

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

Vehicle registration (optional) VIN/chassis number **7A9E2501XL2023026**

Make **DOMETT** Component being certified: ☐ Chassis ☐ Load anchorage
Model (optional) **E2501 H** ☐ Log bolsters ☐ Towing connection ☒ Brakes
Certification category **HVEK** ☐ SRT ☐ PSV stability ☐ PSV rollover
☐ Swept path ☐ PBS

Description of work
CERTIFY TO SCHEDULE 5 OF LTR 32015/5: NZ HEAVY VEHICLE BRAKE SPECIFICATION.
CARRY OUT BRAKE CALCULATIONS, INSPECTION AND ECU END OF LINE PROTOCOL.
5AFT LIVESTOCK RSS ON TYRE: 265 70 R19.5
FOR SYSTEM ARCHITECTURE, PLEASE REFER TO PDS WORKSHEET & SCHEMATIC.

Code/standard/rule certified to **LTR 32015/5** Component load rating(s) **32 Tonnes GVM**
General drawing number(s) **N/A** **16 Tonne (Front brake mass)**
19 Tonne (Rear brake mass)


Supporting documents
BRAKE RULE CERTIFICATE JH210102
BRAKE CALCULATION # TP52207

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) **N/A [UNLESS MODIFIED]** 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.





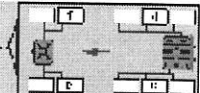










Designer's ID (if different from inspector below) **JOHN HIRST J E H**
Inspector's signature 
Inspector's name (PRINT IN CAPS) **CHRIS CLARKE** ID number **CJC**
Date **13-Jan-21** Number **770243**

CoF vehicle inspector ID (if applicable) CoF vehicle inspector signature (if applicable) 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	2020-07-17	Serial number	437009132800H
Serial number (modulator)	000000503394		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2021-01-13 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

WABCO										TRAILER EBS-E										GGVS/ADR TUEH TB 2007 - 019.00 TDB0749																								
HERSTELLER MANUFACTURER CONSTRUCTEUR					DOMETT TRAILERS																																							
TYP TYPE TYPE					5AFT LIVESTOCK																																							
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS					7A9E2501XL2023026																																							
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.					TP52207A																																							
POLRADZAHNEZAHL c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUE DENTEE c-d e-f					90	90	ABS-System ABS-System Système ABS		4S/3M																																			
RSS RSS RSS		Einfachbereifung Single Tire Monte simple						Lenkachse Steering axle Essieu vireur																																				
		Zwillingsbereifung Twin Tire Monte jumelée			X			Kippkritisches Fahrzeug Critical Trailer Vehicule critique																																				
Subsystems					SB					I/O					24N																													
																																												
ACHSE AXLE ESSIEU		pm (bar)		6.5		pm (bar)		0.8		2.0		---		6.5												(bar)																		
														pz				TYP TYPE		(mm)		(mm)				1.0		Pz																
1		2400	1.2	2.4	8000	5.1	0.4	1.3	---	6.4	-	20	65	69	509	4720																												
2		2400	1.2	2.4	8000	5.1	0.4	1.3	---	6.4	-	20	65	69	509	4720																												
3		1800	0.8	1.6	6340	4.0	0.3	1.4	---	4.3	-	14 / 16	64	69	489	2582																												
4		1800	0.8	1.6	6340	4.0	0.3	1.4	---	4.3	-	14 / 16	64	69	489	2582																												
5		1800	0.8	1.6	6340	4.0	0.3	1.4	---	4.3	-	14	64	69	489	2582																												

TEBS-E

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

Electronic Extension Module			
Diagnostic memory	Not tested	Signal outputs	Not tested
TailGUARDlight	Not tested	TailGUARD	Not tested
Manufacturer	DOMETT TRAILERS	Vehicle ident. no	7A9E2501XL2023026
Vehicle type	5AFT LIVESTOCK	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke	<div style="text-align: right;"> Signature  </div>	
Date	2021-01-13 1:12:03 PM		

