

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) CHRIS CLARKE	ID CJC
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Vehicle registration (optional)	VIN/chassis number 7A9D10016J1023724
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Make DOMETT	<input type="checkbox"/> Chassis <input type="checkbox"/> Load anchorage <input checked="" type="checkbox"/> Brakes <input type="checkbox"/> PSV rollover
Model (optional)	<input type="checkbox"/> Log bolsters <input type="checkbox"/> Towing connection <input type="checkbox"/> PSV stability
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 HEAVY VEHICLE BRAKE RULE 32015/4.
 NEW ZEALAND HEAVY VEHICLE BRAKE SPECIFICATION.**

Code/standard/rule certified to SCHEDULE 5	Component load rating(s) GVM 26,000 Kgs
General drawing number(s) N/A	BRAKES 30,000 Kgs

Supporting documents

BRAKE CODE CERTIFICATE	LC180516
SODC	LC180516

Special conditions (optional)

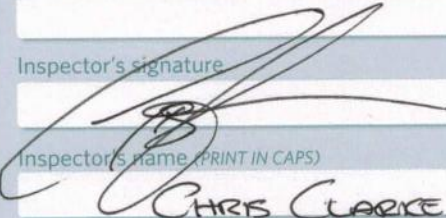
WARNING LAMP MUST ILLUMINATE WHEN IGNITION IS SWITCHED ON & THEN EXTINGUISH IMMEDIATELY OR WHEN VEHICLE SPEED EXCEEDS 7 KPH

Certification expiry date (if applicable) UNTIL MODIFIED or CHANGE OF USE	or	Hubodometer reading (whichever comes first) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
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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
23-Jul-18 **647174**

CoF vehicle inspector ID	CoF vehicle inspector signature	Date
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All fields are mandatory unless otherwise stated.

WABCO

START-UP LOG

System	Trailer EBS-E	WABCO part number	480 102 064 0
Production date	2018-01-10	Serial number	436042384900N
Serial number (modulator)	000000166913		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2018-07-23 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

WABCO

TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
361-005-16

HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT			GIO	Pin1	Pin3	Pin4
TYP TYPE TYPE	4A TANKER, D1001			1	24V-O1	---	---
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9D10016J1023724			2	---	---	---
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP2018ROR			3	ALS2	ALS2	---
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	4	---	---	---
RSS RSS RSS	Einfachbereifung Single Tire Monte simple	Lenkachse Steering axle Essieu vireur	4S/3M	5	DIAG	DIAG	DIAG
	Zwillingsbereifung Twin Tire Monte jumelle	Kippkritisches Fahrzeug Critical Trailer Véhicule critique		6	---	---	---
Subsystems	SB	I/O	24N	7	---	---	---



ACHSE AXLE ESSIEU	pm (bar)		6.5	pm (bar)		0.8	2.0	---	6.5	TYP TYPE	(mm)	(mm)	(bar)		
	+	-	+	-	+	+	+	1.0	Pz						
1	1400	0.4	1.5	7500	4.4	0.4	1.3	---	5.5	-	20	65	76	539	4277
2	1400	0.4	1.5	7500	4.4	0.4	1.3	---	5.5	-	20	65	76	539	4277
3	1200	0.3	1.2	7500	4.4	0.4	1.5	---	4.6	-	16 / 24	64	76	479	3078
4	1200	0.3	1.2	7500	4.4	0.4	1.5	---	4.6	-	16 / 24	64	76	479	3078
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	Vehicle ident. no	7A9D10016J1023724
Vehicle type	4A TANKER, D1001	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke	Signature	
Date	2018-07-23 1:25:40 p.m.		

