

# 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**

Vehicle registration (optional) \_\_\_\_\_ VIN/chassis number **7A9D10015J1023732**

Make **DOMETT** Component being certified:  Chassis  Load anchorage

Model (optional) \_\_\_\_\_  Log bolsters  Towing connection  Brakes

Certification category **HVEK**  SRT  PSV stability  PSV rollover

Swept path  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 LC180808**

**SODC LC180808**

Special conditions (optional)

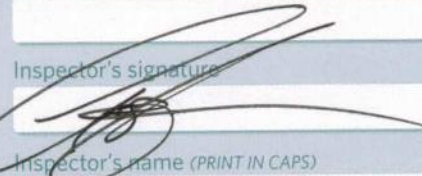
**WARNING LAMP MUST ILLUMINATE WHEN IGNITION IS SWITCHED ON & THEN EXTINGUISH IMMEDIATELY OR WHEN VEHICLE SPEED EXCEEDS 7 KPH**

Certification expiry date (if applicable) **UNTIL MODIFIED or CHANGE OF USE** or Hubodometer reading (whichever comes first)

**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) **CHRIS CLARKE** ID number **CJC**

Date **17-Aug-18** Number **647233**

CoF vehicle inspector ID \_\_\_\_\_ CoF vehicle inspector signature \_\_\_\_\_ Date \_\_\_\_\_

All fields are mandatory unless otherwise stated.







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,

		unladen	laden
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

		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 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

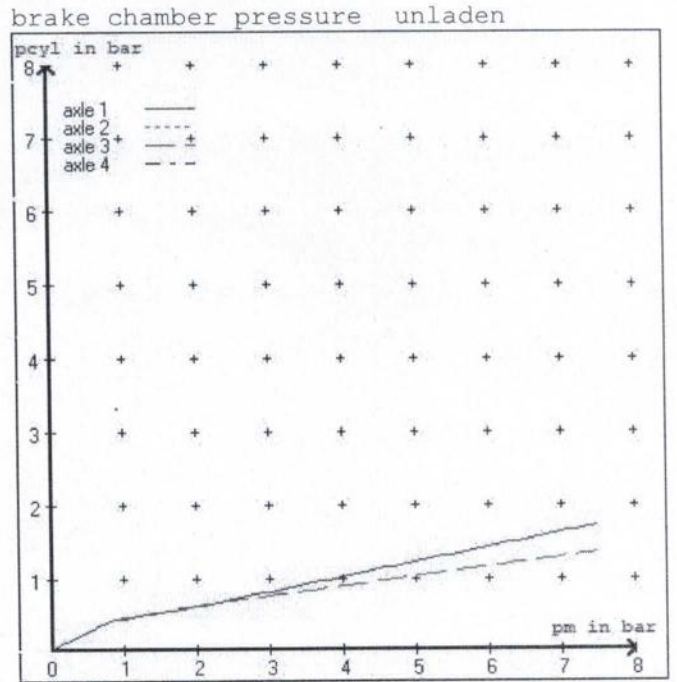
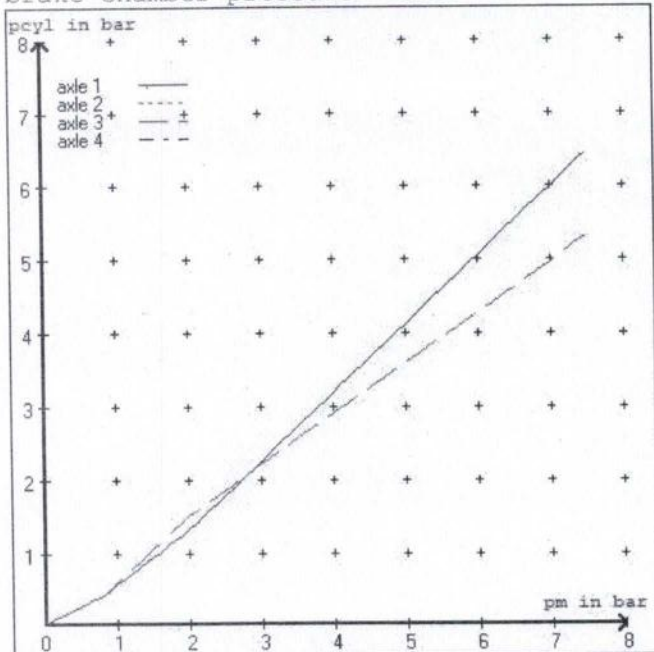
axle 4:

