

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

Plate number (optional)	VIN/chassis number
	<b>7A9C20039S2023531</b>

Make	Component being certified:	Chassis	Load anchorage
<b>DOMETT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Model (optional)	Log bolsters	Towing connection	<input checked="" type="checkbox"/> Brakes
<b>C2003 PH</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Certification category	SRT	PSV stability	PSV rollover
<b>HVEK</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Swept path	PBS	
	<input type="checkbox"/>	<input type="checkbox"/>	

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015: NZ HEAVY VEHICLE BRAKE SPECIFICATION.

CARRY OUT BRAKE CALCULATIONS, INSPECTION AND ECU END OF LINE PROTOCOL.

3ASBTF CURTAINSIDE **RSS ON TYRE: 265 70 R19.5**

FOR SYSTEM ARCHITECTURE, PLEASE REFER TO PDS WORKSHEET & SCHEMATIC.

**REASON FOR CERTIFICATION:** NEW TRAILER BUILD

Code/standard/rule certified to	Component load rating(s)
LTR 32015	33 Tonnes GVM
General drawing number(s)	19 Tonnes (Rear group rating)
N/A	

Supporting documents

BRAKE RULE CERTIFICATE JH250922

BRAKE CALCULATION # TP53067

Special conditions (optional)

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

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

**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

**28-Oct-25** **A 94349**

CoF vehicle inspector ID (if applicable)	CoF vehicle inspector signature (if applicable)	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 TRAILERS  
 7A9C20039S2023531  
 SoDC: JH250922  
 LT400: CJC A94349

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 (V6.18.07.12).  
 -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 V6.18.07.12 db 13.10.2020

vehicle manufacturer: DOMETT TRAILERS  
 trailer model : 3ASBTF CURTAINSIDE  
 trailer type : 3-axle-semi-trailer  
 remarks : air / hydraulic / VA suspension  
 kc min + max < 0,95 =>  
 compatibility band laden does not have to be fulfilled.  
 WABCO TRAILER - EBS E  
 TRISTOP 1+2: T.14/24 [TSE1416HTLD ACTUALLY FITTED -SEE PAGE 6 FOR PERFORMANCE DATA]  
 265/70 R 19,5

axle 1 + 2 + 3 : SAF, SBW 1937, TDB 0749 ECE,

		unladen		laden	
total mass	P in kg	5000	- 6000	33000	- 35000
king-pin	PS kg	1250	- 2250	13950	- 15950
axle 1	P1 in kg		1250		6350
axle 2	P2 in kg		1250		6350
axle 3	P3 in kg		1250		6350
total axle mass	PR in kg		3750		19050
wheel base	E in mm	6200	- 6300		
centre of gravity height	h in mm		910		2150
K-factor		Kv min	1.9895	Kc min	0.9249
K-factor		Kv max	2.0103	Kc max	0.9468

	axle 1	axle 2	axle 3
no. of combined axles	1	1	1
no. of brake chambers per axle line KDZ	2	2	2
The power output corresponds to	BZ 119.6	BZ 119.6	BZ 122.1
brake chamber manufacturer	Meritor	Meritor	Meritor
chamber size	T.14/24	T.14/24	14.
lever length lBh in mm	69	69	69
brake factor [-]	23.03	23.03	23.03
dyn. rolling radius rdyn min in mm	421	421	421
dyn. rolling radius rdyn max in mm	421	421	421
threshold torque Co Nm	6.0	6.0	6.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.1	2.1	2.1
chamber pressure(rdyn max)pH at z=22,5%bar	2.1	2.1	2.1
chamber press.(servo)pcha at pm6,5bar bar	5.2	5.2	5.2
piston force ThA at pm6,5bar N	4986	4986	4986
brake force(rdyn min)T lad. at pm6,5bar N	37653	37653	37653
brake force(rdyn max)T lad. at pm6,5bar N	37653	37653	37653
Brake force incl. 1 % rolling resistance proportion %	33.3	33.3	33.3

braking rate z laden 0.604 for rdyn min  
 z = sum (TR)/PRmax 0.604 for rdyn max

Trailer may only be operated in combination with trucks/tractors with ISO 7638 supply (5 or 7 polar).

