold torque	30.0	30.0	30.0	30.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.3	2.3	2.0	2.0
chamber pressure(rdyn max)pH at z=22,5%bar	2.3	2.3	2.0	2.0
chamber press.(servo)pcha at pm6,5bar bar	6.2	6.2	4.5	4.5
piston force ThA at pm6,5bar N	8933	8933	6355	6355
brake force(rdyn min)T lad. at pm6,5bar N	51788	51788	36655	36655
brake force(rdyn max)T lad. at pm6,5bar N	51788	51788	36655	36655
brake force within 1 % rolling friction proportion %	25.1	25.1	24.9	24.9

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

brake cylinder: BPW 05.444.15...

axle 2:

valve 1: 480 207 0.. 0 WABCO or 480 207 2.. 0
 EBS relay valve

brake cylinder: BPW 05.444.15...

axle 3:

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

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

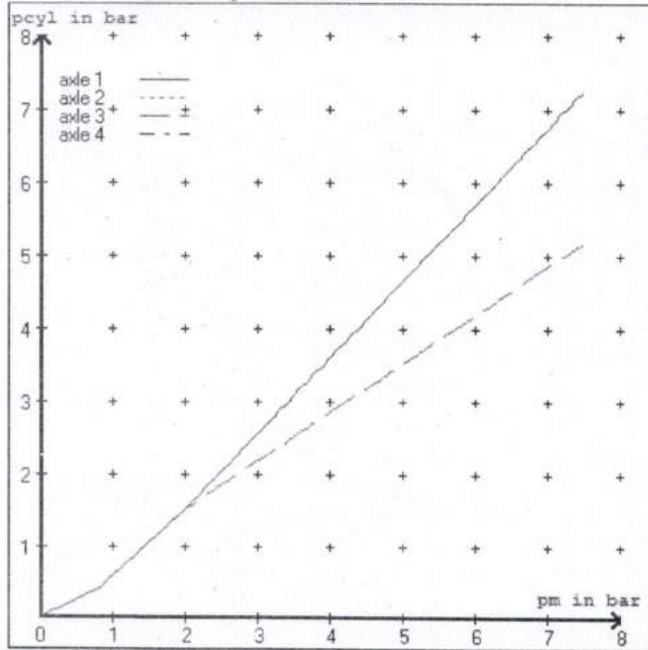
axle 4:

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

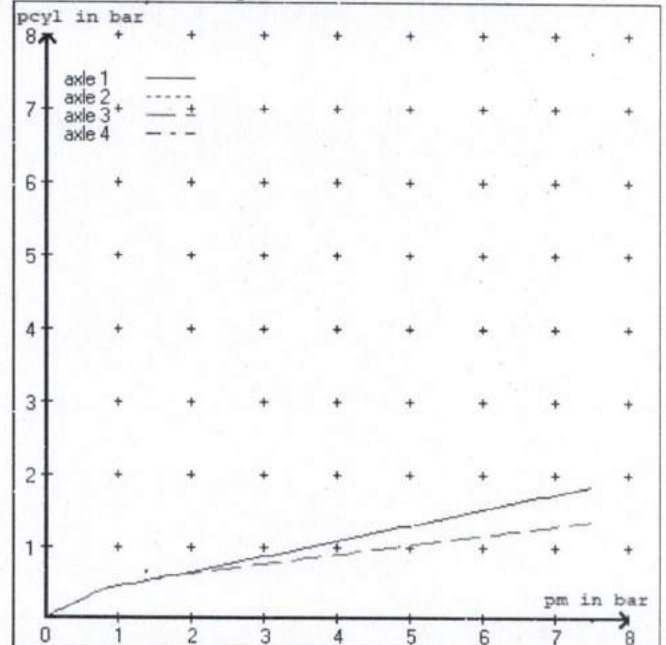
brake cylinder: WABCO 925 376 005 0 / 925 376 2.. 0

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	
at pm 3.5 bar =>	pcha in bar :	3.1	3.1	2.5	2.5	
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4	
at pm 1.3 bar =>	pcha in bar :	0.8	0.8	0.8	0.8	

