

Heavy vehicle specialist inspector's or manufacturing inspecting organisation's name (PRINT IN CAPS) <b>CHRIS CLARKE</b>	ID <b>CJC</b>
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Vehicle registration (optional)	VIN/chassis number <b>7 A 9 E 2 5 0 1 X K 1 0 2 3 8 2 4</b>
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Make <b>DOMETT</b>	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 <b>HVEK</b>	<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  
 NEW ZEALAND HEAVY VEHICLE BRAKE SPECIFICATION.  
 RSS ON: TWIN / SINGLE TYRE. TYRE SIZE = 265/70 R19.5

Code/standard/rule certified to <b>LTR 32015/4</b>	Component load rating(s) <b>32 Tonnes GVM</b>
General drawing number(s) <b>N/A</b>	<b>35 Tonnes (Group ratings)</b>

Supporting documents

**BRAKE CODE CERTIFICATE JH190316**  
**BRAKE CALCULATION # TP51879**

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) <b>N/A [UNLESS MODIFIED]</b>	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"/>
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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) **CHRIS CLARKE** ID number **CJC**

Date **26-Mar-19** Number **677430**

CoF vehicle inspector ID (if applicable)	CoF vehicle inspector signature (if applicable)	Date
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All fields are mandatory unless otherwise stated.

# WABCO START-UP LOG

System	Trailer EBS-E	WABCO part number	480 102 084 0
Production date	2018-10-13	Serial number	437006323700L
Serial number (modulator)	000000506647		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2019-03-26 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

## WABCO

## TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00  
361-071-04

HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT TRAILERS			GIO	Pin1	Pin3	Pin4
TYP TYPE TYPE	5AFT LIVESTOCK			1	24V-01	---	---
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9E2501XK1023824			2	---	---	---
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP51879A			3	ALS2	ALS2	---
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	4	---	---	---
			4S/3M	5	DIAG	DIAG	DIAG
RSS RSS RSS	Einfachbereifung Single Tire Monte simple		Lenkachse Steering axle Essieu viraux	6	---	---	---
	Zwillingsbereifung Twin Tire Monte jumelée	X	Kippkritisches Fahrzeug Critical Trailer Vehicule critique	7	---	---	---
Subsystems	---	I/O	24N				

ACHSE AXLE ESSIEU	6.5		0.6		2.0		6.5		TYP TYPE	(mm)	(mm)	(bar)			
	pm	Pz	pm	Pz	pm	Pz	pm	Pz				1.0	Pz		
1	2400	1.1	3.2	8000	4.7	0.4	1.5	---	6.5	-	20	66	74	478	4513
2	2400	1.1	3.2	8000	4.7	0.4	1.5	---	6.5	-	20	66	74	478	4513
3	1800	0.7	2.4	6350	3.6	0.5	1.8	---	4.8	-	16 / 24	65	74	388	2719
4	1800	0.7	2.4	6350	3.6	0.5	1.8	---	4.8	-	16 / 24	65	74	388	2719
5	1800	0.7	2.4	6350	3.6	0.5	1.8	---	4.8	-	16	65	74	388	2719

### 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	7A9E2501XK1023824
Vehicle type	5AFT LIVESTOCK	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km

Tester	Chris Clarke	Signature
Date	2019-03-26 12:15:27 p.m.	

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

distribution: DOMETT TRAILERS  
 7A9E2501XK1023824  
 SODC: JH190316  
 LT400: CJC 677430

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!  
 WABCO Brake V6.14.04.20 db 03.11.2017

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: 16/24x  
 265/70 R 19,5  
 THE FRONT CHAMBERS ARE HALDEX T20 [125 200 001]

axle 1 + 2 + 3 + 4 + 5 : Assali Stefen, K, 361-071-04 ECE Re 432,

		unladen	laden
total mass	P in kg	10200	35050
axle 1	P1 in kg	2400	8000
axle 2	P2 in kg	2400	8000
axle 3	P3 in kg	1800	6350
axle 4	P4 in kg	1800	6350
axle 5	P5 in kg	1800	6350
wheel base	E in mm	6450 - 6550	
centre of gravity height	h in mm	700	2100

