WAKA KOTAHI NZ TRANSPORT AGENCY

Heavy vehicle specialist certificate

Must be presented to a CoF (heavy) inspecting organisation if not entered into LANDATA

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

ID: CJC

Plate number *(optional)*:

VIN/chassis number: 7A9D15027M2023087

Make: DOMETT

Model *(optional)*: D1502

Certification category: HVEK

Component being certified:

- [ ] Chassis
- [ ] Load anchorage
- [ ] Log bolsters
- [ ] Towing connection
- [X] Brakes
- [ ] 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.
4AS PLATFORM **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: LTR 32015/5

General drawing number(s): N/A

Component load rating(s):
42 Tonnes GVM
26 Tonnes (Rear brake mass)

Supporting documents:
BRAKE RULE CERTIFICATE JH210633
BRAKE CALCULATION # TP52291

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)*:

Inspector's signature:

Inspector's name *(PRINT IN CAPS)*: CHRIS CLARKE ID number: CJC

Date: 19.07.2021

Number: 791672

CoF vehicle inspector ID *(if applicable)*:

CoF vehicle inspector signature *(if applicable)*:

Date:

All fields are mandatory unless otherwise stated.

WABCO START-UP LOG

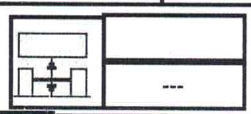
System	Trailer EBS-E	**WABCO part number**	480 102 080 0
Production date	2021-01-26	**Serial number**	437009992900L
Serial number (modulator)	000000526597		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2021-07-19 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

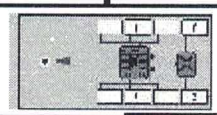
WABCO TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
TDB0749

HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT TRAILERS				
TYP TYPE TYPE	4AS PLATFORM				
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9D15027M2023087				
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP52291S				
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	4S/3M	
RSS RSS RSS Einfachbereifung Single Tire Monte simple			Lenkachse Steering axle Essieu vireur	X	
RSS RSS RSS Zwillingsbereifung Twin Tire Monte jumelée	X		Kippkritisches Fahrzeug Critical Trailer Véhicule critique		
Subsystems	SB		I/O	24N	

GIO	Pin1	Pin3	Pin4
1	24 V-O1	---	---
2	eTASC	---	eTASC
3	---	RDL	SAC
4	---	---	LS1
5	DIAG	DIAG	DIAG
6	---	---	---
7	---	---	---





	pm (bar)		6.5	pm (bar)		0.7	2.0	---	6.5		TYP TYPE	(mm)	(mm)	(bar) 1.0	Pz
ACHSE AXLE ESSIEU									pz					TR (daN)	
1	1400	0.5	2.0	6500	4.0	0.3	1.4	---	5.3	-	14 / 16	64	69	437	2867
2	1400	0.5	2.0	6500	4.0	0.3	1.4	---	5.3	-	14 / 16	64	69	437	2867
3	1400	0.5	2.0	6500	4.0	0.3	1.4	---	5.3	-	14	64	69	437	2867
4	1400	0.5	2.0	6500	4.0	0.3	1.4	---	5.3	-	14	64	69	437	2867
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 TRAILERS	**Vehicle ident. no.**	7A9D15027M2023087
Vehicle type	4AS PLATFORM	**Odometer reading**	0.0 km
Next service	0 km	**Trip reading**	0.0 km
Tester	Chris Clarke		
Date	2021-07-19 9:15:05 am	**Signature**	

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

distribution: DOMETT TRAILERS
7A9D15027M2023087
SoDC: JH210633
LT400: CJC 791672

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 31.08.2018

vehicle manufacturer: DOMETT TRAILERS
trailer model : 4AS PLATFORM
trailer type : 4-axle-semi-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS E
TRISTOP 1+2: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED - SEE PAGE 7 FOR PERFORMANCE DATA]
265/70 R 19,5

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

		unladen	laden
total mass	P in kg	7600 - 7700	42000 - 44000
king-pin	PS kg	2000 - 2100	16000 - 18000
axle 1	P1 in kg	1400	6500
axle 2	P2 in kg	1400	6500
axle 3	P3 in kg	1400	6500
axle 4	P4 in kg	1400	6500
total axle mass	PR in kg	5600	26000
wheel base	E in mm	9200 - 9910	
centre of gravity height	h in mm	815	2121
K-factor		Kv min 2.0723	Kc min 1.0830
K-factor		Kv max 2.0789	Kc max 1.1090