brake diagram : 841 701 101 0

maximum pressure: 8.5 bar

axle 1:

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

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

brake cylinder: Meritor 1424HTLD64

axle 2:

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

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

brake cylinder: Meritor 1424HTLD64

axle 3:

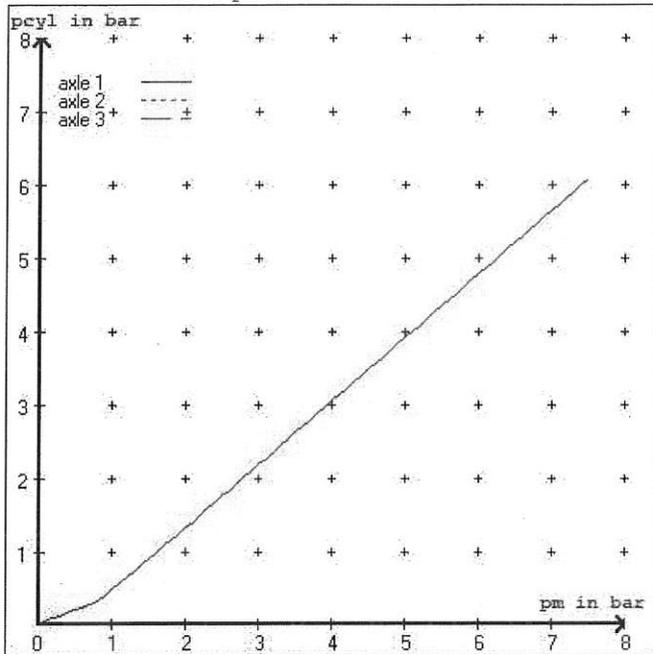
valve 1: 971 002 ... 0 WABCO  
EBS emergency valve

valve 2: 480 102 ... 0 ( ) WABCO or 480 207 0.. 0 / 2.. 0  
EBS trailer modulator

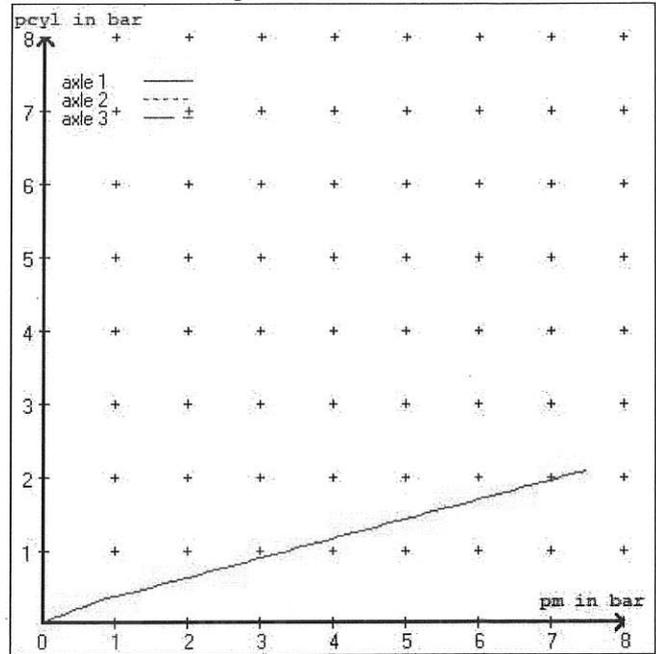
brake cylinder: Meritor 14HSCLD64

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3
at pm 3.6 bar =>	pcha in bar :	2.7	2.7	2.7
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3
at pm 1.3 bar =>	pcha in bar :	0.7	0.7	0.7