	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	2	2	2	2	2
The power output corresponds to	BZ 122.1	BZ 122.1	BZ 165.1	BZ 165.1	BZ 169.0
brake chamber manufacturer	Meritor	Meritor	Haldex	Haldex	Haldex
chamber size	20.	20.	16/24x	16/24x	16x
lever length	lBh in mm	74	74	74	74
brake factor	[-]	20.26	20.26	20.26	20.26
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	7.0	7.0	7.0	7.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.3	2.3	2.3	2.3	2.3
chamber pressure(rdyn max)pH at z=22,5%bar	2.3	2.3	2.3	2.3	2.3
chamber press.(servo)pcha at pm6,5bar bar	6.5	6.5	4.8	4.8	4.8
piston force	ThA at pm6,5bar N	7564	7564	4573	4573
brake force(rdyn min)T lad. at pm6,5bar N	53984	53984	32519	32519	32519
brake force(rdyn max)T lad. at pm6,5bar N	53984	53984	32519	32519	32519
brake force within 1 % rolling friction proportion	%	22.2	22.2	18.5	18.5

braking rate z laden 0.598 for rdyn min  
 z = sum (TR)/PRmax 0.598 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.. 0                      WABCO  
          EBS trailer modulator

brake cylinder: Haldex    135 1624

## axle 4:

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

brake cylinder: Haldex 135 1624

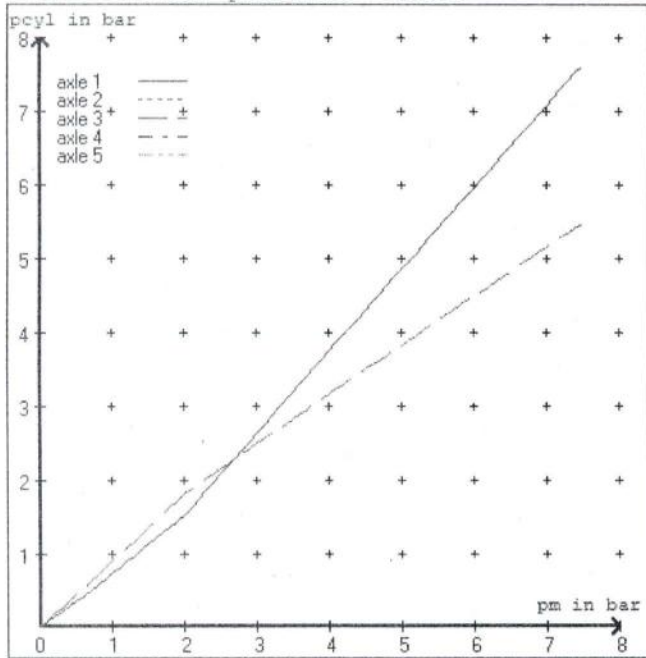
## axle 5:

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

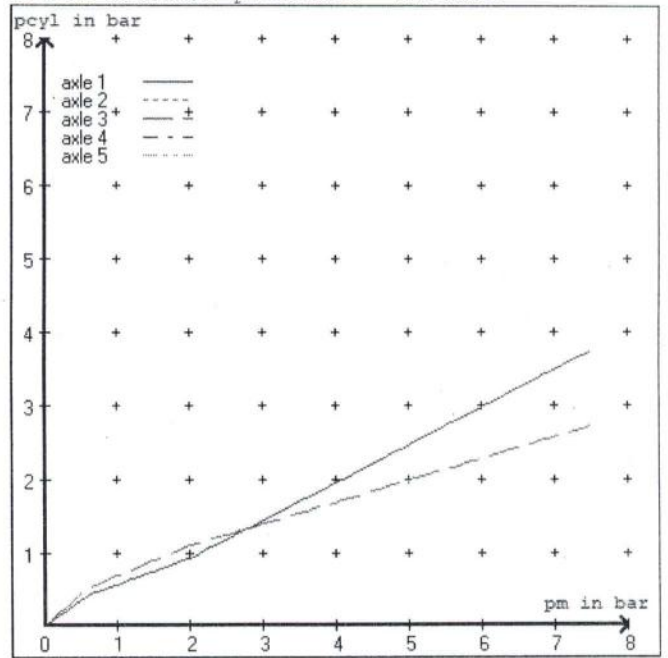
brake cylinder: Haldex 125 160 ...