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

distribution: DOMETT TRAILERS
7A9E2501XL2023026
SODC: JH210102
LT400: CJC 770243

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 (V6.18.07.12).
-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 31.08.2018

vehicle manufacturer: DOMETT TRAILERS
trailer model : 5AFT LIVESTOCK
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS E
TRISTOP 3+4: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED -
SEE PAGE 7 FOR PERFORMANCE DATA]
265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : SAF, SBW 1937, TDB 0749 ECE,

		unladen	laden
total mass	P in kg	10200	35020
axle 1	P1 in kg	2400	8000
axle 2	P2 in kg	2400	8000
axle 3	P3 in kg	1800	6340
axle 4	P4 in kg	1800	6340
axle 5	P5 in kg	1800	6340
wheel base	E in mm	6450 - 6550	
centre of gravity height	h in mm	1484	2275

	axle 1	axle 2	axle 3	axle 4	axle 5
no. of combined axles	1	1	1	1	1
no. of brake chambers per axle line KDZ	2	2	2	2	2
The power output corresponds to	BZ 122.1	BZ 122.1	BZ 119.6	BZ 119.6	BZ 122.1
brake chamber manufacturer	Meritor	Meritor	Meritor	Meritor	Meritor
chamber size	20.	20.	T.14/24	T.14/24	14.
lever length lBh in mm	69	69	69	69	69
brake factor [-]	23.03	23.03	23.03	23.03	23.03
dyn. rolling radius rdyn min in mm	421	421	421	421	421
dyn. rolling radius rdyn max in mm	421	421	421	421	421
threshold torque Co Nm	6.0	6.0	6.0	6.0	6.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.3	2.3	2.0	2.0	2.0
chamber pressure(rdyn max)pH at z=22,5%bar	2.3	2.3	2.0	2.0	2.0
chamber press.(servo)pcha at pm6,5bar bar	6.4	6.4	4.3	4.3	4.3
piston force ThA at pm6,5bar N	7441	7441	4085	4085	4085
brake force(rdyn min)T lad. at pm6,5bar N	56364	56364	30836	30836	30836
brake force(rdyn max)T lad. at pm6,5bar N	56364	56364	30836	30836	30836
Brake force incl. 1 % rolling resistance proportion %	22.3	22.3	18.5	18.5	18.5

braking rate z laden 0.597 for rdyn min
z = sum (TR)/PRmax 0.597 for rdyn max

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

maximum pressure: 8.5 bar

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

brake cylinder: Meritor 20HSCLD65

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

brake cylinder: Meritor 20HSCLD65

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

brake cylinder: Meritor 1424HTLD64

axle 4:

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

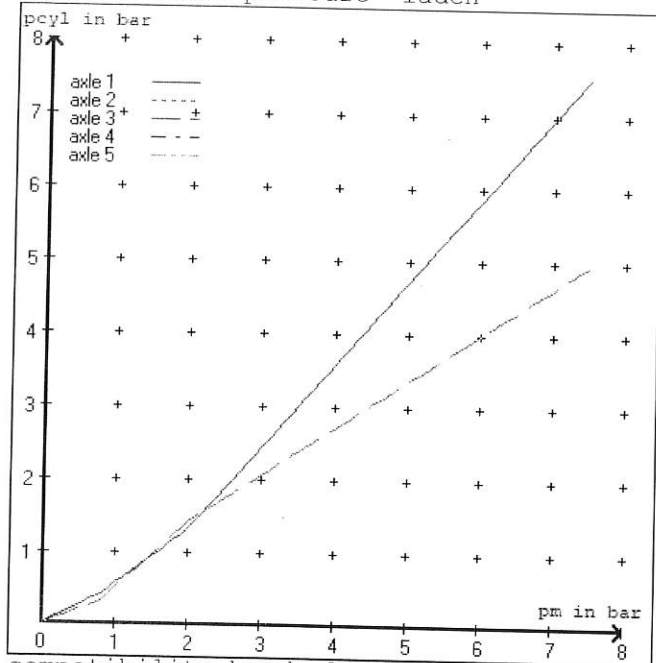
brake cylinder: Meritor 1424HTLD64

axle 5:

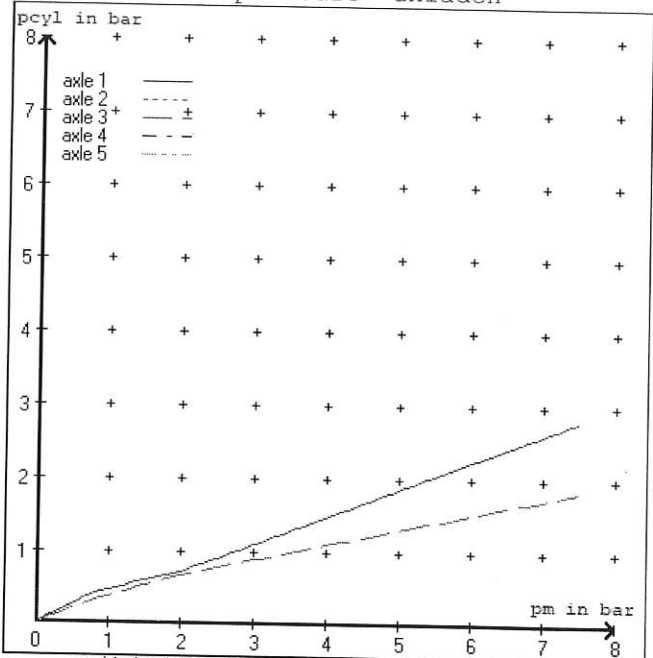
valve 1: 480 102 0.. 0 WABCO
EBS trailer modulator

brake cylinder: Meritor 14HSCLD64

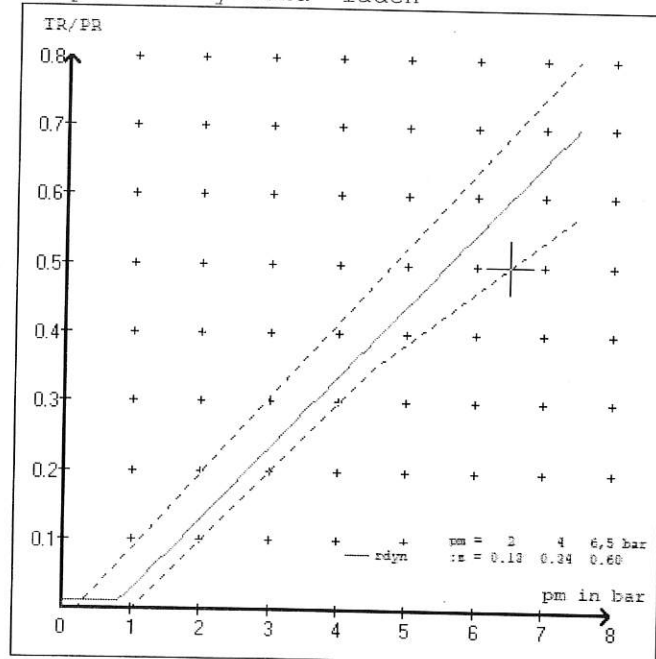
test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 3.6 bar =>	pcha in bar :	3.2	3.2	2.5	2.5	2.5	
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 1.3 bar =>	pcha in bar :	0.8	0.8	0.8	0.8	0.8	