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

distribution: DOMETT
2018 ROR 4A WPC

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 (V6.14.04.20).
 -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
 trailer model : 4A TANKER, D1001
 trailer type : 4-axle-full-trailer
 remarks : air / hydraulic / VA suspension
 WABCO TRAILER - EBS
 TRISTOP 3+4: T.16/24
 265/70 R 19,5

axle 1 + 2 + 3 + 4 : Assali Stefen, K, 361-005-16,

		<u>unladen</u>	<u>laden</u>
total mass	P in kg	5200	30000
axle 1	P1 in kg	1400	7500
axle 2	P2 in kg	1400	7500
axle 3	P3 in kg	1200	7500
axle 4	P4 in kg	1200	7500
wheel base	E in mm	5070 - 5070	
centre of gravity height	h in mm	900	1538

	<u>axle 1</u>	<u>axle 2</u>	<u>axle 3</u>	<u>axle 4</u>
no. of combined axles	manually 1	manually 1	manually 1	manually 1
no. of brake chambers per axle line	2	2	2	2
The power output corresponds to	BZ 122.1	BZ 122.1	BZ 119.6	BZ 119.6
brake chamber manufacturer	Meritor	Meritor	Meritor	Meritor
chamber size	20.	20.	T.16/24	T.16/24
lever length	lBh in mm 76	76	76	76
brake factor	[-] 22.37	22.37	22.37	22.37
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 6.0	6.0	6.0	6.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.1	2.1	2.1	2.1
chamber pressure(rdyn max)pH at z=22,5%bar	2.1	2.1	2.1	2.1
chamber press.(servo)pcha at pm6,5bar bar	5.5	5.5	4.6	4.6
piston force ThA at pm6,5bar N	6332	6332	4555	4555
brake force(rdyn min)T lad. at pm6,5bar N	51239	51239	36884	36884
brake force(rdyn max)T lad. at pm6,5bar N	51239	51239	36884	36884
brake force within 1 % rolling friction proportion %	26.7	26.7	23.3	23.3

braking rate z laden 0.599 for rdyn min
 z = sum (TR)/PRmax 0.599 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: Meritor 20HSCLD65

axle 2:

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

brake cylinder: Meritor 20HSCLD65

axle 3:

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

brake cylinder: Meritor 1624HTLD64

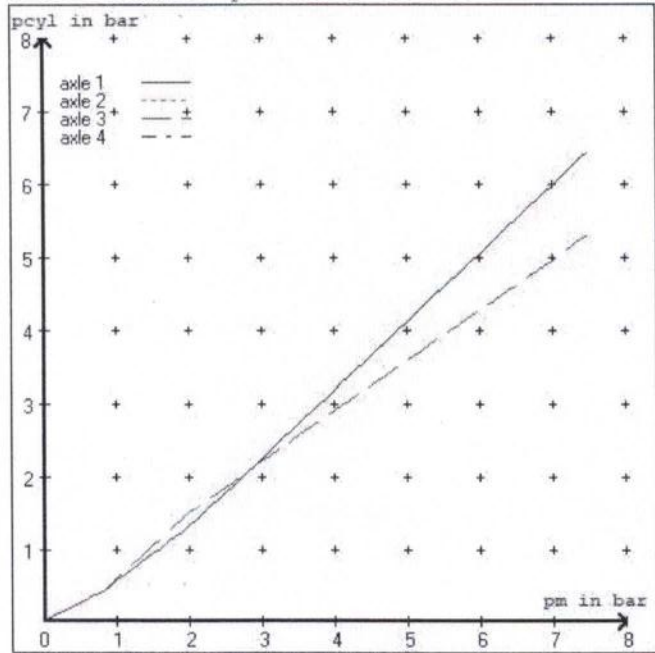
axle 4:

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

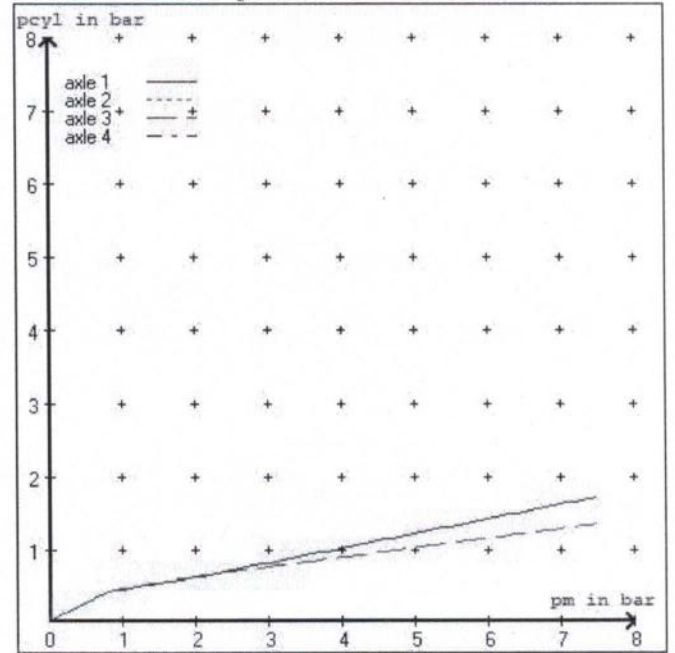
brake cylinder: Meritor 1624HTLD64

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4
at pm 3.6 bar =>	pcha in bar :	2.8	2.8	2.6	2.6
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	0.9	0.9

