

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

CHRIS CLARKE

ID

CJC

Plate number (optional)

VIN/chassis number

7A9D15026T2023578

Make

DOMETT

Model (optional)

D1502

Certification category

HVEK

Component being certified:

☐ Chassis

☐ Load anchorage

☐ Log bolster attachment

☐ Towing connection

☒ Brakes

☐ SRT

☐ PSV stability

☐ PSV rollover

☐ Swept path

☐ PBS

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.

4AS PLATFORM

RSS ON TYRE: 385 55 R22.5

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

REASON FOR CERTIFICATION: NEW TRAILER BUILD

Code/standard/rule certified to

LTR 32015

Component load rating(s)

42 Tonnes GVM

General drawing number(s)

N/A

26 Tonnes (Rear brake mass)

Supporting documents

BRAKE RULE CERTIFICATE JH260725

BRAKE CALCULATION # TP53160

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

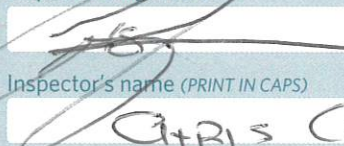
Hubodometer reading (whichever comes first)

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)

ID number

CHRIS CLARKE **CJC**

Date

30-Sep-26

Serial number (includes letter)

H 22384

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
7A9D15026T2023578
SoDC: JH260725
LT400: CJC H22384

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 13.10.2020

vehicle manufacturer: DOMETT TRAILERS
trailer model : 4AS PLATFORM
trailer type : 4-axle-semi-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS
TRISTOP 1+2: 16/24
385/55 R 22,5

axle 1 + 2 + 3 + 4 : Assali Stefen, K, 361-071-04 ECE Re 518,

			<u>unladen</u>		<u>laden</u>
total mass	P in kg	7000	-	9000	42000 - 42000
king-pin	PS kg	1400	-	3400	16000 - 16000
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			800	2400
K-factor		Kv min	2.0734	Kc min	1.0434
K-factor		Kv max	2.1006	Kc max	1.0653

		<u>axle 1</u>	<u>axle 2</u>	<u>axle 3</u>	<u>axle 4</u>
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		BC 0165.2BC	0165.2BC	0169.2BC	0169.2
brake chamber manufacturer		Haldex	Haldex	Haldex	Haldex
chamber size		16/24	16/24	16"	16"
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	480	480	480	480
dyn. rolling radius	rdyn max in mm	480	480	480	480
threshold torque	Co Nm	7.0	7.0	7.0	7.0

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.6	2.6	2.6	2.6
chamber pressure(rdyn max)pH at z=22,5%bar	2.6	2.6	2.6	2.6
chamber press.(servo)pcha at pm6,5bar bar	6.3	6.3	6.3	6.3
piston force ThA at pm6,5bar N	6118	6118	6118	6118
brake force(rdyn min)T lad. at pm6,5bar N	38265	38265	38265	38265
brake force(rdyn max)T lad. at pm6,5bar N	38265	38265	38265	38265
Brake force incl. 1 % rolling resistance proportion %	25.0	25.0	25.0	25.0

braking rate z laden 0.600 for rdyn min
z = sum (TR)/PRmax 0.600 for rdyn max

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

brake diagram : 841 701 050 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: Haldex 135 1624 ... / 175 1624...

axle 2:

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

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

brake cylinder: Haldex 135 1624 ... / 175 1624...

axle 3:

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

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

brake cylinder: Haldex 125 160 0.. - 125 160 5.. / 125 160 6.. - 125 160 9..

axle 4:

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

WABCO

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

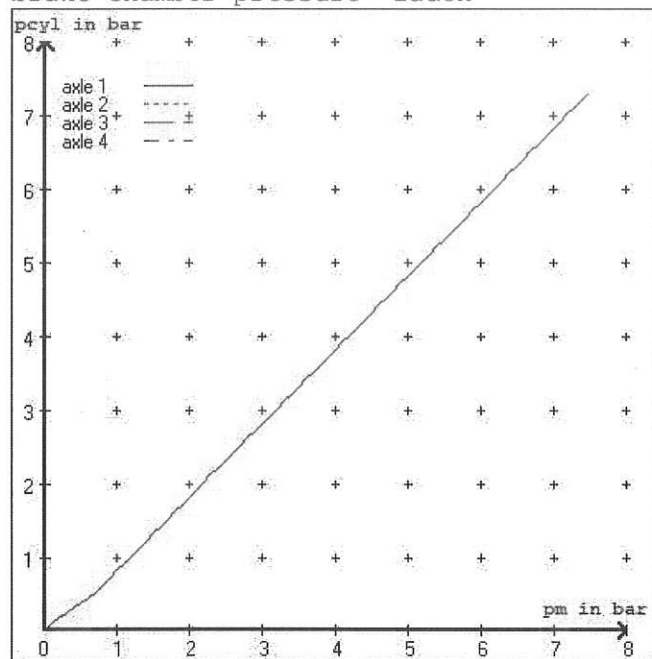
WABCO

or 480 207 2.. 0

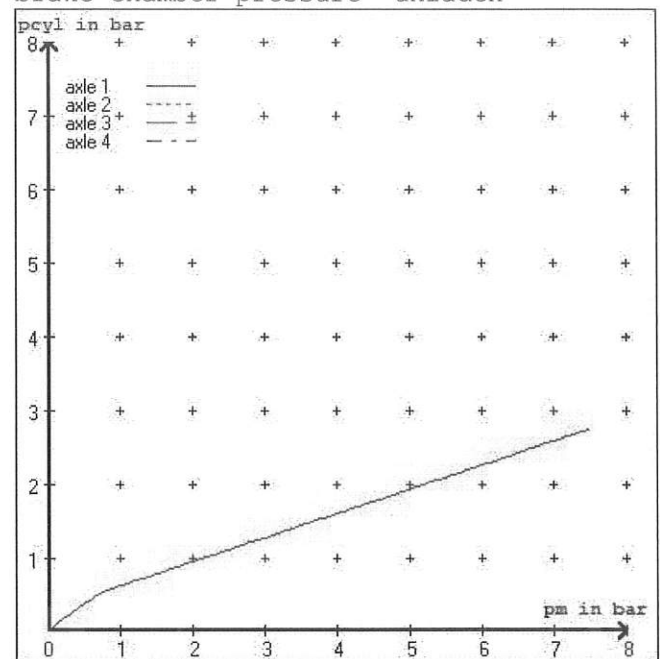
brake cylinder: Haldex 125 160 0.. - 125 160 5.. / 125 160 6.. - 125 160 9..

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4
at pm 3.5 bar =>	pcha in bar :	3.3	3.3	3.3	3.3
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3	axle4
at pm 1.1 bar =>	pcha in bar :	0.9	0.9	0.9	0.9