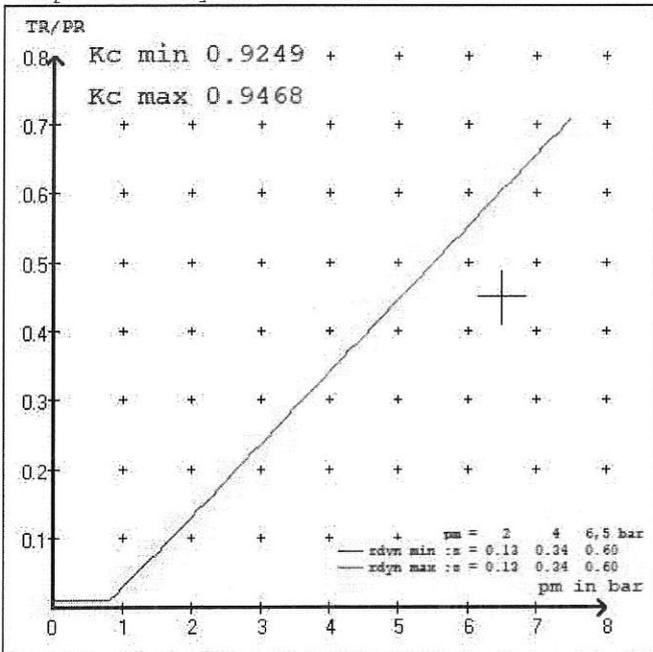
brake chamber pressure laden



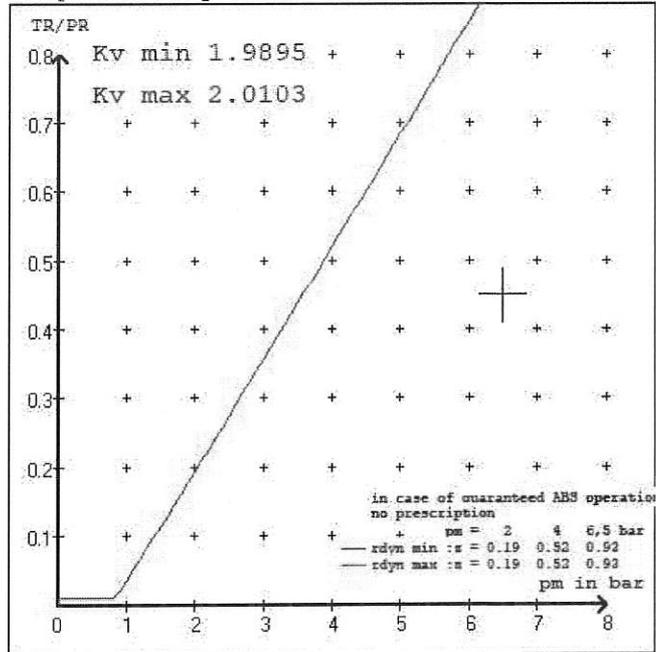
brake chamber pressure unladen



compatibility band laden



compatibility band unladen



vehicle manufacturer: DOMETT TRAILERS  
 trailer model : 3ASBTF CURTAINSIDE  
 trailer type : 3-axle-semi-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter T.14/24 (Meritor) lever length 69 mm  
 axle 2 : 2 x type/diameter T.14/24 (Meritor) lever length 69 mm  
 axle 3 : 2 x type/diameter 14. (Meritor) lever length 69 mm

brake diagram : 841 701 101 0

valve :

971 002 ... 0 WABCO EBS emergency valve  
 480 102 ... 0 WABCO EBS trailer modulator  
 480 102 ... 0 WABCO EBS trailer modulator or 480 207 0.. 0 / 2.. 0

EBS input data

=====

vehicle manufacturer: DOMETT TRAILERS  
 trailer model : 3ASBTF CURTAINSIDE  
 trailer type : 3-axle-semi-trailer  
 brake calculation no. : TP 53067S