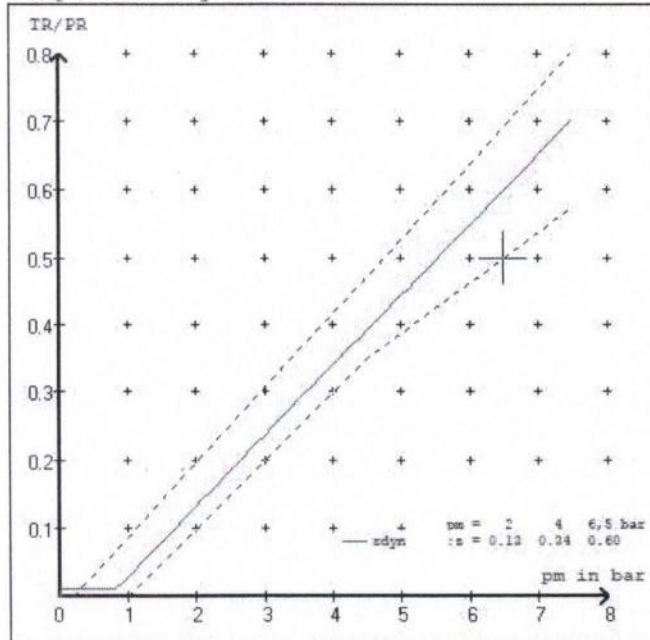
brake chamber pressure laden



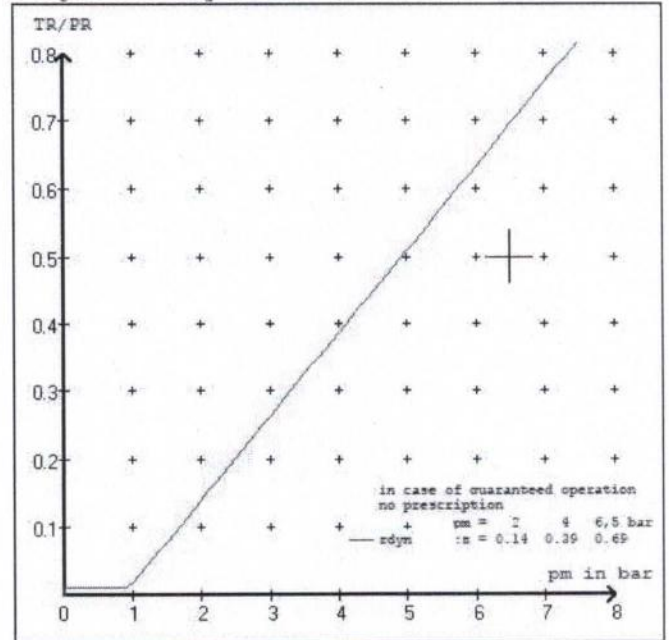
brake chamber pressure unladen



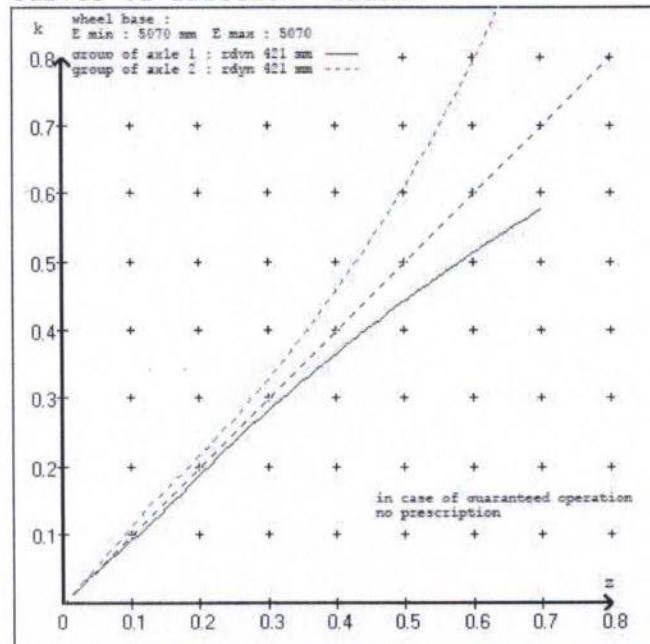
compatibility band laden



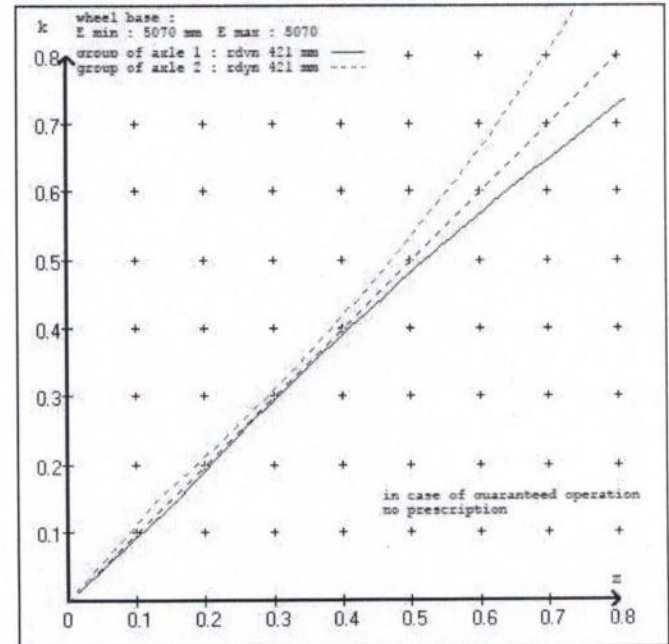
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT
 trailer model : 4A TANKER, D1001
 trailer type : 4-axle-full-trailer

brake chamber and lever length :
 axle 1 : 2 x type/diameter 20. (Meritor) lever length 76 mm
 axle 2 : 2 x type/diameter 20. (Meritor) lever length 76 mm
 axle 3 : 2 x type/diameter T.16/24 (Meritor) lever length 76 mm
 axle 4 : 2 x type/diameter T.16/24 (Meritor) lever length 76 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

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vehicle manufacturer: DOMETT
 trailer model : 4A TANKER, D1001
 trailer type : 4-axle-full-trailer
 brake calculation no. : TP 2018A

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	1400	to be	1.5	7500	to be	0.4	1.3	5.5
2	1400	entered by	1.5	7500	entered by	0.4	1.3	5.5
3	1200	the vehicle	1.2	7500	the vehicle	0.4	1.5	4.6
4	1200	manufact.	1.2	7500	manufact.	0.4	1.5	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 pcy1	axle load pcy1	axle load pcy1	axle load pcy1
1400	1.5	1400	1.5
1900	1.8	1900	1.8
2400	2.2	2400	2.2
2900	2.5	2900	2.5
3400	2.8	3400	2.8
3900	3.1	3900	3.1
4400	3.5	4400	3.5
4900	3.8	4900	3.8
7500	5.5	7500	5.5