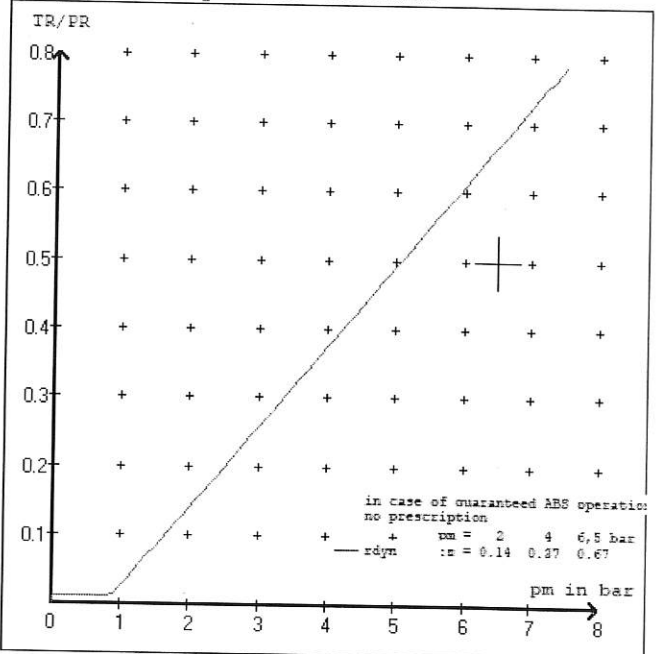
brake chamber pressure unladen



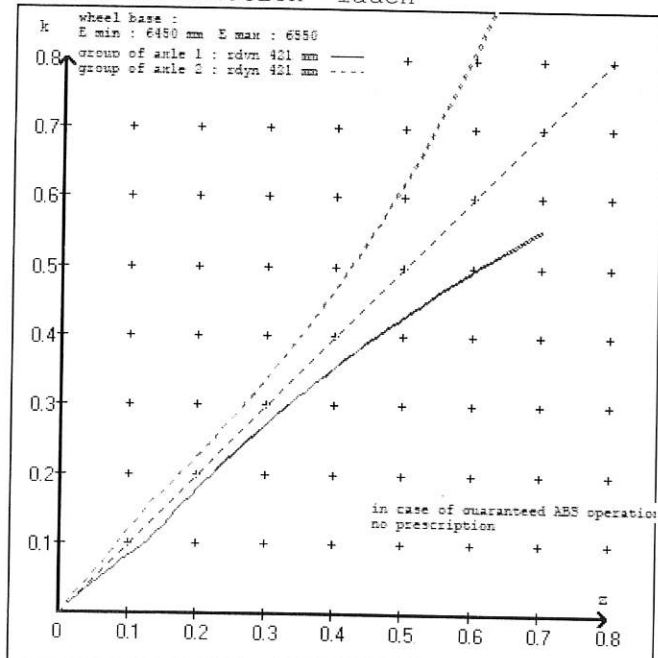
compatibility band laden



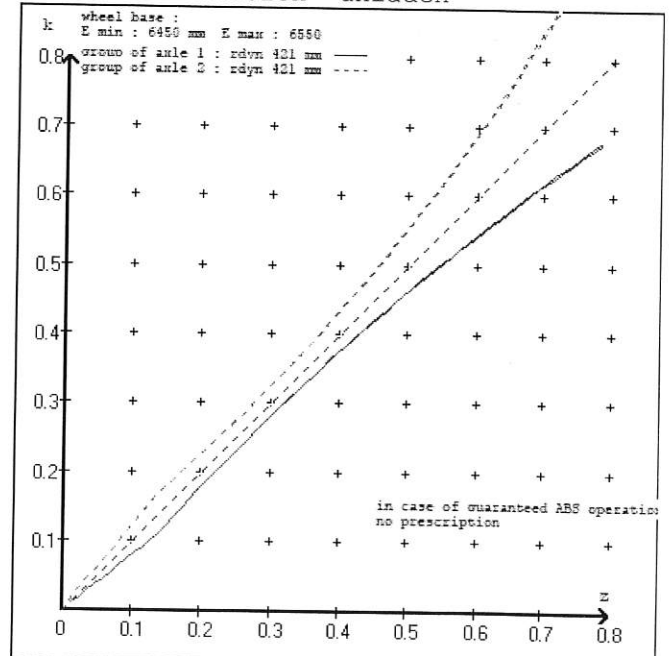
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT TRAILERS
trailer model : 5AFT LIVESTOCK
trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1 :	2 x type/diameter	20.	(Meritor)	lever length 69 mm
axle 2 :	2 x type/diameter	20.	(Meritor)	lever length 69 mm
axle 3 :	2 x type/diameter	T.14/24	(Meritor)	lever length 69 mm
axle 4 :	2 x type/diameter	T.14/24	(Meritor)	lever length 69 mm
axle 5 :	2 x type/diameter	14.	(Meritor)	lever length 69 mm

brake diagram :

valve :

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

EBS input data

=====

vehicle manufacturer: DOMETT TRAILERS
trailer model : 5AFT LIVESTOCK
trailer type : 5-axle-full-trailer
brake calculation no. : TP 52207A

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	2400	to be entered by the vehicle manufact.	2.4	8000	to be entered by the vehicle manufact.	0.4	1.3	6.4	
2	2400		2.4	8000		0.4	1.3	6.4	
3	1800		1.6	6340		0.3	1.4	4.3	
4	1800		1.6	6340		0.3	1.4	4.3	
5	1800		1.6	6340		0.3	1.4	4.3	

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.