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 3.5 bar =>	pcha in bar :	3.2	3.2	2.8	2.8	2.8	2.8
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 1.1 bar =>	pcha in bar :	0.8	0.8	1.0	1.0	1.0	1.0

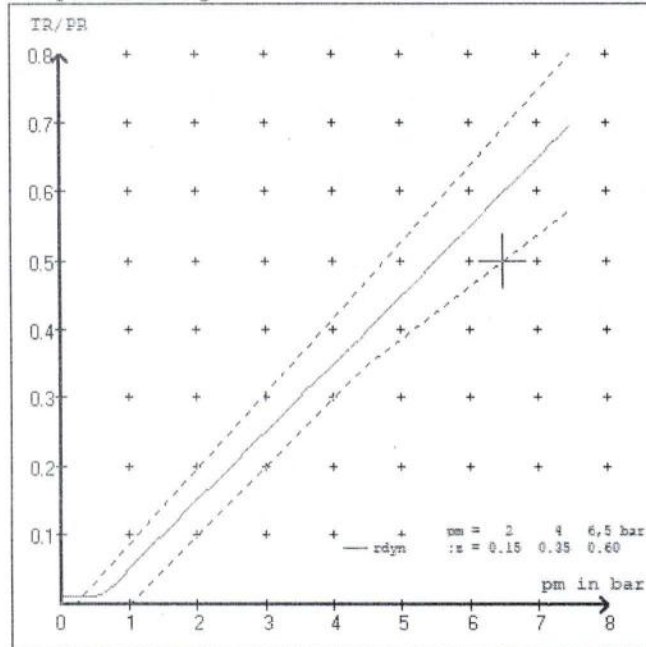
brake chamber pressure laden



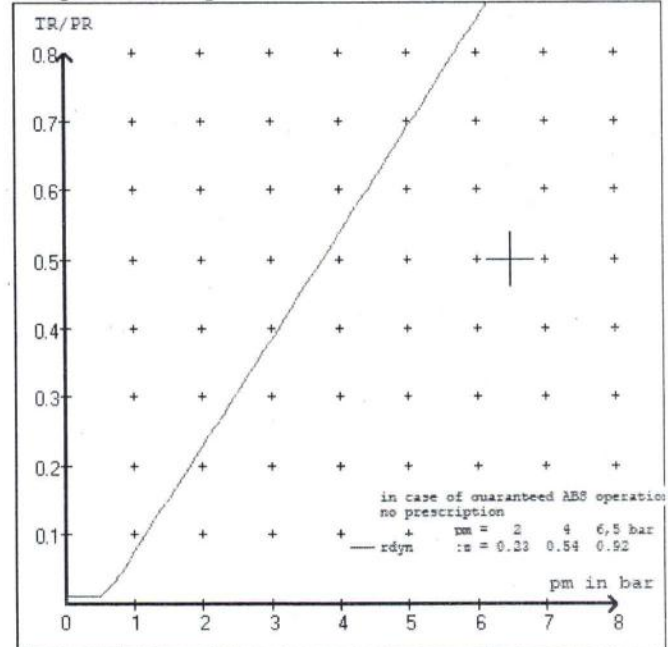
brake chamber pressure unladen



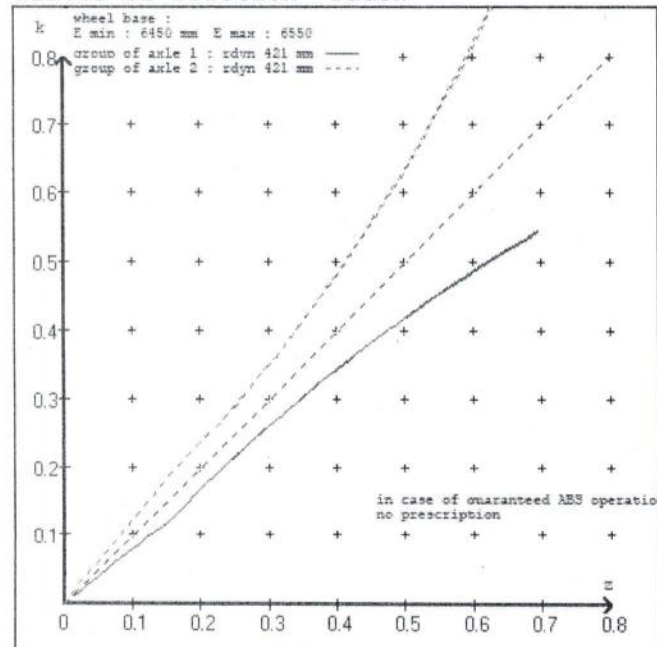
compatibility band laden



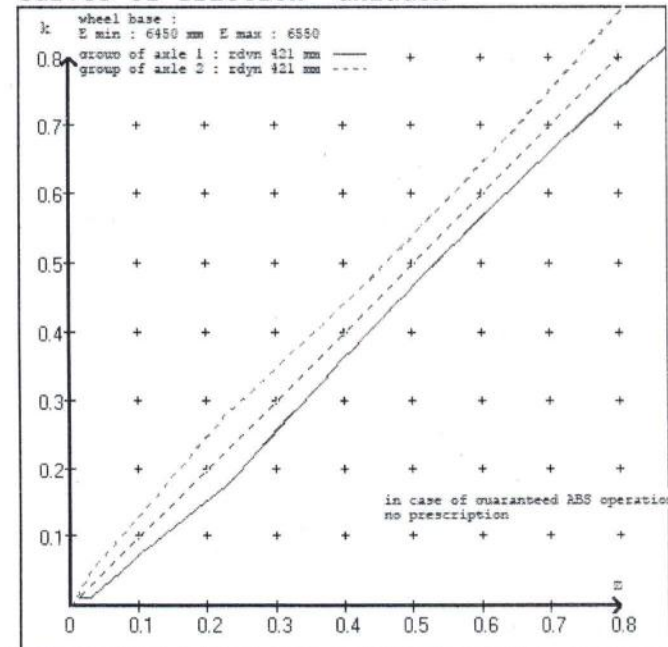
compatibility band unladen



curves of friction laden



curves of friction unladen



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

brake chamber and lever length :

axle 1 : 2 x type/diameter 20. (Meritor) lever length 74 mm  
 axle 2 : 2 x type/diameter 20. (Meritor) lever length 74 mm  
 axle 3 : 2 x type/diameter 16/24x (Haldex) lever length 74 mm  
 axle 4 : 2 x type/diameter 16/24x (Haldex) lever length 74 mm  
 axle 5 : 2 x type/diameter 16x (Haldex) lever length 74 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 51879A

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

assignment pm / deceleration z: pm 0.6 bar z = 0.010  
 (laden condition) 2.0 bar z = 0.150  
 6.5 bar z = 0.600