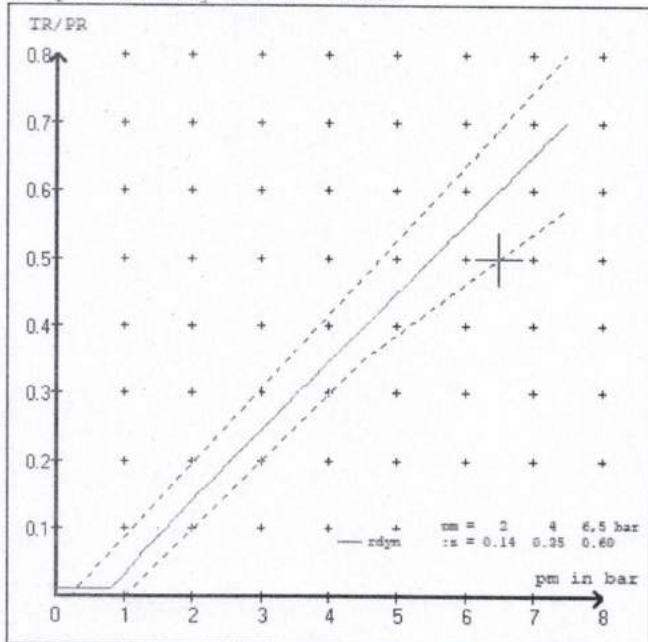
brake chamber pressure laden



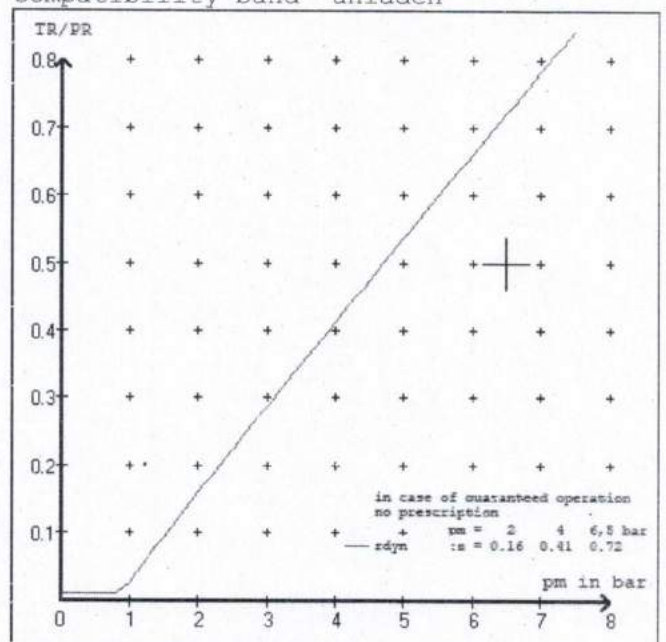
brake chamber pressure unladen



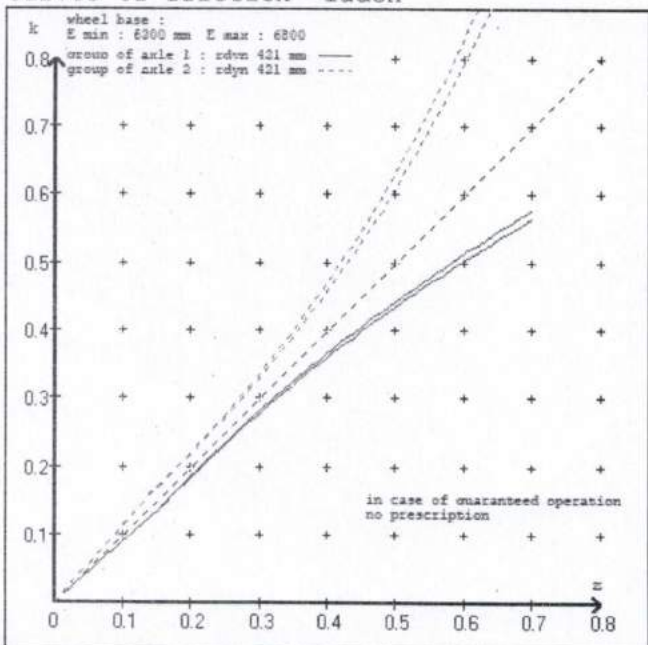
compatibility band laden



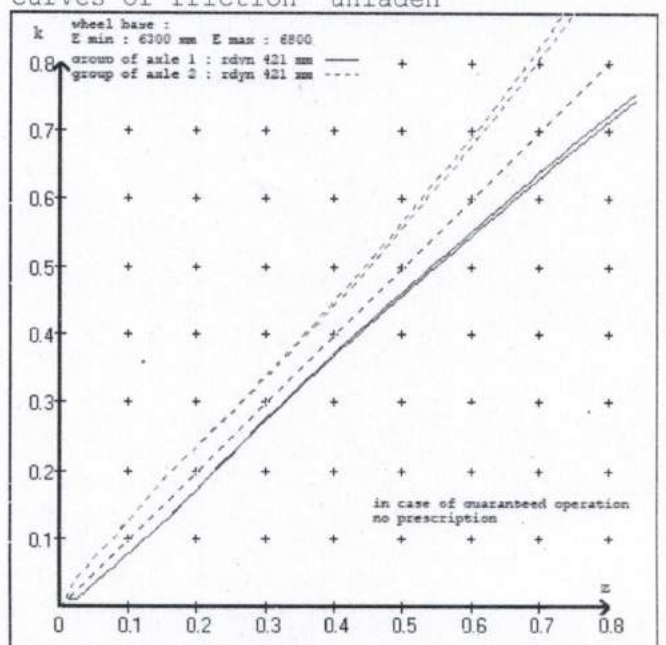
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT TRAILERS
 trailer model : 4AFT GENERAL FREIGHT
 trailer type : 4-axle-full-trailer

brake chamber and lever length :

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

brake diagram :

valve :

480 207 0.. 0 WABCO EBS relay valve or 480 207 2.. 0
 480 102 ... 0 WABCO EBS trailer modulator

EBS input data

=====

vehicle manufacturer: DOMETT TRAILERS
 trailer model : 4AFT GENERAL FREIGHT
 trailer type : 4-axle-full-trailer
 brake calculation no. : TP 51742A

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

assignment pm / deceleration z: pm 0.8 bar z = 0.010
 (laden condition) 2.0 bar z = 0.134
 6.5 bar z = 0.600

control pressure pm		6,5		control pressure pm		0.8	2.0	6.5
axle	axle load unladen	bellow pr. unladen	brake pr. unladen	axle load laden	bellow pr. laden	brake pr. laden		
1	1350	to be	1.7	7500	to be	0.5	1.6	6.3
2	1350	entered by the vehicle manufact.	1.7	7500	entered by the vehicle manufact.	0.5	1.6	6.3
3	1200		1.3	7500		0.5	1.6	4.6
4	1200		1.3	7500		0.5	1.6	4.6
5	0		0,0	0		0,0	0,0	0,0