		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 119.6	BZ 119.6	BZ 122.1	BZ 122.1
brake chamber manufacturer		Meritor	Meritor	Meritor	Meritor
chamber size		T.14/24	T.14/24	14.	14.
lever length	lBh in mm	69	69	69	69
brake factor	[-]	23.03	23.03	23.03	23.03
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	5.3	5.3	5.3	5.3
piston force	ThA at pm6,5bar N	5087	5087	5087	5087
brake force(rdyn min)T lad. at pm6,5bar	N	38425	38425	38425	38425
brake force(rdyn max)T lad. at pm6,5bar	N	38425	38425	38425	38425
Brake force incl. 1 % rolling resistance proportion	%	25.0	25.0	25.0	25.0

braking rate z laden
z = sum (TR)/PRmax

0.603	for rdyn min
0.603	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: 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
EBS trailer modulator

brake cylinder: Meritor 14HSCLD64

axle 4:

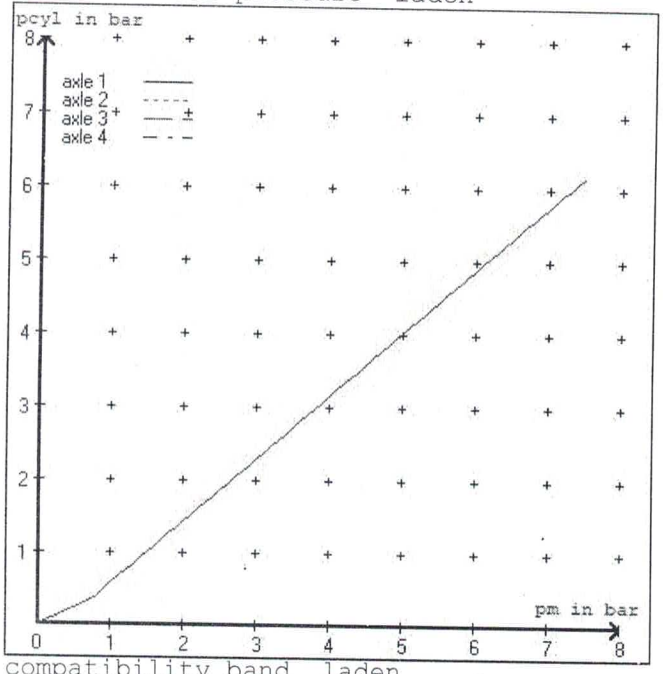
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

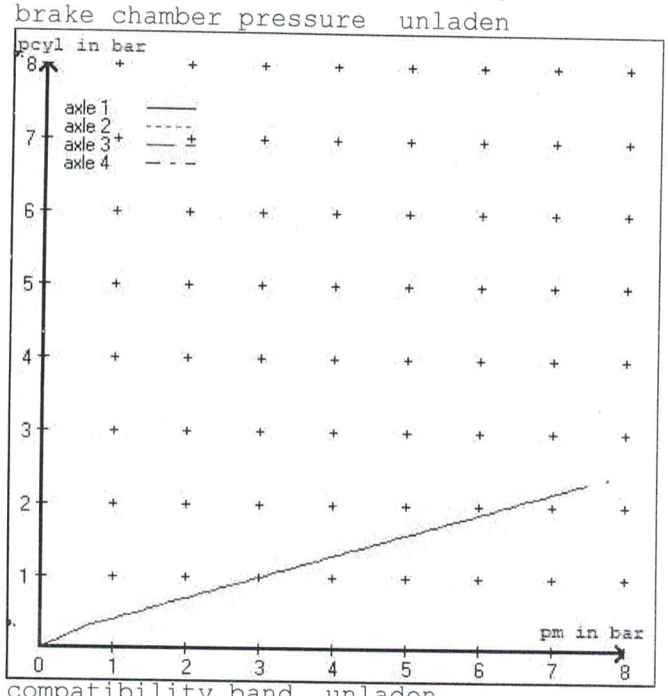
brake cylinder: Meritor 14HSCLD64

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	2.8	2.8
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4
at pm 1.2 bar =>	pcha in bar :	0.7	0.7	0.7	0.7