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

brake cylinder: Meritor 1624HTLD64

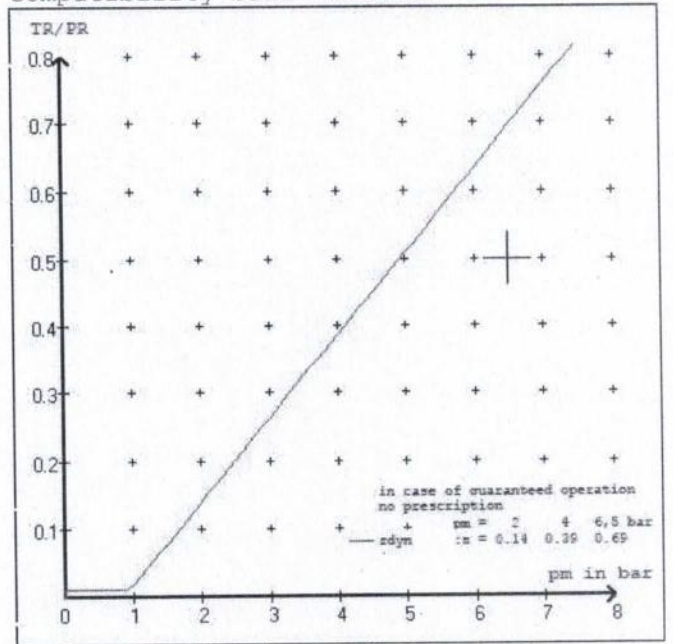
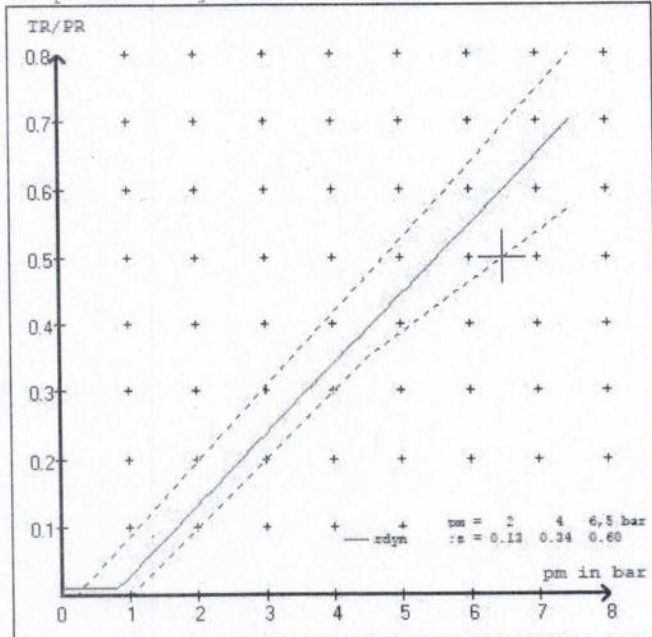
test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4
at pm 3.6 bar =>	pcha in bar :	2.8	2.8	2.6	2.6
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4
at pm 1.3 bar =>	pcha in bar :	0.8	0.8	0.9	0.9