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	1250	to be	1.8	6350	to be	0.3	1.3	5.2	
2	1250	entered by	1.8	6350	entered by	0.3	1.3	5.2	
3	1250	the vehicle	1.8	6350	the vehicle	0.3	1.3	5.2	
4	0	manufact.	0,0	0	manufact.	0,0	0,0	0,0	
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 load pcyl	axle load pcyl	axle load pcyl
1250	1.8	1250 1.8
1750	2.1	1750 2.1
2250	2.5	2250 2.5
2750	2.8	2750 2.8
3250	3.1	3250 3.1
3750	3.5	3750 3.5
4250	3.8	4250 3.8
4750	4.1	4750 4.1
6350	5.2	6350 5.2

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

axle 1 : reference axle: SAF	SBW 1937	brake lining: Jurid 539
test report :	TDB 0749 ECE	date : 20130930 30.09.2013
axle 2 : reference axle: SAF	SBW 1937	brake lining: Jurid 539
test report :	TDB 0749 ECE	date : 20130930 30.09.2013
axle 3 : reference axle: SAF	SBW 1937	brake lining: Jurid 539
test report :	TDB 0749 ECE	date : 20130930 30.09.2013

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 = 18.7 % Fe
axle 2	(rdyn 421 mm)	T = 18.7 % Fe
axle 3	(rdyn 421 mm)	T = 18.7 % Fe

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

axle 1	(sp = 56 mm)	s = 39 mm
axle 2	(sp = 56 mm)	s = 39 mm
axle 3	(sp = 56 mm)	s = 39 mm

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

axle1	ThA = 4986 N
axle2	ThA = 4986 N
axle3	ThA = 4986 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 = 29448 N
axle 2	(rdyn 421 mm)	T = 29448 N
axle 3	(rdyn 421 mm)	T = 29448 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	0.47

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 = 29448 N
axle 2	(rdyn 421 mm)	T = 29448 N
axle 3	(rdyn 421 mm)	T = 29448 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	0.47