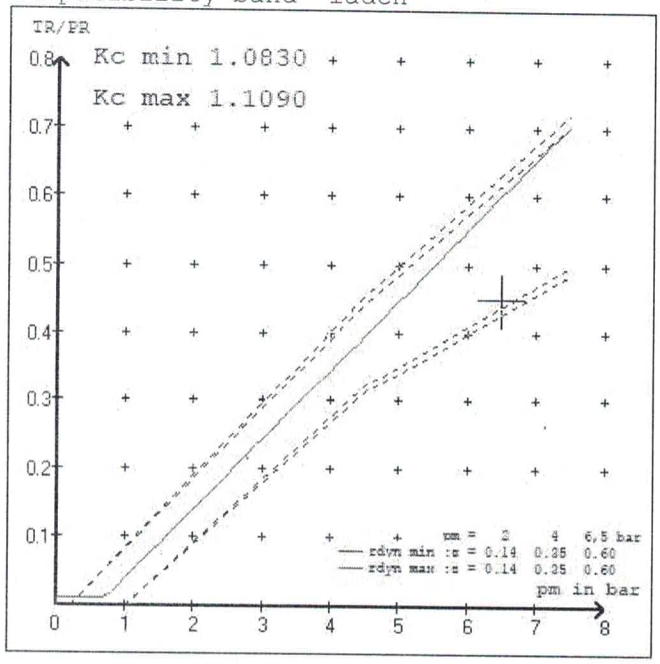
brake chamber pressure laden



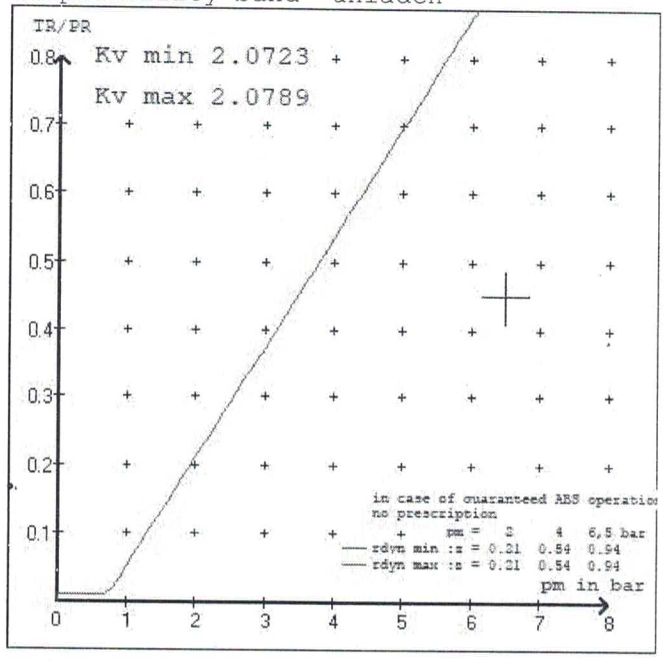
brake chamber pressure unladen



compatibility band laden



compatibility band unladen



vehicle manufacturer: DOMETT TRAILERS
trailer model : 4AS PLATFORM
trailer type : 4-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
axle 4 : 2 x type/diameter 14. (Meritor) lever length 69 mm

brake diagram :

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

EBS input data
==========
vehicle manufacturer: DOMETT TRAILERS
trailer model : 4AS PLATFORM
trailer type : 4-axle-semi-trailer
brake calculation no. : TP 52291S

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

assignment pm / deceleration z: pm 0.7 bar z = 0.010
(laden condition) 2.0 bar z = 0.142
6.5 bar z = 0.600

control pressure pm			6,5	control pressure pm		0.7	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 entered by the vehicle manufact.	2.0	6500	to be entered by the vehicle manufact.	0.3	1.4	5.3
2	1400		2.0	6500		0.3	1.4	5.3
3	1400		2.0	6500		0.3	1.4	5.3
4	1400		2.0	6500		0.3	1.4	5.3
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	pcyl	axle load	pcyl	axle load	pcyl	axle load	pcyl
1400	2.0	1400	2.0	1400	2.0	1400	2.0
1900	2.3	1900	2.3	1900	2.3	1900	2.3
2400	2.6	2400	2.6	2400	2.6	2400	2.6
2900	3.0	2900	3.0	2900	3.0	2900	3.0
3400	3.3	3400	3.3	3400	3.3	3400	3.3
3900	3.6	3900	3.6	3900	3.6	3900	3.6
4400	3.9	4400	3.9	4400	3.9	4400	3.9
4900	4.3	4900	4.3	4900	4.3	4900	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