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

axle 1 : reference axle: Assali StefLM or LC or TMen	brake lining: FER 5200-215
test report : 361-005-16	date : 09-02-2016
axle 2 : reference axle: Assali StefLM or LC or TMen	brake lining: FER 5200-215
test report : 361-005-16	date : 09-02-2016
axle 3 : reference axle: Assali StefLM or LC or TMen	brake lining: FER 5200-215
test report : 361-005-16	date : 09-02-2016
axle 4 : reference axle: Assali StefLM or LC or TMen	brake lining: FER 5200-215
test report : 361-005-16	date : 09-02-2016

calc. verific. 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 = 58 mm)	s = 37 mm
axle 2	(sp = 58 mm)	s = 37 mm
axle 3	(sp = 57 mm)	s = 37 mm
axle 4	(sp = 57 mm)	s = 37 mm

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

axle1	ThA = 6332 N
axle2	ThA = 6332 N
axle3	ThA = 4555 N
axle4	ThA = 4555 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 = 49452 N
axle 2	(rdyn 421 mm)	T = 49452 N
axle 3	(rdyn 421 mm)	T = 35608 N
axle 4	(rdyn 421 mm)	T = 35608 N

	basic test	type III
	of subject	(calculated)
	trailer (E)	residual
braking rate of the vehicle		(hot)braking
(item 4.3.2 to appendix 2 to annex 11)	0.60	0.58

required braking rate	>= 0,4 and
(items 1.5.3 and 1.7.2 to annex 11)	>= 0,6*E (0.36)

axle 1	(rdyn 421 mm)	T = 49452 N
axle 2	(rdyn 421 mm)	T = 49452 N
axle 3	(rdyn 421 mm)	T = 35608 N
axle 4	(rdyn 421 mm)	T = 35608 N

	basic test	type III
	of subject	(calculated)
	trailer (E)	residual
braking rate of the vehicle		(hot)braking
(item 4.3.2 to appendix 2 to annex 11)	0.60	0.58

required braking rate	>= 0,4 and
(items 1.5.3 and 1.7.2 to annex 11)	>= 0,6*E (0.36)

axle manufacturer	axle 1 + 2 + 3 + 4
type of brake	Assali Stefan
type of axle	K
	LM or LC or TM
	361-005-16

test report of characteristic value

adm. stat. axle load	Pstat in kg	11000
tested axle load	Pe in kg	10200
max. adm. tyre radius	Rezul in mm	999
adm. cam. torque (6,5 bar)	Czul in Nm	940
lining area per brake	AB in cm ²	304
no. of brake cylinder	-	2
brakefactor (SB) Bf	-	22.37
brakefactor (PB) Bf	-	22.37
threshold torque (Co,dec)	Mo in Nm	6

date	09-02-2016	
brake lining	FER 5200-215	
cam torque	Ce in Nm	638
brake force	TeIII in daN	5366
stroke	seIII in mm	37
tested tyre radius	Re in mm	518
tested lever length	le in mm	76
threshold torque (Co,e)	in Nm	6