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



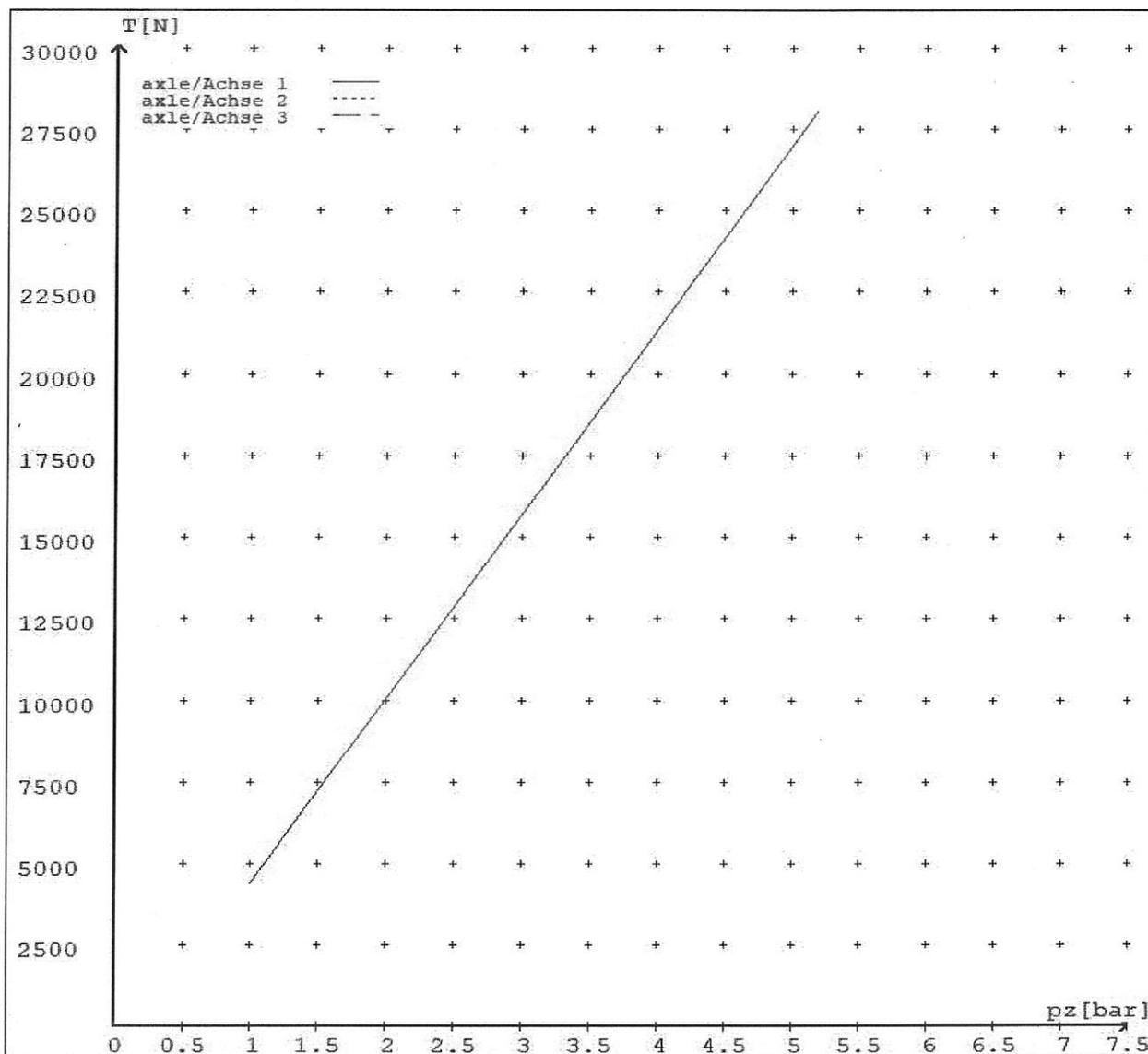
**reference values**

reference values for z = 45% for max rdyn: 421 mm

	pz [bar]	T [N]	T [N]
axle 1	1.0		4356
	5.2		28052
axle 2	1.0		4356
	5.2		28052
axle 3	1.0		4356
	5.2		28052

VIN - no.:

	Axle(s) / Achse(n)				
	brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	T.14/24	T.14/24	14./	/
Maximum stroke smax = ...mm maximaler Hub smax = ....mm	64	64	64		
Lever length = ....mm Hebellänge = ....mm	69.08	69.08	69.08		