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 = 19.1 % Fe
axle 2	(rdyn 421 mm)	T = 19.1 % Fe
axle 3	(rdyn 421 mm)	T = 19.1 % Fe
axle 4	(rdyn 421 mm)	T = 19.1 % 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
axle 4	(sp = 56 mm)	s = 39 mm

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

axle1	ThA = 5087 N
axle2	ThA = 5087 N
axle3	ThA = 5087 N
axle4	ThA = 5087 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 = 30051 N
axle 2	(rdyn 421 mm)	T = 30051 N
axle 3	(rdyn 421 mm)	T = 30051 N
axle 4	(rdyn 421 mm)	T = 30051 N

	basic test of subject trailer (E)	type III (calculated) residual (hot)braking
braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11)	0.60	0.47
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 = 30051 N
axle 2	(rdyn 421 mm)	T = 30051 N
axle 3	(rdyn 421 mm)	T = 30051 N
axle 4	(rdyn 421 mm)	T = 30051 N

	basic test of subject trailer (E)	type III (calculated) residual (hot)braking
braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11)	0.60	0.47
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

		axle 1	axle 2
no of TRISTOP-actuators per axle line	KDZ	2	2
TRISTOP-actuator type		T.14/16	T.14/16
lever length	lBh in mm	69	69
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	6160	6160
sp.brake chamber no Meritor.....		4	4
release pressure	pLs in bar	4.8	4.8

calculation:

ratio until road iFb = lBh*Eta*C*rBt/(rBn*rstat)		3.9674	3.9674
for rstat	in mm	401	401
brake force of spring br. Tf Tf = (TFZ*KDZ-2*Co/lBh)*iFb	in N	48188	48188
braking rate zf = sum (Tf)/P + 0,01	zf laden	0.388	

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 = 7537 mm for E = 9200 mm
==========
min Ef = 8065 mm for E = 9910 mm
==========

min Ef	=		minimum distance between front axle(s) (trailer) or support (semitrailer) 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	=	2121 mm	height of center of gravity - laden
PR	=	26000 kg	maximum bogie mass - laden
P	=	44000 kg	maximum total mass - laden
nf	=	2	no. of axle(s) with TRISTOP spring brake actuators
ng	=	4	no. of bogie axle(s)