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

=====

axle 1	axle 2	axle 3	axle 4
axle load pcyl	axle load pcyl	axle load pcyl	axle load pcyl
1350 1.6	1350 1.6	1200 1.2	1200 1.2
1850 2.0	1850 2.0	1700 1.5	1700 1.5
2350 2.3	2350 2.3	2200 1.7	2200 1.7
2850 2.7	2850 2.7	2700 2.0	2700 2.0
3350 3.1	3350 3.1	3200 2.2	3200 2.2
3850 3.5	3850 3.5	3700 2.5	3700 2.5
4350 3.8	4350 3.8	4200 2.8	4200 2.8
4850 4.2	4850 4.2	4700 3.0	4700 3.0
7500 6.2	7500 6.2	7500 4.5	7500 4.5

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

axle 1 : reference axle: SAF	SNK 3718	brake lining: BK 6386
test report :	TDB 0459 ECE	date : 20130801 01.08.2013
axle 2 : reference axle: SAF	SNK 3718	brake lining: BK 6386
test report :	TDB 0459 ECE	date : 20130801 01.08.2013
axle 3 : reference axle: SAF	SNK 3718	brake lining: BK 6386
test report :	TDB 0459 ECE	date : 20130801 01.08.2013
axle 4 : reference axle: SAF	SNK 3718	brake lining: BK 6386
test report :	TDB 0459 ECE	date : 20130801 01.08.2013

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 = 24.4 % Fe
axle 2	(rdyn 421 mm)	T = 24.4 % Fe
axle 3	(rdyn 421 mm)	T = 19.7 % Fe
axle 4	(rdyn 421 mm)	T = 19.7 % Fe

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

axle 1	(sp = 74 mm)	s = 54 mm
axle 2	(sp = 74 mm)	s = 54 mm
axle 3	(sp = 63 mm)	s = 54 mm
axle 4	(sp = 63 mm)	s = 54 mm