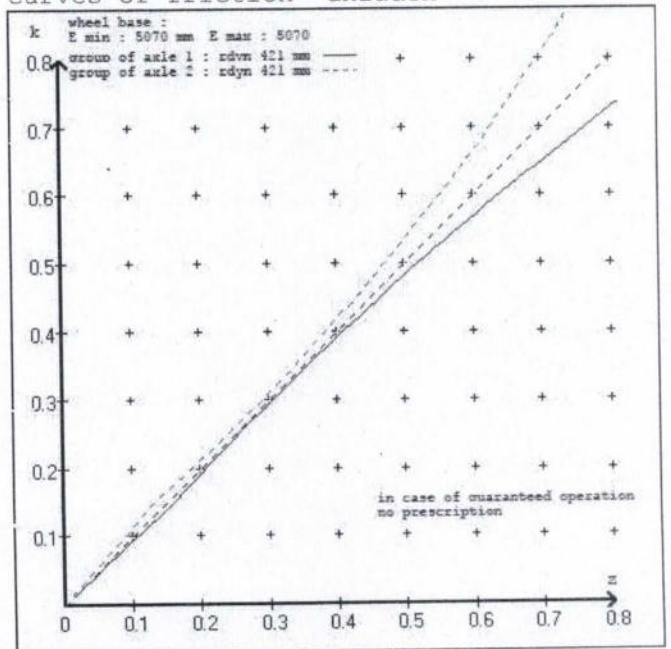
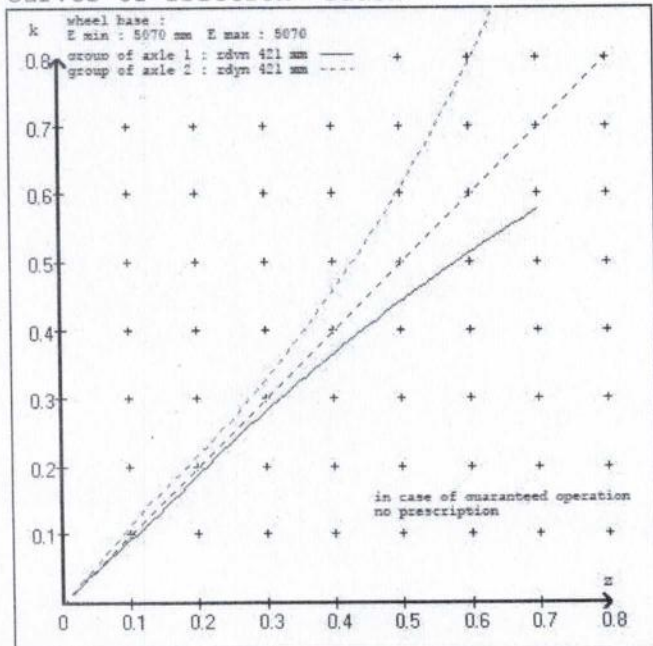
compatibility band laden

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 the vehicle manufact.	1.5	7500	entered by the vehicle manufact.	0.4	1.3	5.5	
3	1200		1.2	7500		0.4	1.5	4.6	
4	1200		1.2	7500		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. 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 = 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  
(hot)braking

braking rate of the vehicle  
(item 4.3.2 to appendix 2 to annex 11) 0.60 . 0.58

required braking rate  
(items 1.5.3 and 1.7.2 to annex 11)  $\geq 0,4$  and  $\geq 0,6 * E (0.36)$

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  
(hot)braking

braking rate of the vehicle  
(item 4.3.2 to appendix 2 to annex 11) 0.60 0.58

required braking rate  
(items 1.5.3 and 1.7.2 to annex 11)  $\geq 0,4$  and  $\geq 0,6 * E (0.36)$





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 <sup>2</sup> 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