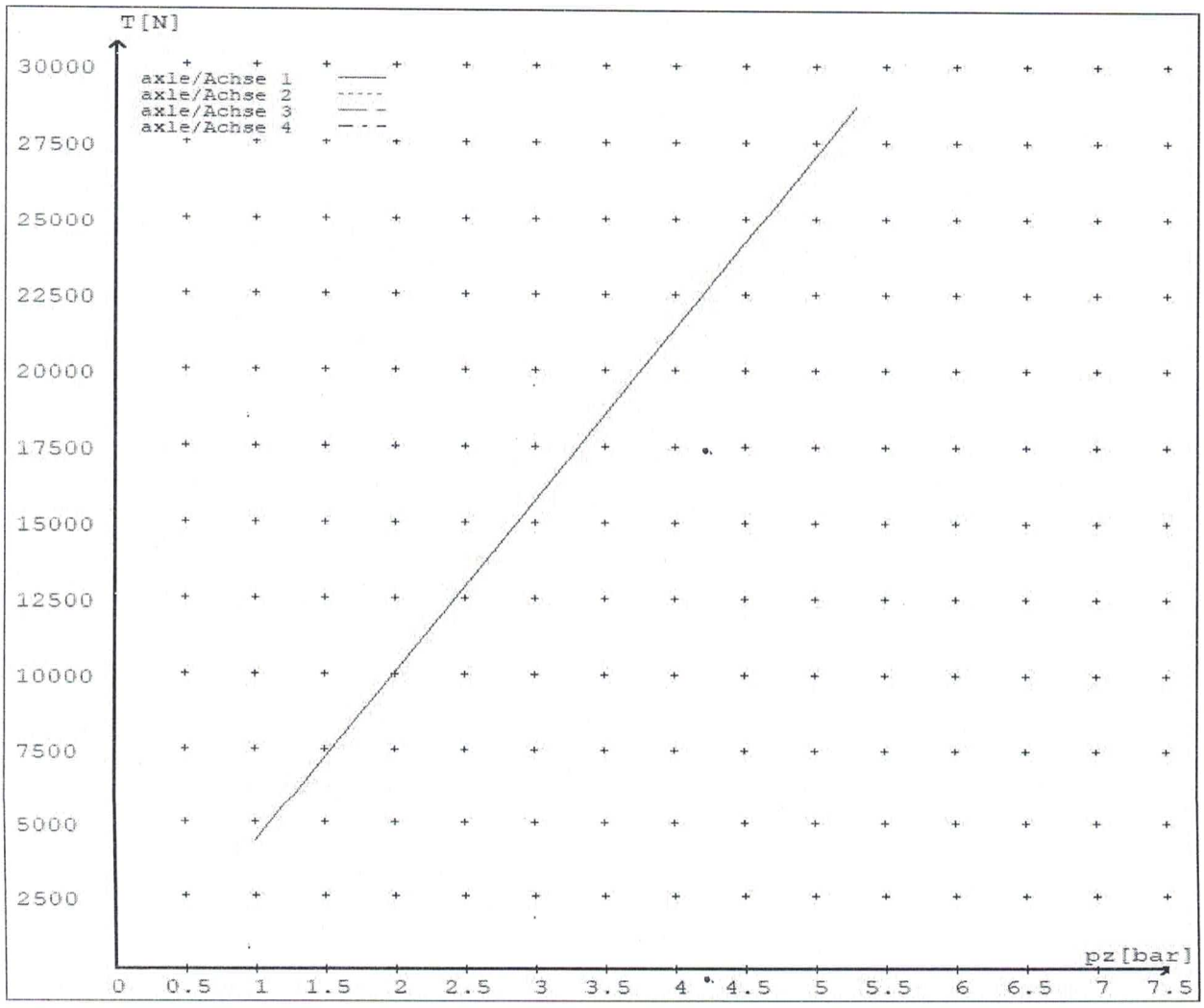
reference values

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

	pż [bar]	T [N]	T [N]
axle 1	1.0 5.3	4374 28675	
axle 2	1.0 5.3	4374 28675	
axle 3	1.0 5.3	4374 28675	
axle 4	1.0 5.3		4374 28675

VIN - no.:

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

NOTICE TO VEHICLE OPERATOR

This trailer is equipped with an **E**lectronic **B**rake **S**ystem.

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.

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

NOTICE TO VEHICLE OPERATOR

WABCO Park Release Emergency Valve (PREV)

This trailer is equipped with a WABCO PREV
Part # 971 002 900 0

Application of the park brake via the cab control valve will actuate and apply all service brakes on the trailer. In the event of a leak in the service brake system the Spring Brakes will automatically override and hold the vehicle in compliance to Land Transport Rule: Heavy-vehicle Brakes Rule 32015/5.

When the vehicle is presented for COF the trailer park brake system is tested by pulling the red actuation knob on the PREV, situated mid way down the chassis rail. The cab control in the prime mover does not have to be applied for this test procedure.

If you are unsure of any aspect relating to this instruction please contact either the vehicle manufacturer or myself.