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

axle1	ThA = 8933 N
axle2	ThA = 8933 N
axle3	ThA = 6355 N
axle4	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 = 37666 N
axle 2	(rdyn 421 mm)	T = 37666 N
axle 3	(rdyn 421 mm)	T = 26743 N
axle 4	(rdyn 421 mm)	T = 26743 N

basic test	type III
of subject	(calculated)
trailer (E)	residual
	(hot)braking
	0.44

braking rate of the vehicle

(item 4.3.2 to appendix 2 to annex 11)

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 = 37666 N
axle 2	(rdyn 421 mm)	T = 37666 N
axle 3	(rdyn 421 mm)	T = 26743 N
axle 4	(rdyn 421 mm)	T = 26743 N

basic test	type III
of subject	(calculated)
trailer (E)	residual
	(hot)braking
	0.44

braking rate of the vehicle

(item 4.3.2 to appendix 2 to annex 11)

required braking rate

(items 1.5.3 and 1.7.2 to annex 11)

>= 0,4 and
>= 0,6*E (0.36)

axle manufacturer	axle 1 + 2 + 3 + 4
type of brake	SAF
type of axle	SNK 367x180
test report no.	SNK 3718
test report of characteristic value	TDB 0459 ECE
adm. stat. axle load	Pstat in kg 9000
tested axle load	Pe in kg 10200
max. adm. tyre radius	Rezul in mm 999
adm. cam. torque (6,5 bar)	Czul in Nm 2250
lining area per brake	AB in cm ² 1226
no. of brake cylinder	- 2
brakefactor Bf	- 9.73
threshold torque (Co,dec)	in Nm 30
date	20130801 01.08.2013
brake lining	BK 6386
cam torque	Ce in Nm 1594
brake force	TeIII in daN 4343
stroke	seIII in mm 59
tested tyre radius	Re in mm 518
tested lever length	le in mm 140
threshold torque (Co,e)	in Nm 28

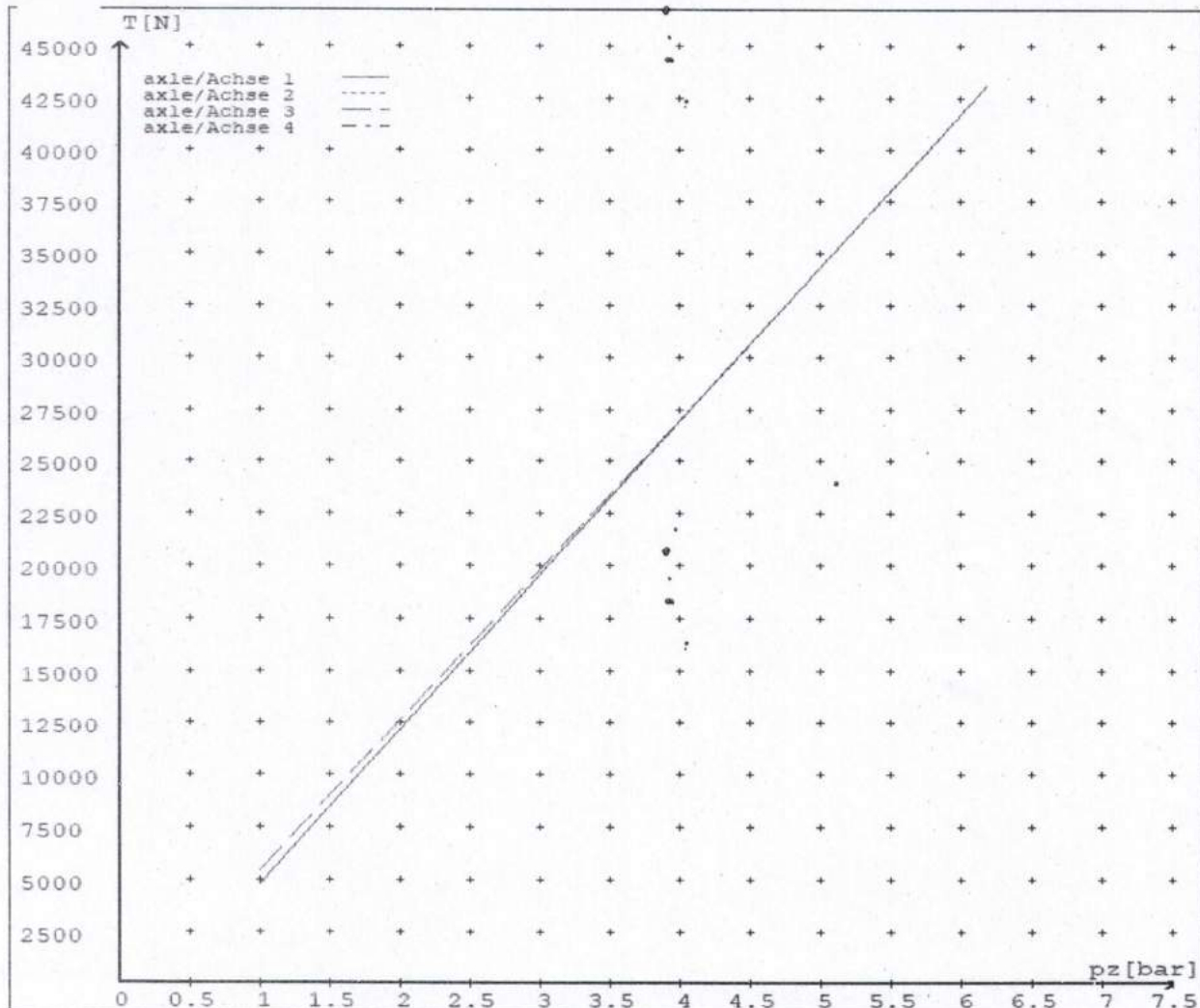
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0	4762	
	6.2	43085	
axle 2	1.0	4762	
	6.2	43085	
axle 3	1.0		5402
	4.5		30495
axle 4	1.0		5402
	4.5		30495