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axle 1	axle 2	axle 3	axle 4	axle 5
axle load pcy1	axle load pcy1	axle load pcy1	axle load pcy1	axle load pcy1
2400 2.4	2400 2.4	1800 1.6	1800 1.6	1800 1.6
2900 2.8	2900 2.8	2300 1.9	2300 1.9	2300 1.9
3400 3.1	3400 3.1	2800 2.2	2800 2.2	2800 2.2
3900 3.5	3900 3.5	3300 2.5	3300 2.5	3300 2.5
4400 3.8	4400 3.8	3800 2.8	3800 2.8	3800 2.8
4900 4.2	4900 4.2	4300 3.1	4300 3.1	4300 3.1
5400 4.5	5400 4.5	4800 3.4	4800 3.4	4800 3.4
5900 4.9	5900 4.9	5300 3.7	5300 3.7	5300 3.7
8000 6.4	8000 6.4	6340 4.3	6340 4.3	6340 4.3

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
axle 4 : reference axle: SAF	SBW 1937	brake lining: Jurid 539
test report :	TDB 0749 ECE	date : 20130930 30.09.2013
axle 5 : 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 = 26.2 % Fe
axle 2	(rdyn 421 mm)	T = 26.2 % Fe
axle 3	(rdyn 421 mm)	T = 16.9 % Fe
axle 4	(rdyn 421 mm)	T = 16.9 % Fe
axle 5	(rdyn 421 mm)	T = 16.9 % Fe

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

axle 1	(sp = 58 mm)	s = 39 mm
axle 2	(sp = 58 mm)	s = 39 mm
axle 3	(sp = 56 mm)	s = 39 mm
axle 4	(sp = 56 mm)	s = 39 mm
axle 5	(sp = 56 mm)	s = 39 mm

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

axle1	ThA = 7441 N
axle2	ThA = 7441 N
axle3	ThA = 4085 N
axle4	ThA = 4085 N
axle5	ThA = 4085 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 = 44004 N
axle 2	(rdyn 421 mm)	T = 44004 N
axle 3	(rdyn 421 mm)	T = 24160 N
axle 4	(rdyn 421 mm)	T = 24160 N
axle 5	(rdyn 421 mm)	T = 24160 N

basic test of subject trailer (E)	type III (calculated) residual (hot)braking
0.60	0.47

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)
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axle 1	(rdyn 421 mm)	T = 44004 N
axle 2	(rdyn 421 mm)	T = 44004 N
axle 3	(rdyn 421 mm)	T = 24160 N
axle 4	(rdyn 421 mm)	T = 24160 N
axle 5	(rdyn 421 mm)	T = 24160 N

basic test of subject trailer (E)	type III (calculated) residual (hot)braking
0.60	0.47

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)
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spring parking brake

	axle 3	axle 4
no of TRISTOP-actuators per axle line KDZ	2	2
TRISTOP-actuator type	T.14/16	T.14/16
lever length	69	69
stat. tyre radius	401	401
at a stroke of	30	30
min. force of spring brake	6160	6160
sp.brake chamber no Meritor.....	4	4
release pressure	4.8	4.8

calculation:

ratio until road	3.9674	3.9674
$iFb = lBh * \eta * C * rBt / (rBn * rstat)$		
for rstat in mm	401	401
brake force of spring br. Tf in N	48188	48188
$Tf = (TFZ * KDZ - 2 * Co / lBh) * iFb$		
braking rate	0.291	
$zf = \sum (Tf) / P + 0,01$		

Test of the frictional connection required by the parking brake

minimum wheelbase/minimum supporting width min Ef necessary
to fulfil the regulations

$$\min Ef = E * (1 - PR/P + zferf * h/E) / (1 - zferf / (fzul * nf/ng))$$

$$\min Ef = 5066 \text{ mm for } E = 6450 \text{ mm}$$

$$\min Ef = 5135 \text{ mm for } E = 6550 \text{ mm}$$

min Ef = minimum distance between front axle(s) (trailer) or support (semitraile
and the rear axle(s) (resultant of the bogie)

E = wheel base

fzul = 0.80 maximum permissible frictional connection required

zferf = 0.18 maximum required braking ratio of the parking brake

h = 2275 mm height of center of gravity - laden

PR = 19020 kg maximum bogie mass - laden

P = 35020 kg maximum total mass - laden

nf = 2 no. of axle(s) with TRISTOP spring brake actuators

ng = 3 no. of bogie axle(s)

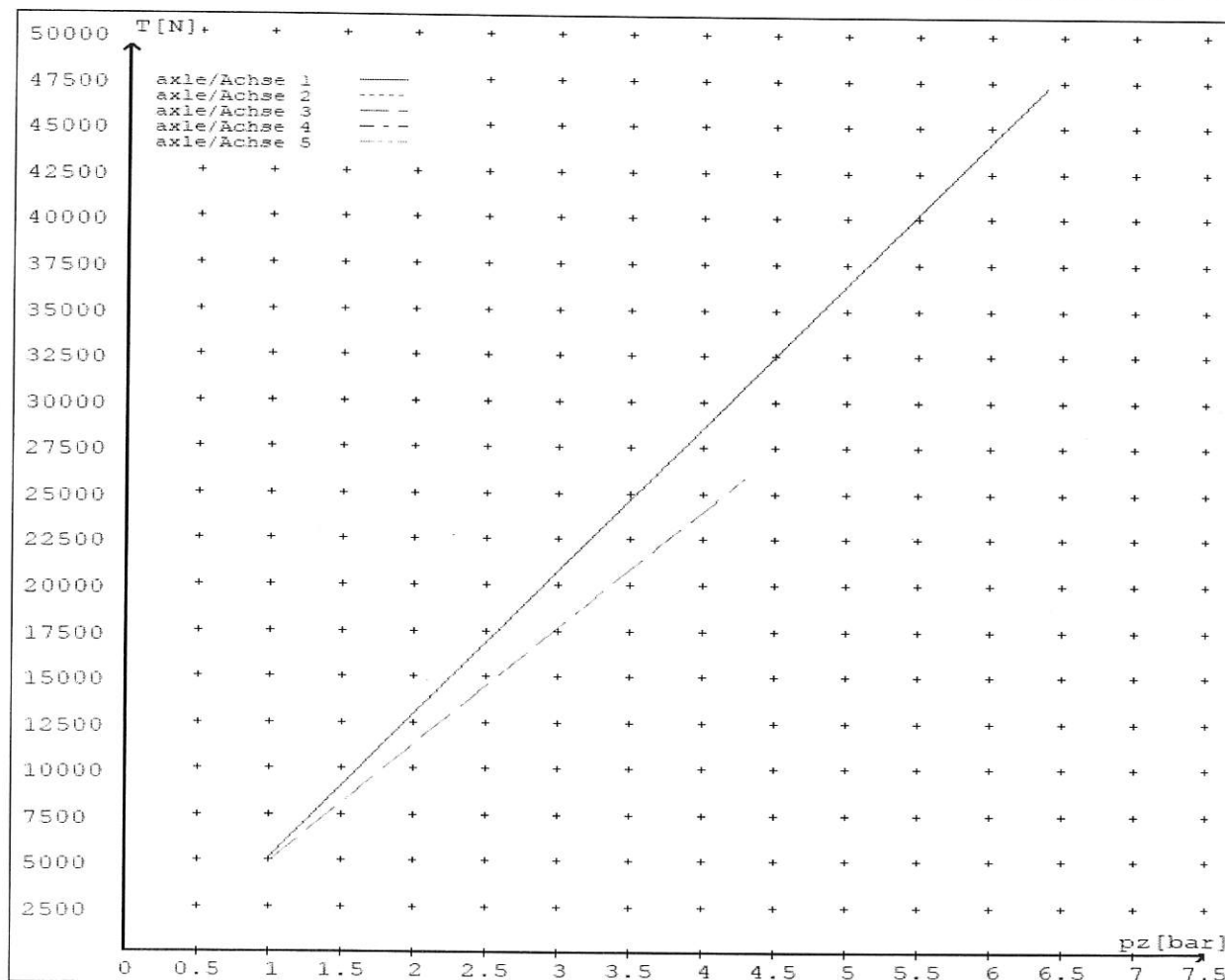
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0 6.4	5095 47206	
axle 2	1.0 6.4	5095 47206	
axle 3	1.0 4.3		4896 25826
axle 4	1.0 4.3		4896 25826
axle 5	1.0 4.3		4896 25826