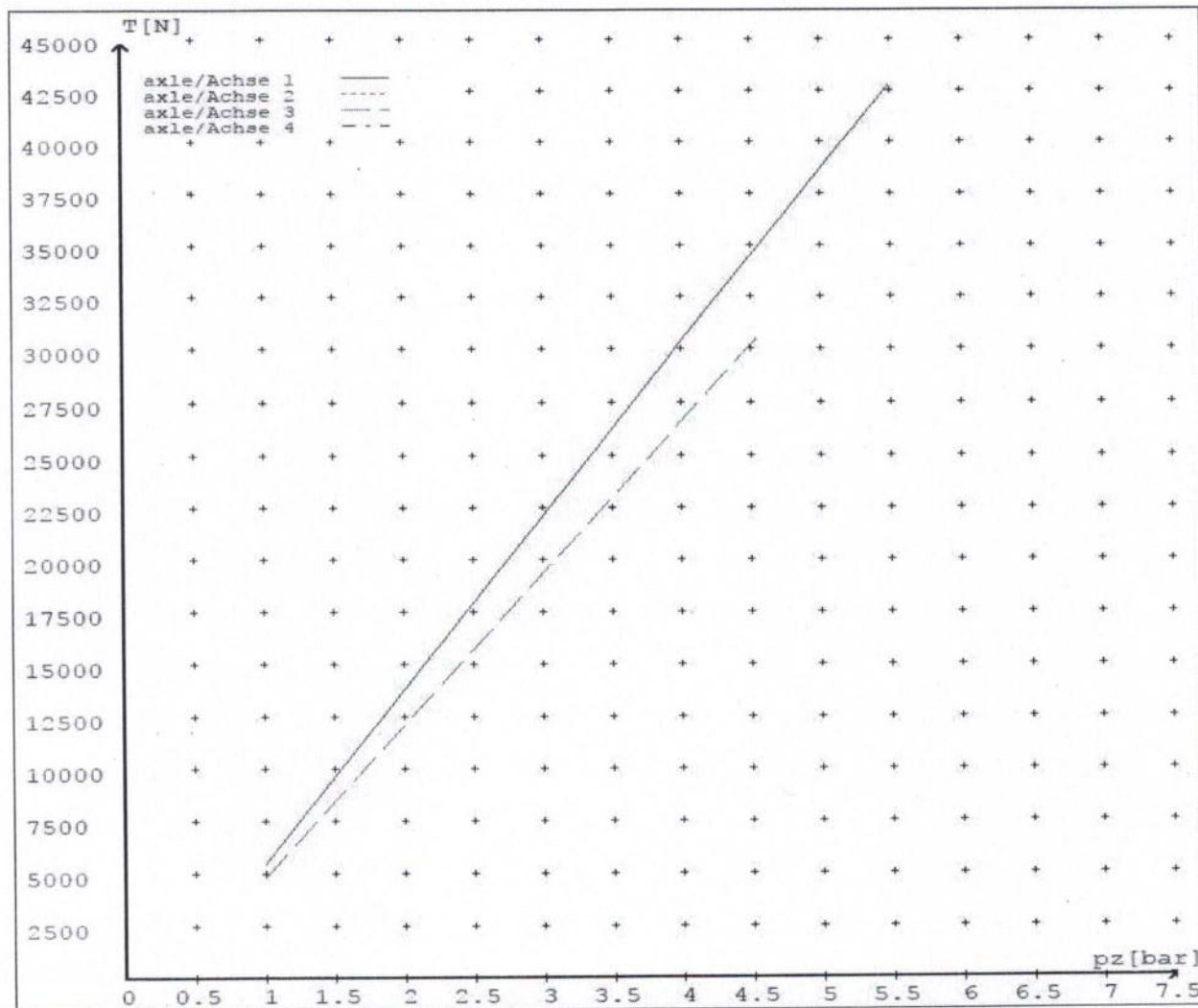
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0	5394	
	5.5	42770	
axle 2	1.0	5394	
	5.5	42770	
axle 3	1.0		4794
	4.6		30788
axle 4	1.0		4794
	4.6		30788

VIN - no.:

	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	20./	20./	T.16/24	T.16/24	/
Maximum stroke smax = ...mm maximaler Hub smax =mm	65	65	64	64	
Lever length =mm Hebellänge =mm	76	76	76	76	