control pressure pm		6,5		control pressure pm		0.6	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	3.2	8000	to be	0.4	1.5	6.5
2	2400	entered by the vehicle manufact.	3.2	8000	entered by the vehicle manufact.	0.4	1.5	6.5
3	1800		2.4	6350		0.5	1.8	4.8
4	1800		2.4	6350		0.5	1.8	4.8
5	1800		2.4	6350		0.5	1.8	4.8

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 pcyl	axle load pcyl	axle load pcyl	axle load pcyl	axle load pcyl
2400 3.2	2400 3.2	1800 2.4	1800 2.4	1800 2.4
2900 3.5	2900 3.5	2300 2.7	2300 2.7	2300 2.7
3400 3.8	3400 3.8	2800 2.9	2800 2.9	2800 2.9
3900 4.1	3900 4.1	3300 3.2	3300 3.2	3300 3.2
4400 4.4	4400 4.4	3800 3.5	3800 3.5	3800 3.5
4900 4.7	4900 4.7	4300 3.7	4300 3.7	4300 3.7
5400 5.0	5400 5.0	4800 4.0	4800 4.0	4800 4.0
5900 5.3	5900 5.3	5300 4.2	5300 4.2	5300 4.2
8000 6.5	8000 6.5	6350 4.8	6350 4.8	6350 4.8

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

axle 1 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 432	date : GA310709
axle 2 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 432	date : GA310709
axle 3 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 432	date : GA310709
axle 4 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 432	date : GA310709
axle 5 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 432	date : GA310709