VIN - no.:

	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	20./	20./	T.14/24	T.14/24	14./
Maximum stroke smax = ...mm maximaler Hub smax =mm	65	65	64	64	64
Lever length =mm Hebellänge =mm	69.08	69.08	69.08	69.08	69.08



NOTICE TO VEHICLE OPERATOR

THIS VEHICLE HAS A BRAKE SYSTEM WHICH HAS BEEN DESIGNED AND FITTED IN ACCORDANCE WITH THE LAND TRANSPORT HEAVY VEHICLE BRAKE RULE 32015/5.

IF THIS VEHICLE IS OPERATED IN CONJUNCTION WITH NON-CERTIFIED VEHICLES, THERE MAY BE OPERATIONAL FACTORS WHICH NEED TO BE TAKEN INTO CONSIDERATION.

PLEASE REFER TO THE CERTIFIER FOR FURTHER INFORMATION.

**EXCERPT FROM LAND TRANSPORT RULE; HEAVY-VEHICLE BRAKES
RULE 32015/5. SECTION 10,**

10.1 RESPONSIBILITIES OF OPERATORS

A person who operates a vehicle must ensure that the vehicle complies with this rule.

10.2 RESPONSIBILITIES OF REPAIRERS

A person who repairs or adjusts a brake must ensure that the repair or adjustment:

- a) does not prevent the vehicle from complying with this rule;
- b) complies with Land Transport Rule: Vehicle Repair 1998.

10.3 RESPONSIBILITIES OF MODIFIERS

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 person or organisation appointed to carry out specialist inspection and certification of heavy vehicle brakes.

***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 New Zealand Transport Authority if dissatisfied with a Compliance issue. (Refer NZTA Deed Of Appointment Para 47.4) NZTA Helpdesk 0800 699 000

(p.p.).....
(J.Hirst (JEH) HVEK)

NOTICE TO VEHICLE OPERATOR

This trailer is equipped with an Electronic Brake System.

To comply with the New Zealand Heavy Vehicle Brake Rule 32015/5, 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.

If you are unsure of your responsibilities and/or obligations, please contact either the vehicle manufacturer or myself.



(p.p.)
J E Hirst
(JEH HVEK)
(09 980 7300)



NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015-5
WORKSHEET, PROCEDURE DOCUMENTATION SHEET
& CONFIRMATION OF COMPLIANCE

CLIENT

MANUFACTURER:

DOMETT TRAILERS

ADDRESS:

TAURIKURA DRIVE, TAURANGA 3110

FLEET:

CHEVIOT TRANSPORT

VEHICLE DETAILS

VEHICLE TYPE:

SAFT LIVESTOCK

CERT #:

JH210102

YEAR:

2021

CALCULATION #:

TP52207

MAKE:

DOMETT

REGO #:

N/A

MODEL:

E2501 H

LT400 #:

770243

CHASSIS #:

2026

ORDER #:

7565

VIN #:

7A9E2501XL2023026

GVM: *t*

32

PRIME MOVER:

EBS / EUROPEAN

LOAD CONFIGURATION:

UNIFORM DENSITY

GROUP RATINGS: *t*

FRONT

REAR

16

19

WHEEL BASE: *m*

6.49

UNLADEN COG *m*

1.484

MAX HEIGHT *m*

4.3

HEIGHT DECK *m*

0.99

COG: *m*

2.275

FRONT

REAR

TOTAL

TARE: *t*

4.8

5.4

10.2

FRONT

REAR

TYRE SIZE:

265 70 R19.5

265 70 R19.5

ROLLING CIRCUMFERENCE: *mm*

2645

2645

AXLE SPACING: *m*

1.31

2.51

BRAKE & AXLE DETAILS

	MAKE	MODEL	TEST REPORT
AXLE:	SAF	SAF-ZI9W	TDB0749
POLE WHEEL FRONT:	90	POLE WHEEL REAR:	90
LINING MATERIAL:	JURID 539	BRAKE FACTOR:	23.03
SENSED AXLES:	2 + 4	NOTES:	
SERIAL NUMBERS:	1	N/A	NG-IU28-ZI9
	2	N/A	NG-IU28-ZI9
	3	N/A	NG-IU28-ZI9
	4	N/A	NG-IU28-ZI9
	5	N/A	NG-IU28-ZI9