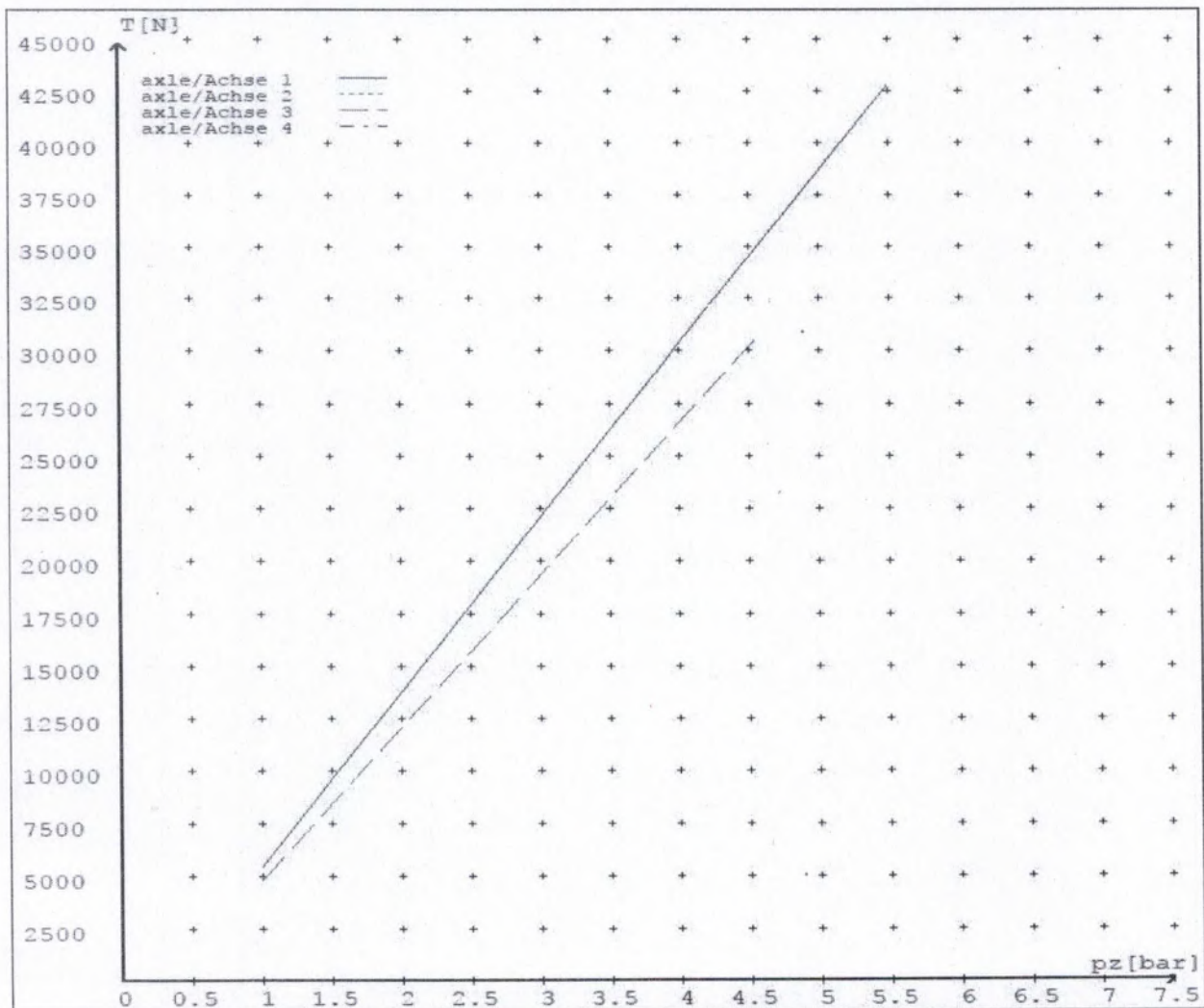
**reference values**

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  $z = 0.5$

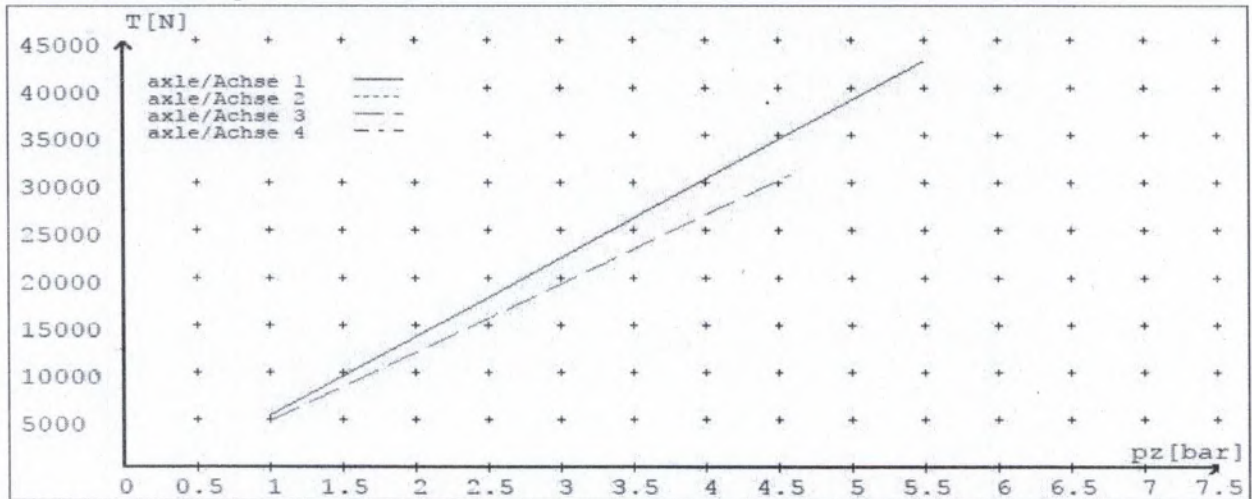
for max rdyn: 421 mm

Angabe der Referenzwerte für  $z = 0.5$

für max rdyn: 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 $s_{max} = \dots$ mm maximaler Hub $s_{max} = \dots$ mm	65	65	64	64	
Lever length = $\dots$ mm Hebellänge = $\dots$ mm	76	76	76	76	



**GOUGH***Transpecs*

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

CERTIFICATE NO:	<input type="text" value="LC180808"/>		
CUSTOMER NAME:	<input type="text" value="DOMETT TRAILERS"/>		
CUSTOMER ORDER NO:	<input type="text" value="5323"/>	DATE RECEIVED:	<input type="text" value="16/03/2018"/>
VEHICLE TYPE:	<input type="text" value="FULL TANKER"/>		
VIN / CHASSIS NO:	<input type="text" value="7A9D10015J1023732"/>		

**BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5**

BRAKE VALVES:	MAKE	TYPE
PRIMARY RELAY:	WABCO	<input type="text" value="480 102 064 0"/>
SECONDARY RELAY:	WABCO	<input type="text" value="480 207 001 0"/>
SPRING BRAKE RELAY:	SEALCO	<input type="text" value="110701"/>
PARK BRAKE VALVE:	SEALCO	<input type="text" value="17600B"/>
LOCKED RATIO:	<input type="text"/>	
MAKE:	<input type="text"/>	
SETTING:	<input type="text"/>	

**OTHER VALVES**

OTHER VALVES

MAKE:	<input type="text"/>	TYPE	<input type="text"/>	SETTING	<input type="text"/>
MAKE:	<input type="text"/>	TYPE	<input type="text"/>	SETTING	<input type="text"/>
MAKE:	<input type="text"/>	TYPE	<input type="text"/>	SETTING	<input type="text"/>
MAKE:	<input type="text"/>	TYPE	<input type="text"/>	SETTING	<input type="text"/>

**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

FRICITION 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

**COMMENTS**

EBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #

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NOTES:

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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:** 17/08/2018      **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:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_