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	75	75	64	64	
Lever length =mm Hebellänge =mm	127	127	127	127	



reference values for $z = 0.5$

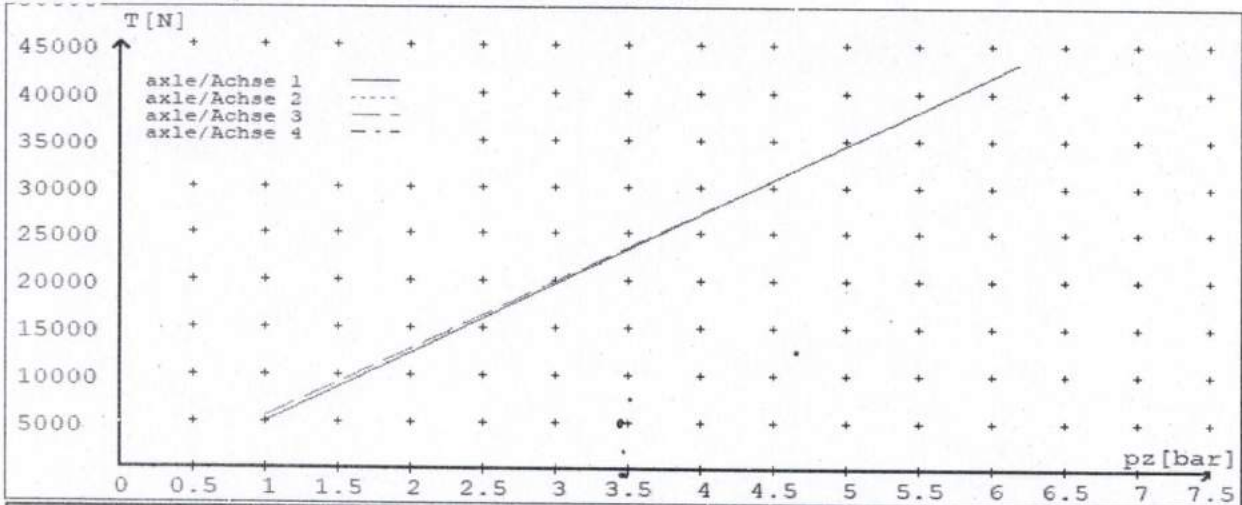
for max rdyn: 421 mm

Angabe der Referenzwerte für $z = 0.5$

für max rdyn: 421 mm

brake calculation no: TP 51742A date 27.06.2018

Bremsberechnung Nr: TP 51742A vom 27.06.2018



	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	24./	24./	24/30	24/30	/
Maximum stroke $s_{max} = \dots$ mm maximaler Hub $s_{max} = \dots$ mm	75	75	64	64	
Lever length = \dots mm Hebellänge = \dots mm	127	127	127	127	

**HEAVY VEHICLE BRAKE RULE
32015/4 WORKSHEET
(PROCEDURE DOCUMENTATION SHEET-PDS)
&
CONFIRMATION OF COMPLIANCE**

CERTIFICATE NO.