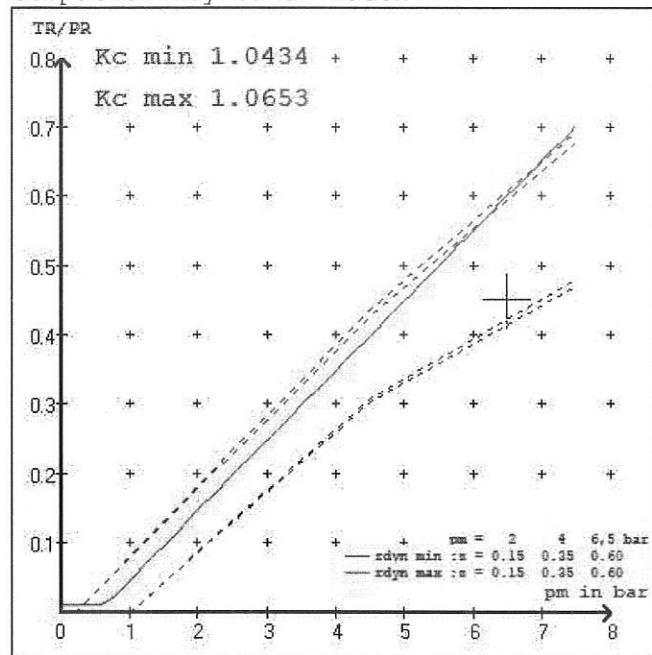
brake chamber pressure laden



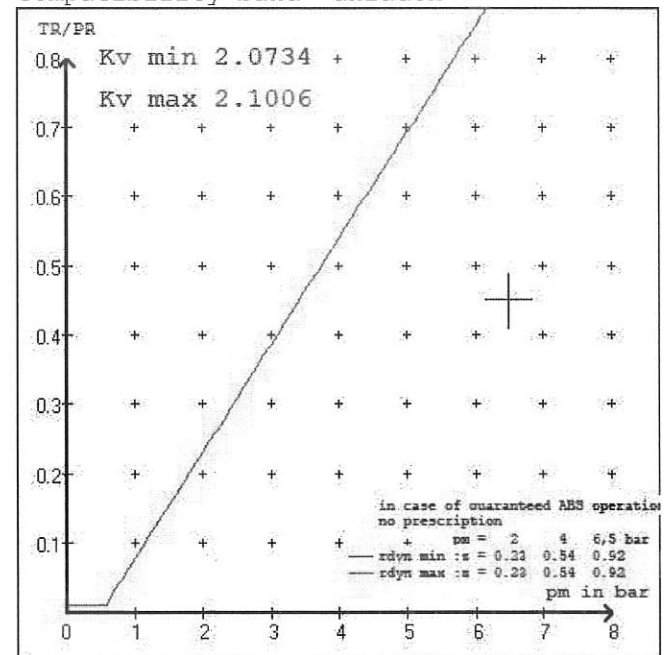
brake chamber pressure unladen



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 16/24 (Haldex) lever length 74 mm
 axle 2 : 2 x type/diameter 16/24 (Haldex) lever length 74 mm
 axle 3 : 2 x type/diameter 16" (Haldex) lever length 74 mm
 axle 4 : 2 x type/diameter 16" (Haldex) lever length 74 mm

brake diagram : 841 701 050 0

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

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vehicle manufacturer: DOMETT TRAILERS
 trailer model : 4AS PLATFORM
 trailer type : 4-axle-semi-trailer
 brake calculation no. : TP 53160S

tire circumference main axle : 3025 for rdyn max
 tire circumference auxiliary axle : 3025 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.	2.4	6500	to be entered by the vehicle manufact.	0.5	1.8	6.3	
2	1400		2.4	6500		0.5	1.8	6.3	
3	1400		2.4	6500		0.5	1.8	6.3	
4	1400		2.4	6500		0.5	1.8	6.3	
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 pcy1	axle load pcy1	axle load pcy1	axle load pcy1
1400 2.4	1400 2.4	1400 2.4	1400 2.4
1900 2.8	1900 2.8	1900 2.8	1900 2.8
2400 3.2	2400 3.2	2400 3.2	2400 3.2
2900 3.5	2900 3.5	2900 3.5	2900 3.5
3400 3.9	3400 3.9	3400 3.9	3400 3.9
3900 4.3	3900 4.3	3900 4.3	3900 4.3
4400 4.7	4400 4.7	4400 4.7	4400 4.7
4900 5.1	4900 5.1	4900 5.1	4900 5.1
6500 6.3	6500 6.3	6500 6.3	6500 6.3

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 518	date : GA140710
axle 2 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 518	date : GA140710
axle 3 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 518	date : GA140710
axle 4 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M13)
test report : 361-071-04 ECE Re 518	date : GA140710

calc. verif. of residual (hot) braking force type III
(item 4.2.1 of appendix 2 to annex 11)

axle 1	(rdyn 480 mm)	T = 17.7 % Fe
axle 2	(rdyn 480 mm)	T = 17.7 % Fe
axle 3	(rdyn 480 mm)	T = 17.7 % Fe
axle 4	(rdyn 480 mm)	T = 17.7 % Fe

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

axle 1	(sp = 52 mm)	s = 37 mm
axle 2	(sp = 52 mm)	s = 37 mm
axle 3	(sp = 52 mm)	s = 37 mm
axle 4	(sp = 52 mm)	s = 37 mm