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 = 23.0 % Fe
axle 2	(rdyn 421 mm)	T = 23.0 % Fe
axle 3	(rdyn 421 mm)	T = 16.6 % Fe
axle 4	(rdyn 421 mm)	T = 16.6 % Fe
axle 5	(rdyn 421 mm)	T = 16.6 % Fe

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

axle 1	(sp = 58 mm)	s = 38 mm
axle 2	(sp = 58 mm)	s = 38 mm
axle 3	(sp = 49 mm)	s = 38 mm
axle 4	(sp = 49 mm)	s = 38 mm
axle 5	(sp = 49 mm)	s = 38 mm

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

axle1	ThA = 7564 N
axle2	ThA = 7564 N
axle3	ThA = 4573 N
axle4	ThA = 4573 N
axle5	ThA = 4573 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 = 46263 N
axle 2	(rdyn 421 mm)	T = 46263 N
axle 3	(rdyn 421 mm)	T = 27893 N
axle 4	(rdyn 421 mm)	T = 27893 N
axle 5	(rdyn 421 mm)	T = 27893 N

basic test	type III
of subject	(calculated)
trailer (E)	residual
	(hot)braking
	0.51

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

0.60

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 = 46263 N
axle 2	(rdyn 421 mm)	T = 46263 N
axle 3	(rdyn 421 mm)	T = 27893 N
axle 4	(rdyn 421 mm)	T = 27893 N
axle 5	(rdyn 421 mm)	T = 27893 N

basic test	type III
of subject	(calculated)
trailer (E)	residual
	(hot)braking
	0.51

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

0.60

required braking rate  
(items 1.5.3 and 1.7.2 to annex 11)

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



spring parking brake

		<u>axle 3</u>	<u>axle 4</u>
no of TRISTOP-actuators per axle line KDZ		2	2
TRISTOP-actuator type		16/24x	16/24x
lever length	lBh in mm	74	74
stat. tyre radius	rstat max in mm	401	401
at a stroke of	s in mm	30	30
min. force of spring brake	TFZ in N	6003	6003
sp.brake chamber no Haldex .....		135 162	135 162
release pressure	pLs in bar	5.2	5.2

calculation:

ratio until road		3.7388	3.7388
$iFb = lBh * \eta * C * rBt / (rBn * rstat)$	for rstat in mm	401	401
brake force of spring br. Tf in N		44180	44180
$Tf = (TFZ * KDZ - 2 * Co / lBh) * iFb$			
braking rate	zf laden	0.267	
$zf = \text{sum}(Tf) / P + 0,01$			

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 = 5015 mm for E = 6450 mm

min Ef = 5084 mm for E = 6550 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 = 2100 mm height of center of gravity - laden

PR = 19050 kg maximum bogie mass - laden

P = 35050 kg maximum total mass - laden

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

ng = 3 no. of bogie axle(s)