JH180513

CUSTOMER NAME

DOMETT TRAILERS

CUSTOMER ORDER NO.

5412

DATE RECEIVED

26-Jun-18

VEHICLE TYPE

GENERAL FREIGHT

VIN/ CHASSIS NO.

7A9D15013J1023760

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

<u>BRAKE VALVES</u>	<u>MAKE</u>	<u>TYPE</u>
PRIMARY RELAY	WABCO	480 102 08. 0
SECONDARY RELAY	WABCO	480 207 202 0
YARD RELEASE VALVE	SEALCO	17600B
PARK BRAKE VALVE	SEALCO	110701
<u>SUSP. VALVES [WABCO]</u>	<u>FRONT</u>	<u>REAR</u>
CONTROL	441 044 101 0	N/A
HEIGHT SENSOR	464 008 011 0	464 008 011 0

OTHER VALVES:

MAKE:	WABCO	TYPE:	434 014 000 0	SETTING:	CHECK VALVE
MAKE:		TYPE:		SETTING:	
MAKE:		TYPE:		SETTING:	
MAKE:		TYPE:		SETTING:	
MAKE:		TYPE:		SETTING:	

BRAKE CHAMBERS:

	AXLE 1 & 2	AXLE 3 & 4	N/A
MAKE	TSE	TSE	N/A
SIZE	24S-TSE	2430GC-TSE	N/A
MAX STROKE (mm)	67	64	N/A
SLACK LENGTH (mm)	127	127	N/A

DRUM TYPE:

370x180	370x180	N/A
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OR**BRAKE CALIPER:**

N/A	N/A	N/A
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FRICION MATERIAL: OEM AFTERMARKET**LINING BRAND****AXLE 1 & 2****AXLE 3 & 4****N/A**

BK 6386

BK 6386

N/A

OTHERS:**TYRES:****FRONT****REAR**

265 70 R 19.5

265 70 R 19.5

BRAKE CALCULATION #:

TP51742

COMMENTS:

EBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #

SALES ORDER #:

SO1188218

PROCESS TIME:

1 HOUR

TRAILERS EQUIPPED WITH PREV: THE PARK BRAKE PERFORMANCE MUST BE**MEASURED BY PULLING THE RED ACTUATION KNOB ON THE PREV VALVE WHEN****THE AXLES EQUIPPED WITH SPRING BRAKES ARE IN THE BRAKE ROLLERS. THE****PARK BRAKE IN THE CAB MUST NOT BE APPLIED.****NOTES:****CHAMBERS & PARK BRAKE PERFORMANCE:**

BRAKE CALCULATION No:

TP51742

PARK BRAKE $z = .266$ @ 75483N FOR 30000 Kgs GVMFRONT FRICTION @ 6.5 BAR = $.5\mu$

Px VALUE IN TP51742 IS 0.1 BAR LOWER THAN PRACTICAL TESTS SUGGEST. THE ECU FILE HAS BEEN ADJUSTED TO REFLECT THIS.

CONFORMATION OF COMPLIANCE

I CONFIRM THAT THE VEHICLE IDENTIFIED IN PAGES 1 AND 2 OF THIS CONFORMATION OF COMPLIANCE COMPLIES WITH ALL RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/4, SCHEDULE 5.

DATE: 26-Jun-18

SIGNED: (pp)



NAME & ID: J HIRST (JEH)

PHONE (BUS): 09 980 7300

FAX (BUS) 09 980 7306

POSTAL ADDRESS:

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

POSITION: BRAKE CERTIFIER HVEK

I CONFIRM THE BRAKE SYSTEM OF THE VEHICLE IDENTIFIED IN PAGE 1 OF THIS STATEMENT OF COMPLIANCE AS MODIFIED BY MYSELF, CONTINUES TO COMPLY WITH ALL THE RELIVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY BRAKE RULE 32015/4 SCHEDULE 5.

DATE:

SIGNED:

NAME:

CERTIFIERS ID:

POSITION:

PHONE (BUS):

FAX (BUS):

COMMENTS:
