

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

CHRIS CLARKE

ID

CJC

Vehicle registration (optional)

VIN/chassis number

7 A 9 E 2 5 0 1 7 J 1 0 2 3 7 9 4

Make **DOMETT TRAILERS**

Component being certified:

Chassis

Load anchorage

Model (optional)

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 32015/4

RSS ON: TWIN TYRES / SUPER SINGLES

SIZE = 215 75 R 17.5

Code/standard/rule certified to

LTR 32015/4

Component load rating(s)

32 Tonnes GVM

35 Tonnes (Group ratings)

General drawing number(s)

N/A

Supporting documents

BRAKE CODE CERTIFICATE JH181214

BRAKE CALCULATION # TP51813

Special conditions (optional)

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

Certification expiry date (if applicable)

N/A [UNLESS MODIFIED]

or

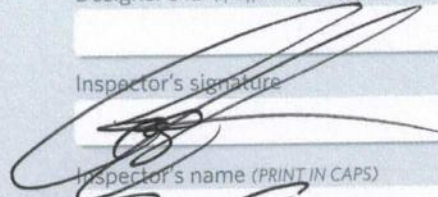
Hubodometer reading (whichever comes first)

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

13-Dec-18

Number

664975

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	2018-07-11	Serial number	437005657400K
Serial number (modulator)	000000506225		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2018-12-13 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

WABCO		TRAILER EBS-E		GGVS/ADR TUEH TB 2007 - 019.00 361-037-08											
HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT TRAILERS			GIO	Pin1	Pin3	Pin4								
TYP TYPE TYPE	5AFT STOCK			1	ALS2	ALS2	LS2								
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9E25017J1023794			2	eTASC2	---	eTASC2								
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP51813A			3	eTASC	---	eTASC								
POLRADZÄHNEZAHL c-d e-f POLY WHEEL TEETH c-d e-f DENTS ROUE DENTÉE c-d e-f	80	80	ABS-System ABS-System Système ABS	4	---	---	LS1								
RSS RSS RSS	Einfachbereifung Single Tire Monte simple	Lenkachse Steering axle Essieu Viseur	4S/3M	5	DIAG	DIAG	DIAG								
	Zwillingsbereifung Twin Tire Monte jumelée	Kippkritisches Fahrzeug Critical Trailer Véhicule critique		6	---	---	---								
Subsystems	SB	I/O	24N	7	---	---	---								
pm (bar)		6.5	pm (bar)	0.8	2.0	---	6.5	TYP TYPE		(mm)	(mm)	(bar)			
1.0			1.0					---				1.0	Pz		
TR (daN)			TR (daN)					---				---			
ACHSE AXLE ESSIEU	+	+	+	+	+	+	+	+	+	+	+	+	+		
1	2100	1.0	2.1	8000	5.1	0.4	1.3	---	6.1	-	20	65	69	518	4360
2	2100	1.0	2.1	8000	5.1	0.4	1.3	---	6.1	-	20	65	69	518	4360
3	1900	0.9	1.8	6350	3.9	0.3	1.4	---	4.8	-	14 / 16	64	69	498	2826
4	1900	0.9	1.8	6350	3.9	0.3	1.4	---	4.8	-	14 / 16	64	69	498	2826
5	1900	0.9	1.8	6350	3.9	0.3	1.4	---	4.8	-	14	64	69	498	2826

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	7A9E25017J1023794
Vehicle type	5AFT STOCK	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke	Signature	
Date	2018-12-13 4:30:20 p.m.		