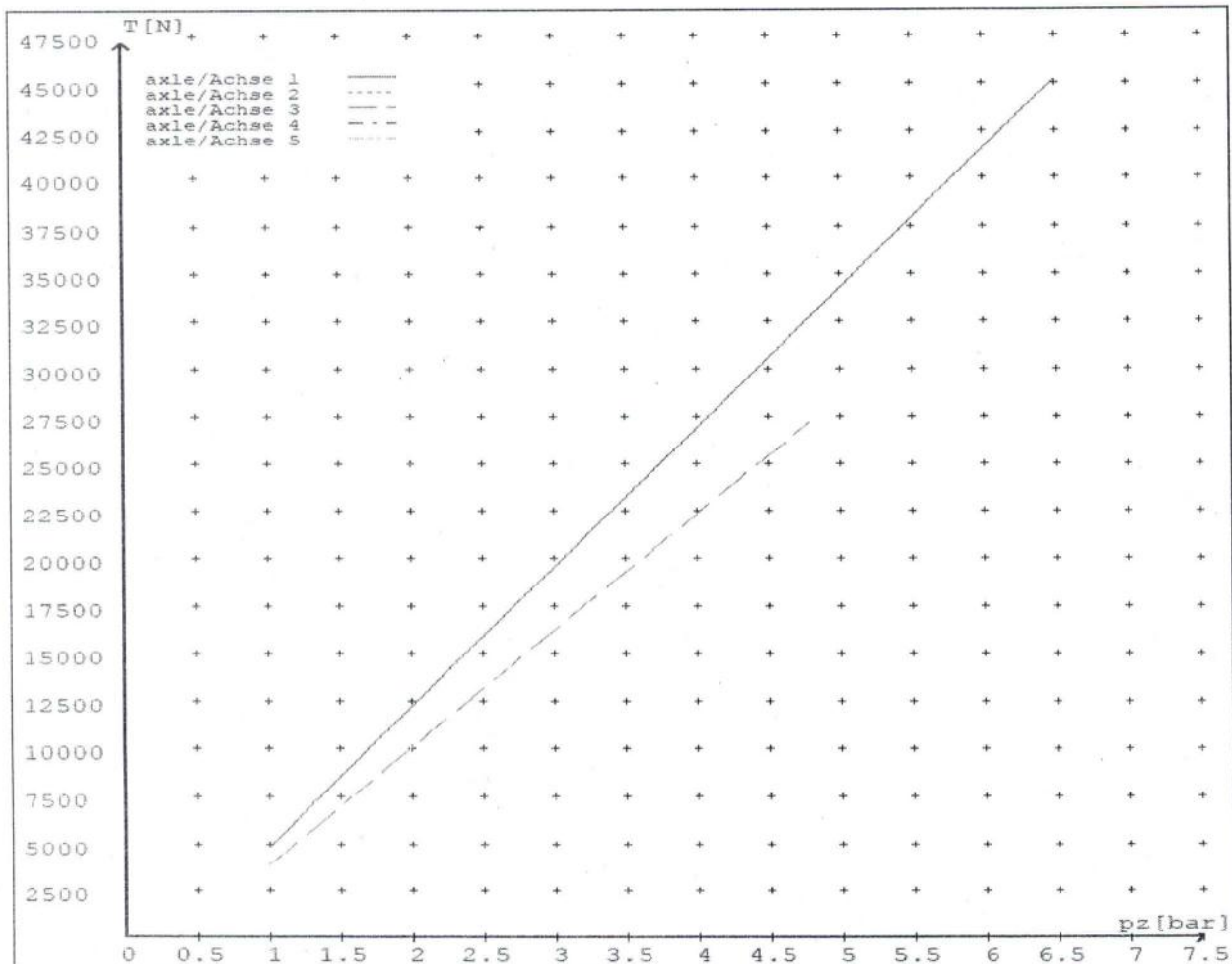
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0	4785	
	6.5	45137	
axle 2	1.0	4785	
	6.5	45137	
axle 3	1.0		3882
	4.8		27190
axle 4	1.0		3882
	4.8		27190
axle 5	1.0		3882
	4.8		27190

VIN - no.:

brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	Axle(s) / Achse(n)				
	20./	20./	16/24x	16/24x	16x/
Maximum stroke smax = ...mm maximaler Hub smax = ....mm	65	65	65	65	65
Lever length = ....mm Hebellänge = ....mm	74	74	74	74	74



**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 32015/4.*

*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 32015/4. 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 32015/4, 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 32015-4  
WORKSHEET, PROCEDURE DOCUMENTATION SHEET  
& CONFIRMATION OF COMPLIANCE**