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:	TR GROUP

VEHICLE DETAILS

VEHICLE TYPE:	4AS PLATFORM	**CERT #:**	JH210633
YEAR:	2021	**CALCULATION #:**	TP52291
MAKE:	DOMETT	**REGO #:**	N/A
MODEL:	D1502	**LT400 #:**	791672
CHASSIS #:	2087	**ORDER #:**	8152
VIN #:	7A9D15027M2023087		
GVM: *t*	42	**PRIME MOVER:**	UNKNOWN
LOAD CONFIGURATION:	MIXED FREIGHT		

	FRONT	REAR
GROUP RATINGS: *t*	16	26
WHEEL BASE: *m*	9.2	

	UNLADEN COG *m*	MAX HEIGHT *m*	HEIGHT DECK *m*
	0.815	4.3	1.28
COG: *m*	2.121		

	FRONT	REAR	TOTAL
TARE: *t*	1.9	5.7	7.6

	REAR
TYRE SIZE:	265 70 R19.5
ROLLING CIRCUMFERENCE: *mm*	2645
AXLE SPACING: *m*	4

BRAKE & AXLE DETAILS

	MAKE	MODEL	TEST REPORT
AXLE:	SAF	SAF-ZI9W	TDB0749
STEER AXLE[S]:	YES	POLE WHEEL:	90
LINING MATERIAL:	JURID 539	BRAKE FACTOR:	23.03
SENSED AXLES:	# 2 + # 4		NOTES:
SERIAL NUMBERS: 1			NG-IU33-ZI9
2			NG-IU33-ZI9
3			NG-IU33-ZI9
4			U30/3504E35RLZ19

CHAMBER AND VALVING DETAILS

CHAMBERS:	AXLE 1 & 2	AXLE 3 & 4	
BRAND:	TSE_CHAMBERS	TSE_CHAMBERS	
SIZE:	1416HTLD	14HSCLD	
STROKE: *mm*	64	64	
TEST REPORT #:	BC0143.0	BZ 122.1 Sep '00	
SPRINGBRAKE FORCE: *kN*	6.16	N/A	
HOLDOFF PRESSURE: *Bar*	4.5	N/A	
FOUNDATION BRAKE:	WABCO PAN19	WABCO PAN19	
LEVER LENGTH: *mm*	69	69	
BRAKE VALVES:	MAKE:	PART NUMBER:	PM PRESS. *kPa*
ECU PART #:	WABCO	480 102 08. 0 (MV)	70 kPa
3RD MODULATOR #:	WABCO	480 207 202 0 (12V)	70 kPa
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: ☑ FRONT ☐ REAR

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

SUSPENSION

	REAR
SUSPENSION TYPE:	ELECTRONIC
MAKE:	SAF_AIRSPRING
MODEL:	SAF_INTRA
BELLOW SIZE:	2619, 300mm
HEIGHT CONTROL VALVE:	441 050 100 0
OTHER VALVES:	463 090 500 0 (eTASC)
RIDE HEIGHT *mm* :	325
HANGER HEIGHT *mm* :	250
PEDESTAL HEIGHT *mm* :	100
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 + 46
AUXILLARY TANK SIZE: L	46
PRESSURE PROTECTION:	WABCO PEM: 461 513 002 0

AIR LINES

TEST POINTS:	
CONTROL LINE:	x1
FIXED AXLE CHAMBERS:	x2
STEER AXLE CHAMBERS:	x1
DUOMATIC COLOUR CODED:	YES
TANK:	X 1

ELECTRONIC HEIGHT SENSOR CALIBRATION

	TIMER TICKS [F/R]	MILLIMETRE mm [F / R]
UPPER LEVEL:	1347	410
NORMAL LEVEL:	1283	325
LOWER LEVEL:	1235	260

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:	225	235	250

NOTES AND SPECIAL CONDITIONS

FILES RECEIVED: 16.03.2021

FILES CREATED & SENT TO CJC: 21.06.2021

FILES RETURNED AS COMPLETED:

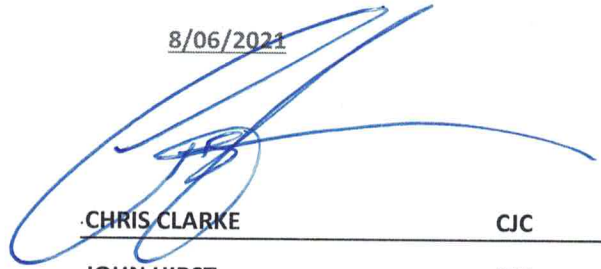
REASON FOR CERTIFICATION: NEW TRAILER BUILD

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

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

DATE: 8/06/2021

SIGNED:



CERTIFIER NAME & ID: CHRIS CLARKE CJC

SODC BY: JOHN HIRST JEH

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