CHAMBER AND VALVING DETAILS

CHAMBERS:	AXLE 1 & 2	AXLE 3 & 4	AXLE 5
BRAND:	TSE_CHAMBERS	TSE_CHAMBERS	TSE_CHAMBERS
SIZE:	20HSCLD	1416HTLD	14HSCLD
STROKE: mm	65	64	64
TEST REPORT #:	BC 0041.0 Jul '07	BC0143.0	TSE derived
SPRINGBRAKE FORCE: kN	N/A	6.16	N/A
HOLDOFF PRESSURE: Bar	N/A	4.8	N/A
FOUNDATION BRAKE:	WABCO PAN19	WABCO PAN19	WABCO PAN19
LEVER LENGTH: mm	69	69	69
BRAKE VALVES:	MAKE:	PART NUMBER:	PM PRESS. kPa
ECU PART #:	WABCO	480 102 08. 0 (MV)	80 kPa
3RD MODULATOR #:	WABCO	480 207 202 0 (12V)	80 kPa
ANTI-COMPOUNDING:	YES		
SPRING BRAKE RELAY:	SEALCO_SBR	110701	
YARD RELEASE VALVE:	SEALCO_YR	17600B	
INLINE RELAY FITTED:	N/A	N/A	
ECU DIRECTION:	<input checked="" type="checkbox"/> FRONT <input type="checkbox"/> REAR		FRONT FRICTION: μ 0.49

SUBSYSTEMS:☒ SMARTBOARD☐ OPTI-LINK☐ CAN ROUTER 446 122 050 0☐ ELEX 446 122 070 0☐ TAILGUARD

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SUSPENSION

	FRONT	REAR
SUSPENSION TYPE:	PNEUMATIC	PNEUMATIC
MAKE:	SAF_AIRSPRING	SAF_AIRSPRING
MODEL:	SAF_INTRA	SAF_INTRA
BELLOW SIZE:	2619, 300mm	2619, 300mm
HEIGHT CONTROL VALVE:	464 008 011 0	464 008 011 0
OTHER VALVES:	N/A	N/A
RIDE HEIGHT mm :	260	260
HANGER HEIGHT mm :	200	200
PEDESTAL HEIGHT mm :	50	50
LIFTAXLE:		N/A
TIPPING DUMP SWITCH:		N/A
LIFTAXLE VALVE:		N/A
PRESSURE LIMITING:		N/A

AIR TANKS

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

AIR LINES**TEST POINTS:**

CONTROL LINE:	X 1	TANK:	X 1
REAR CHAMBER:	X 2	FRONT CHAMBER:	X 1
DUOMATIC COLOUR CODED:	YES		

ELECTRONIC HEIGHT SENSOR CALIBRATION

	TIMER TICKS [F/R]	MILLIMETRE [F / R]
UPPER LEVEL:	N/A	N/A
NORMAL LEVEL:	N/A	N/A
LOWER LEVEL:	N/A	N/A

CHECKS AT COMMISSION OF VEHICLE

CHAMBER BUNGS REMOVED: ☒ **VALVE MOUNTING:** ☒

ECU BLANKING PLUGS CHECKED: ☒

RESPONSE TIME:	MODULATOR 2.1	MODULATOR 2.2	RELAY VALVE
ms:	200	210	385

NOTES AND SPECIAL CONDITIONS

REASON FOR CERTIFICATION: NEW TRAILER

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 DEED OF APPOINTMENT. TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED IN THIS CERTIFICATE IS TRUE AND CORRECT.

NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/5, SCHEDULE 5.

DATE: 13/01/2021

SIGNED:

CERTIFIER NAME & ID:

CHRIS CLARKE

CJC

SODC BY:

JOHN HIRST

JEH

PHONE (BUS):

09-980-7300

FAX:

POSTAL ADDRESS:

P.O. Box 98-971, Manukau 2241
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