reference values for  $z = 0.45$

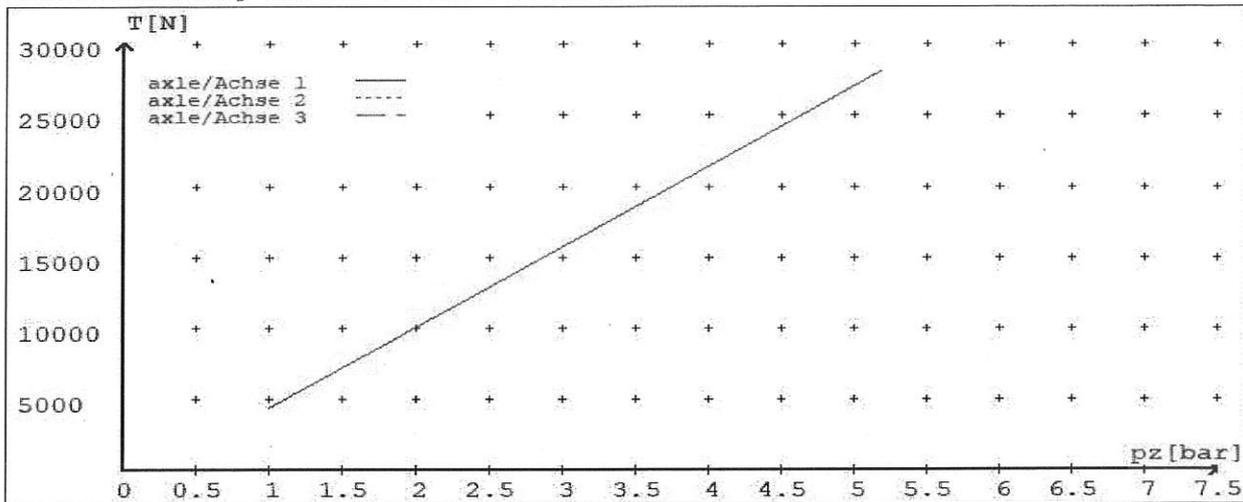
for max rdyn: 421 mm

Angabe der Referenzwerte für  $z = 0.45$

für max rdyn: 421 mm

brake calculation no: TP 53067S date 26.09.2025

Bremsberechnung Nr: TP 53067S vom 26.09.2025



	Axle (s) / Achse (n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	T.14/24	T.14/24	14./	/	/
Maximum stroke $s_{max} = \dots mm$ maximaler Hub $s_{max} = \dots mm$	64	64	64		
Lever length = $\dots mm$ Hebellänge = $\dots mm$	69.08	69.08	69.08		



**NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015  
WORKSHEET, PROCEDURE DOCUMENTATION SHEET  
& CONFIRMATION OF COMPLIANCE**

**CLIENT**

<b>MANUFACTURER:</b>	DOMETT TRAILERS
<b>ADDRESS:</b>	TAURIKURA DRIVE, TAURANGA 3110
<b>FLEET:</b>	HILTON HAULAGE

**VEHICLE DETAILS**

<b>VEHICLE TYPE:</b>	3ASBTF CURTAINSIDE	<b>CERT #:</b>	JH250922
<b>YEAR:</b>	2025	<b>CALCULATION #:</b>	TP53067
<b>MAKE:</b>	DOMETT	<b>REGO #:</b>	N/A
<b>MODEL:</b>	C2003 PH	<b>LT400 #:</b>	A94349
<b>CHASSIS #:</b>	2531	<b>ORDER #:</b>	10850
<b>VIN #:</b>	7A9C20039S2023531		
<b>GVM: t</b>	33	<b>PRIME MOVER:</b>	EBS / EUROPEAN
<b>LOAD CONFIGURATION:</b>	MIXED FREIGHT		
<b>GROUP RATINGS: t</b>	<b>FRONT</b>	<b>REAR</b>	
	14	19	
<b>WHEEL BASE: m</b>	6.24		
	<b>UNLADEN COG m</b>	<b>MAX HEIGHT m</b>	<b>HEIGHT DECK m</b>
	0.91	4.3	1.238
<b>COG: m</b>	2.148		
	<b>FRONT</b>	<b>REAR</b>	<b>TOTAL</b>
<b>TARE: t</b>	1.61	3.85	5.46
<b>TYRE SIZE:</b>		<b>REAR</b>	
		265 70 R19.5	
<b>ROLLING CIRCUMFERENCE: mm</b>		2645	
<b>AXLE SPACING: m</b>		3	

## BRAKE & AXLE DETAILS

	MAKE	MODEL	TEST REPORT
AXLE:	SAF	SAF-ZI9W	TDB0749
STEER AXLE[S]:	NO	POLE WHEEL:	90
LINING MATERIAL:	JURID 539	BRAKE FACTOR:	23.03
SENSED AXLES:	#2	NOTES:	
SERIAL NUMBERS:	1	N/A	NG-IU25-ZI9
	2	N/A	NG-IU25-ZI9
	3	N/A	NG-IU25-ZI9
	4	N/A	N/A