**CLIENT**

<b>MANUFACTURER:</b>	DOMETT TRAILERS
<b>ADDRESS:</b>	TAURIKO BUSINESS PARK, TAURANGA 3110
<b>FLEET:</b>	NOT SPECIFIED

**VEHICLE DETAILS**

<b>VEHICLE TYPE:</b>	SAFT LIVESTOCK	<b>CERT #:</b>	JH190316
<b>YEAR:</b>	2019	<b>CALCULATION #:</b>	TP51879
<b>MAKE:</b>	DOMETT	<b>REGO:</b>	N/A
<b>MODEL:</b>	E2501 H	<b>LT400 #:</b>	
<b>CHASSIS #:</b>	1824	<b>ORDER NUMBER:</b>	6258
<b>VIN #:</b>	7A9E2501XK1023824		
<b>GVM: TONNES</b>	32	<b>PRIME MOVER:</b>	NORTH AMERICAN
<b>LOAD CONFIGURATION:</b>	UNIFORM DENSITY		
<b>GROUP RATINGS: TONNES</b>	<b>FRONT</b>	<b>REAR</b>	
	16	19	
<b>WHEEL BASE: METRES</b>	6.49		
	<b>UNLADEN COG</b>	<b>MAX HEIGHT</b>	<b>HEIGHT DECK</b>
	0.7	4.3	1.05
<b>COG: METRES</b>	2.045		
	<b>FRONT</b>	<b>REAR</b>	<b>TOTAL</b>
<b>TARE: TONNES</b>	4.8	5.4	10.2
	<b>FRONT</b>	<b>REAR</b>	
<b>TYRE SIZE:</b>	265/70 R19.5	265/70 R19.5	
<b>ROLLING CIRCUMFERENCE: MM</b>	2645	2645	
<b>AXLE SPACING: METRES</b>	1.31	2.51	

## BRAKE & AXLE DETAILS

	MAKE	MODEL	TEST REPORT
AXLE:	ROR_ASSALI_STEFEN	ROR-CS9 I DISC	361-071-04
POLE WHEEL FRONT:	90	POLE WHEEL REAR:	90
LINING MATERIAL:	ROR 8616	BRAKE FACTOR:	20.26
SENSED AXLES:	2 + 4		
SERIAL NUMBERS:	1	N/A	
	2	N/A	
	3	N/A	
	4	N/A	
	5	N/A	

## CHAMBER AND VALVING DETAILS

CHAMBERS:	AXLE 1 & 2	AXLE 3 & 4	AXLE 5
BRAND:	HALDEX_CHAMBERS	HALDEX_CHAMBERS	HALDEX_CHAMBERS
SIZE:	20, (125 200)	1624 (135 1624)	16, (125 160)
STROKE: <i>MILLIMETRES</i>	66	65	65
TEST REPORT #:	BC0175.0	BC0165.0	BC0169.0
SPRINGBRAKE FORCE: <i>kN</i>	N/A	6.003	N/A
HOLDOFF PRESSURE: <i>kPa</i>	N/A	4.8	N/A
FOUNDATION BRAKE:	MERITOR	MERITOR	MERITOR
LEVER LENGTH: <i>MILLIMETRES</i>	74	74	74
BRAKE VALVES:	MAKE:	PART NUMBER:	PM PRESS. <i>kPa</i>
ECU PART #:	WABCO	480 102 08. 0 (MV)	60 kPa
3RD MODULATOR #:	WABCO	480 207 202 0 (12V)	60 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	
SMARTBOARD/OPTILINK:	<input type="checkbox"/> SMARTBOARD	<input type="checkbox"/> OPTI-LINK	

## SUSPENSION

	FRONT	REAR
SUSPENSION TYPE:	PNEUMATIC	PNEUMATIC
MAKE:	ROR_AIRSPRING	ROR_AIRSPRING
MODEL:	ROR_INTRA	ROR_INTRA
BELLOW SIZE:	CS9I	CS9I
HEIGHT CONTROL VALVE:	464 008 011 0	464 008 011 0
OTHER VALVES:	N/A	N/A
RIDE HEIGHT <i>MM</i> :	280	280
HANGER HEIGHT <i>MM</i> :		
PEDESTAL HEIGHT <i>MM</i> :		
LIFTAXLE:	N/A	
TIPPING DUMP SWITCH:	N/A	
LIFTAXLE VALVE:	N/A	

## AIR TANKS

AIR TANKS STANDARD:	SAE J10A / EN286-2	
	FRONT	REAR
BRAKE TANK SIZE: <i>L</i>	46	46 + 25
AUXILLARY TANK SIZE: <i>L</i>	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:

**NOTES AND SPECIAL CONDITIONS**


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*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 /4, SCHEDULE 5.**

DATE: 26/03/2019

SIGNED: 

CERTIFIER NAME & ID: JOHN HIRST JEH

SODC BY: CHRIS CLARKE CJC

PHONE (BUS): 09-980-7300

FAX:

POSTAL ADDRESS: P.O. Box 98-971, Manukau 2241  
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