trailer (full, semi-, centre-axle) with air brake system acc. to 71/320/EEC, last amended by 98/12/EC and 2006/96/EC

distribution: DOMETT TRAILERS
7A9E25017J1023794
SODC: JH181214
LT400: CJC 664975

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!
WABCOBrake V6.14.04.20 db 03.11.2017

vehicle manufacturer: DOMETT TRAILERS
trailer model : 5AFT STOCK
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
EC w.o.annexVII
WABCO TRAILER - EBS E
TRISTOP 3+4: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED - SEE PAGE 6 FOR PERFORMANCE DATA]
215/75 R 17,5 - 235/75 R 17,5

axle 1 + 2 + 3 + 4 + 5 : IMT, WABCO PAN-17, 361-037-08 ECE,

		<u>unladen</u>	<u>laden</u>
total mass	P in kg	9900	35050
axle 1	P1 in kg	2100	8000
axle 2	P2 in kg	2100	8000
axle 3	P3 in kg	1900	6350
axle 4	P4 in kg	1900	6350
axle 5	P5 in kg	1900	6350
wheel base	E in mm	7400 - 7900	
centre of gravity height	h in mm	1050	2280

		<u>axle 1</u>	<u>axle 2</u>	<u>axle 3</u>	<u>axle 4</u>	<u>axle 5</u>
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	[-]	19.98	19.98	19.98	19.98	19.98
dyn. rolling radius	rdyn min in mm	373	373	373	373	373
dyn. rolling radius	rdyn max in mm	387	387	387	387	387
threshold torque	Co Nm	3.4	3.4	3.4	3.4	3.4

calculation:

chamber pressure(rdyn min)pH at z=22,5%bar	2.2	2.2	2.1	2.1	2.1	
chamber pressure(rdyn max)pH at z=22,5%bar	2.3	2.3	2.1	2.1	2.1	
chamber press.(servo)pcha at pm6,5bar bar	6.1	6.1	4.8	4.8	4.8	
piston force ThA at pm6,5bar N	7071	7071	4586	4586	4586	
brake force(rdyn min)T lad. at pm6,5bar N	52992	52992	34350	34350	34350	
brake force(rdyn max)T lad. at pm6,5bar N	51104	51104	33130	33130	33130	
brake force within 1 % rolling friction proportion	%	22.3	22.3	18.5	18.5	18.5

braking rate z laden 0.608 for rdyn min
z = sum (TR)/PRmax 0.586 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: Meritor 1424HTLD64

axle 4:

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

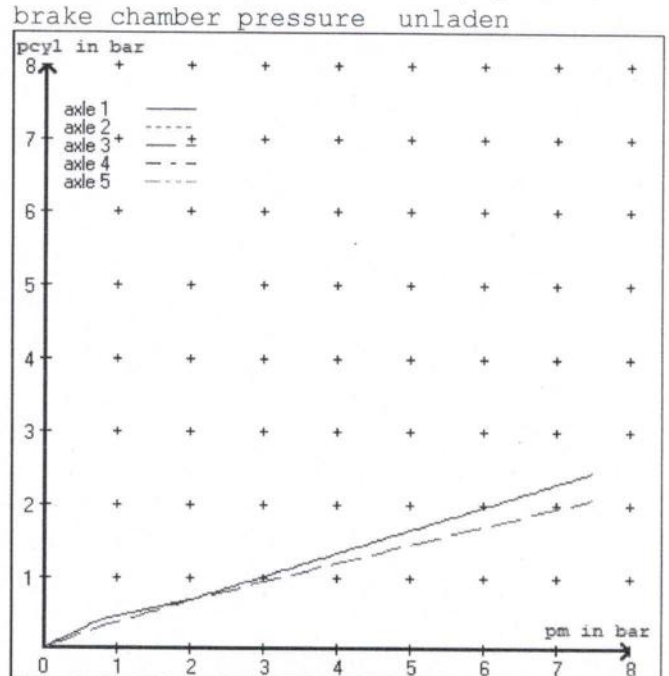
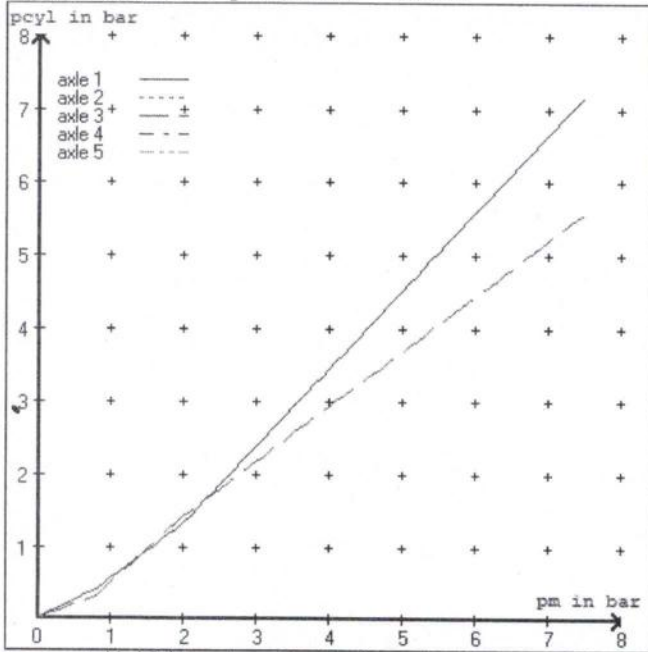
brake cylinder: Meritor 1424HTLD64