## CHAMBER AND VALVING DETAILS

CHAMBERS:	AXLE 1 & 2	AXLE 3	
BRAND:	TSE_CHAMBERS	TSE_CHAMBERS	
SIZE:	1416HTLD	14HSCLD	
STROKE: <i>mm</i>	64	64	
TEST REPORT #:	BC0143.0	BZ 122.1 Sep '00	
SPRINGBRAKE FORCE: <i>kN</i>	6.16	N/A	
HOLDOFF PRESSURE: <i>Bar</i>	4.8	N/A	
FOUNDATION BRAKE:	WABCO PAN19	WABCO PAN19	
LEVER LENGTH: <i>mm</i>	69	69	
BRAKE VALVES:	MAKE:	PART NUMBER:	PM PRESS. <i>kPa</i>
ECU PART #:	WABCO	480 102 08. 0 (MV)	80 kPa
3RD MODULATOR #:	N/A	N/A	N/A
ANTI-COMPOUNDING:	YES		
SPRING BRAKE RELAY:	WABCO_PREV	971 002 900 0	
YARD RELEASE VALVE:	WABCO-PREV	971 002 900 0	
INLINE RELAY FITTED:	N/A	N/A	
ECU DIRECTION:	<input checked="" type="checkbox"/> FRONT	<input type="checkbox"/> REAR	
SUBSYSTEMS:	<input type="checkbox"/> SMARTBOARD	<input type="checkbox"/> OPTI-LINK	<input checked="" type="checkbox"/> CAN R/R 446 122 050/051 0
	<input type="checkbox"/> ELEX 446 122 070 0	<input type="checkbox"/> TAILGUARD	

## SUSPENSION

	REAR
SUSPENSION TYPE:	PNEUMATIC
MAKE:	SAF_AIRSPRING
MODEL:	SAF_INTRA
BELLOW SIZE:	2619, 300mm
HEIGHT CONTROL VALVE:	HALDEX 90554950
OTHER VALVES:	N/A
RIDE HEIGHT <i>mm</i> :	230
HANGER HEIGHT <i>mm</i> :	200
PEDESTAL HEIGHT <i>mm</i> :	5
LIFTAXLE:	N/A
DUMP SWITCH:	N/A
LIFTAXLE VALVE:	N/A

## AIR TANKS

AIR TANKS STANDARD:	SAE J10A / EN286-2
	REAR
BRAKE TANK SIZE: L	46 + 25
AUXILLARY TANK SIZE: L	46
PRESSURE PROTECTION:	WABCO PEM: 461 513 002 0

## AIR LINES

TEST POINTS:	
CONTROL LINE:	X 1
FIXED AXLE CHAMBERS:	X 2
STEER AXLE CHAMBERS:	N/A
DUOMATIC COLOUR CODED:	YES
TANK:	X 1

**RULES / STANDARD COMPLIANCE REFERENCE: LTR32015**

SCHEDULE 5

ADR 35

ECE R 13

FMVSS 121

**CHECKS AT COMMISSION OF VEHICLE**

CHAMBER BUNGS REMOVED:

VALVE MOUNTING:

ECU BLANKING PLUGS CHECKED:

DUOMATIC DRILLED:

RESPONSE TIME:

MODULATOR 2.1

MODULATOR 2.2

RELAY VALVE

ms:

**NOTES, SKETCHES AND SPECIAL CONDITIONS**

FILES RECEIVED: 22.08.2025

FILES CREATED: 22.09.2025

REQUEST A COPY OF THE TARE WEIGHT DOCKET

INSPECTION & SIGN-OFF SCHEDULED: 07.11.2023

FILES RETURNED AS COMPLETE:

REASON FOR CERTIFICATION: NEW TRAILER BUILD

I UNDERSTAND AND DECLARE THAT I AM THE CERTIFIER IDENTIFIED BELOW AND HOLD A CURRENT VALID APPOINTMENT. I CERTIFY THAT AT THE TIME OF INSPECTION THE ABOVE MENTIONED VEHICLE COMPONENT DESIGN AND THIS CERTIFICATION COMPLIES IN ALL RESPECTS WITH THE LAND TRANSPORT RULE VEHICLE STANDARDS COMPLIANCE 2002 AND MY NOTICE OF APPOINTMENT. TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED IN THIS CERTIFICATE IS TRUE AND CORRECT.

**NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015, SCHEDULE 5:**

DATE: 28/10/2025

SIGNED:

CERTIFIER NAME & ID:

CHRIS CLARKE

CJC

SODC BY:

JOHN HIRST

JEH

PHONE (BUS):

09-980-7300

POSTAL ADDRESS:

P.O. Box 98-971, Manukau 2241

New Zealand