reference values for $z = 0.5$

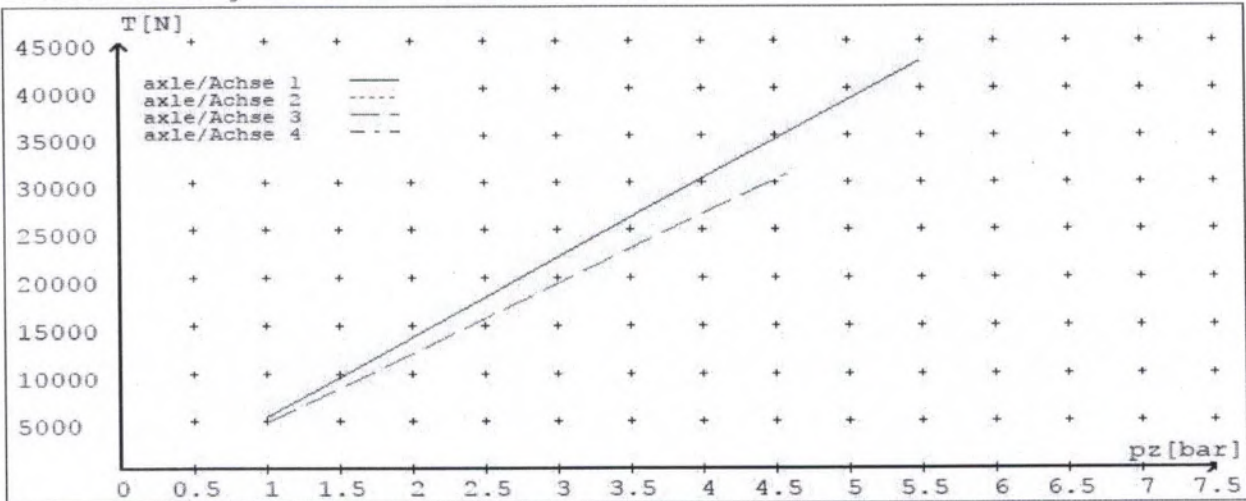
for max r_{dyn}: 421 mm

Angabe der Referenzwerte für $z = 0.5$

für max r_{dyn}: 421 mm

brake calculation no: TP 2018A date 20.03.2018

Bremsberechnung Nr: TP 2018A vom 20.03.2018



	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	20./	20./	T.16/24	T.16/24	/
Maximum stroke s _{max} = ...mm maximaler Hub s _{max} = ...mm	65	65	64	64	
Lever length = ...mm Hebellänge = ...mm	76	76	76	76	

GOUGH**Transpecs**

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

CERTIFICATE NO:

LC180516

CUSTOMER NAME:

DOMETT TRAILERS

CUSTOMER ORDER NO:

5315

DATE RECEIVED:

16/03/2018

VEHICLE TYPE:

FULL TANKER

VIN / CHASSIS NO:

7A9D10016J1023724

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

BRAKE VALVES:

MAKE

TYPE

PRIMARY RELAY:

WABCO

480 102 064 0

SECONDARY RELAY:

WABCO

480 207 001 0

SPRING BRAKE RELAY:

SEALCO

110701

PARK BRAKE VALVE:

SEALCO

17600B

LOCKED RATIO:

MAKE:

SETTING:

OTHER VALVES

OTHER VALVES

MAKE:

TYPE

SETTING

MAKE:

TYPE

SETTING

MAKE:

TYPE

SETTING

MAKE:

TYPE

SETTING

BRAKE CHAMBERS

	FRONT	REAR	5TH
MAKE:	HALDEX	BERTOCCO	0
SIZE:	20, 125-200-001	1624	0
STROKE: MM	62mm	57mm	0
SLACK LENGTH: MM	DISC, 76mm	DISC, 76mm	0

BRAKE CALIPERS

BRAKE CALIPERS: HALDEX

FRICTION MATERIAL: OEM Aftermarket**LINING BRAND****LINING BRAND****FRONT****REAR**

MAT 5200-215

MAT 5200-215

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

265/70R 19.5

265/70R 19.5

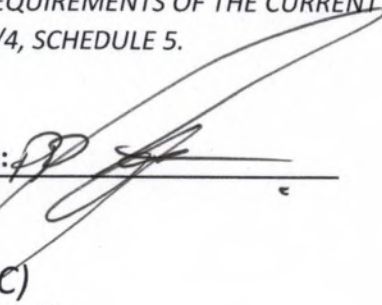
COMMENTSEBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #0

NOTES:

PACKING SLIP NO. _____ PROCESS TIME _____

CONFIRMATION OF COMPLIANCE

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

DATE: 23/07/2018 **SIGNED:** 

NAME & ID: LANCE CAWTE (LPC)

PHONE (BUS): 09 980 7300 **FAX (BUS):** 03 3083277

POSTAL ADDRESS: TRANSPORT SPECIALTIES LTD
PO BOX 98-971,
MANUKAU CITY,
AUCKLAND 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 RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY BRAKE RULE 32015/4 SCHEDULE 5.

DATE: _____ **SIGNED:** _____

NAME: _____

CERTIFIERS ID: _____ **POSITION:** _____

PHONE (BUS): _____ **FAX (BUS):** _____

COMMENTS: _____