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

axle1	ThA = 6118 N
axle2	ThA = 6118 N
axle3	ThA = 6118 N
axle4	ThA = 6118 N

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix 2 to annex 11)

axle 1	(rdyn 480 mm)	T = 40716 N
axle 2	(rdyn 480 mm)	T = 40716 N
axle 3	(rdyn 480 mm)	T = 40716 N
axle 4	(rdyn 480 mm)	T = 40716 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	0.64

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 480 mm)	T = 40716 N
axle 2	(rdyn 480 mm)	T = 40716 N
axle 3	(rdyn 480 mm)	T = 40716 N
axle 4	(rdyn 480 mm)	T = 40716 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	0.64

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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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 (M18)
test report : 361-071-04 ECE Re 518	date : GA170711
axle 2 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M18)
test report : 361-071-04 ECE Re 518	date : GA170711
axle 3 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M18)
test report : 361-071-04 ECE Re 518	date : GA170711
axle 4 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR 8616 AF (M18)
test report : 361-071-04 ECE Re 518	date : GA170711

calc. verif. of residual (hot) braking force type III
(item 4.2.1 of appendix 2 to annex 11)

axle 1	(rdyn 480 mm)	T = 17.7 % Fe
axle 2	(rdyn 480 mm)	T = 17.7 % Fe
axle 3	(rdyn 480 mm)	T = 17.7 % Fe
axle 4	(rdyn 480 mm)	T = 17.7 % Fe

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

axle 1	(sp = 52 mm)	s = 38 mm
axle 2	(sp = 52 mm)	s = 38 mm
axle 3	(sp = 52 mm)	s = 38 mm
axle 4	(sp = 52 mm)	s = 38 mm

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

axle1	ThA = 6118 N
axle2	ThA = 6118 N
axle3	ThA = 6118 N
axle4	ThA = 6118 N

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix 2 to annex 11)

axle 1	(rdyn 480 mm)	T = 30228 N
axle 2	(rdyn 480 mm)	T = 30228 N
axle 3	(rdyn 480 mm)	T = 30228 N
axle 4	(rdyn 480 mm)	T = 30228 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)
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axle 1	(rdyn 480 mm)	T = 30228 N
axle 2	(rdyn 480 mm)	T = 30228 N
axle 3	(rdyn 480 mm)	T = 30228 N
axle 4	(rdyn 480 mm)	T = 30228 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)
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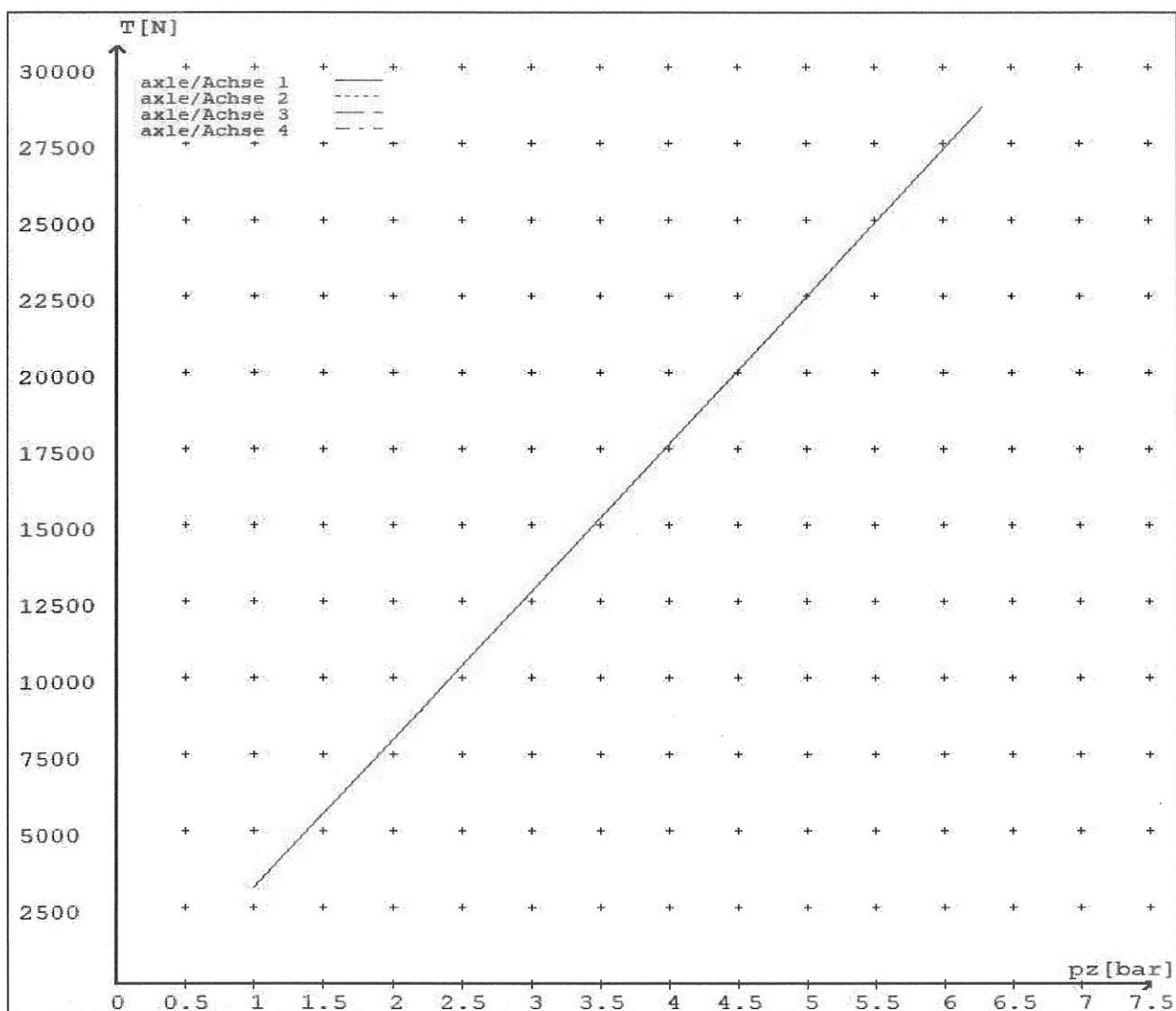
reference values

reference values for z = 45% for max rdyn: 480 mm

	pz [bar]	T [N]	T [N]
axle 1	1.0 6.3	3123 28699	
axle 2	1.0 6.3	3123 28699	
axle 3	1.0 6.3	3123 28699	
axle 4	1.0 6.3		3123 28699

VIN - no.:

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



reference values for $z = 0.45$

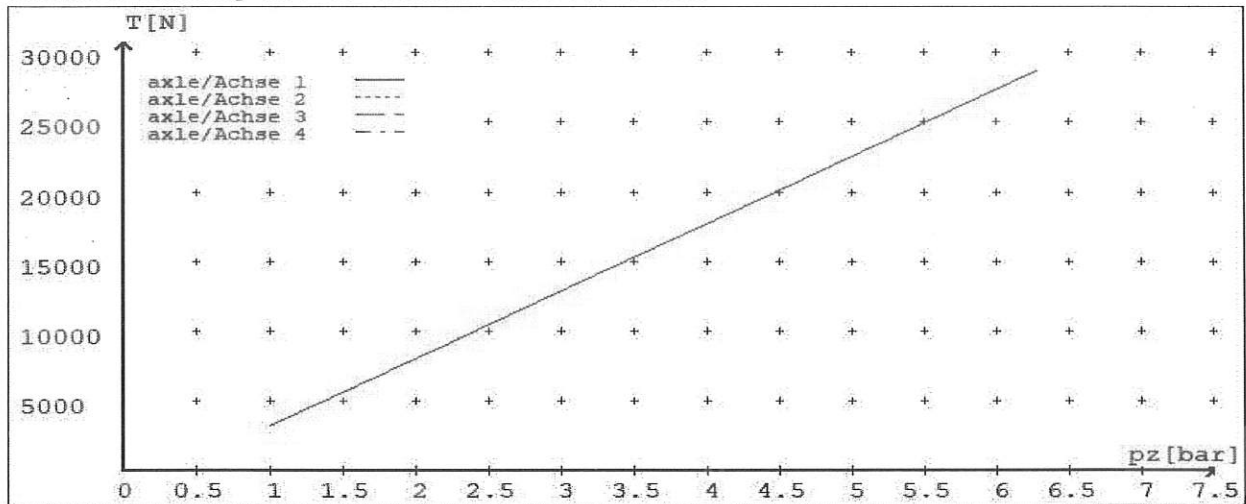
Angabe der Referenzwerte für $z = 0.45$

for max rdyn: 480 mm

für max rdyn: 480 mm

brake calculation no: TP 53160S date 24.07.2026

Bremsberechnung Nr: TP 53160S vom 24.07.2026



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



NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015
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 #:	JH260725
YEAR:	2026	CALCULATION #:	TP53160
MAKE:	DOMETT	REGO #:	N/A
MODEL:	D1502	LT400 #:	H22384
CHASSIS #:	2578	ORDER #:	11506
VIN #:	7A9D15026T2023578		
GVM: <i>t</i>	42	PRIME MOVER:	UNKNOWN
LOAD CONFIGURATION:	UNIFORM DENSITY		
GROUP RATINGS: <i>t</i>	FRONT	REAR	
	16	26	
WHEEL BASE: <i>m</i>	9.2		
	UNLADEN COG <i>m</i>	MAX HEIGHT <i>m</i>	HEIGHT DECK <i>m</i>
	0.8	4.3	1.325
COG: <i>m</i>	2.379		
	FRONT	REAR	TOTAL
TARE: <i>t</i>	2.3	5.6	7.9
		REAR	
TYRE SIZE:		385 55 R22.5	
ROLLING CIRCUMFERENCE: <i>mm</i>		3016	
AXLE SPACING: <i>m</i>		4	

BRAKE & AXLE DETAILS

AXLE:	MAKE	MODEL	TEST REPORT
	ROR_ASSALI_STEFEN	ROR-CS9 I DISC	361-071-04
STEER AXLE[S]:	YES	POLE WHEEL:	100
LINING MATERIAL:	ROR 8616	BRAKE FACTOR:	20.26
SENSED AXLES:	# 2 + # 4	NOTES:	
SERIAL NUMBERS:	1		ROR CS9T
	2		ROR CS9T
	3		ROR CS9T
	4		ROR CS9T

CHAMBER AND VALVING DETAILS

CHAMBERS:	AXLE 1 & 2	AXLE 3 & 4	
BRAND:	HALDEX_CHAMBERS	HALDEX_CHAMBERS	
SIZE:	1624 (175 1624)	16, (125 160)	
STROKE: mm	65	65	
TEST REPORT #:	BC0165.2	BC0169.2	
SPRINGBRAKE FORCE: kN	6.003	N/A	
HOLDOFF PRESSURE: Bar	5.2	N/A	
FOUNDATION BRAKE:	MERITOR	MERITOR	
LEVER LENGTH: mm	74	74	
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:	PNEUMATIC
MAKE:	ROR_AIRSPRING
MODEL:	ROR_INTRA
BELLOW SIZE:	CS9I
HEIGHT CONTROL VALVE:	HALDEX 90554950
OTHER VALVES:	N/A
RIDE HEIGHT <i>mm</i> :	305 (380)
HANGER HEIGHT <i>mm</i> :	175 (225)
PEDESTAL HEIGHT <i>mm</i> :	8 (50)
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

HEAVY VEHICLE BRAKES - 32015 (TRAILER)☒ SCHEDULE 5☐ SCHEDULE 4☐ SECTION 6☐ APPROVED STD**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: 30.06.2026

FILES CREATED: 23.07.2026

FILES SENT TO CJC (SoDC): 28.09.2026

INCLUDES DOM/BSLK; SCHEMATIC AVAILABLE IN CERTIFICATION FILE

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:

30/09/2026

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