axle 5:

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

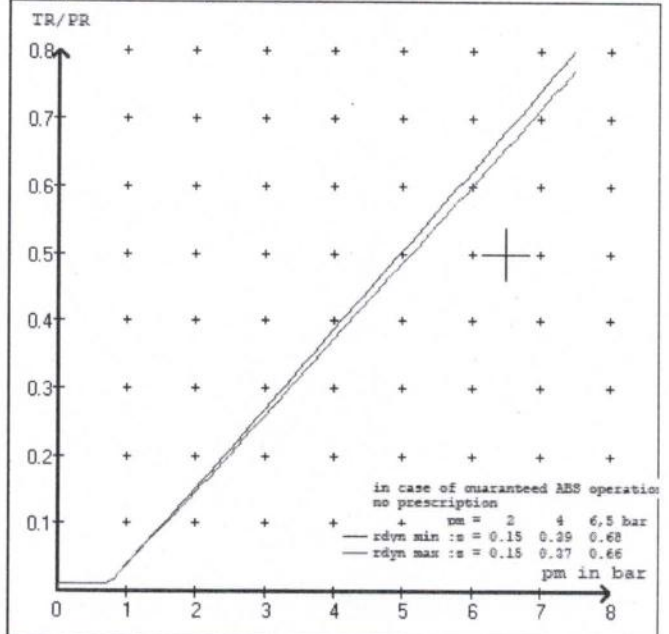
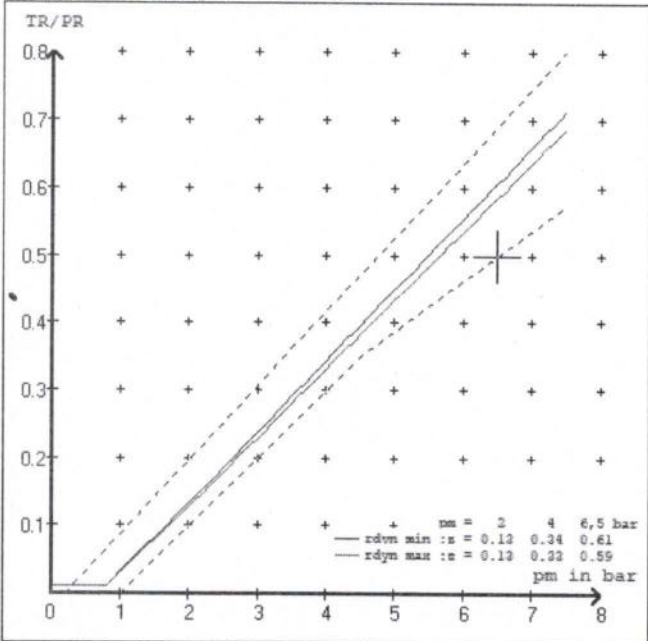
brake cylinder: Meritor 14HSCLD64

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3	axle4	axle5	
at pm 3.6 bar =>	pcha in bar :	3.0	3.0	2.6	2.6	2.6	2.6
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	0.7	0.7	0.7	0.7



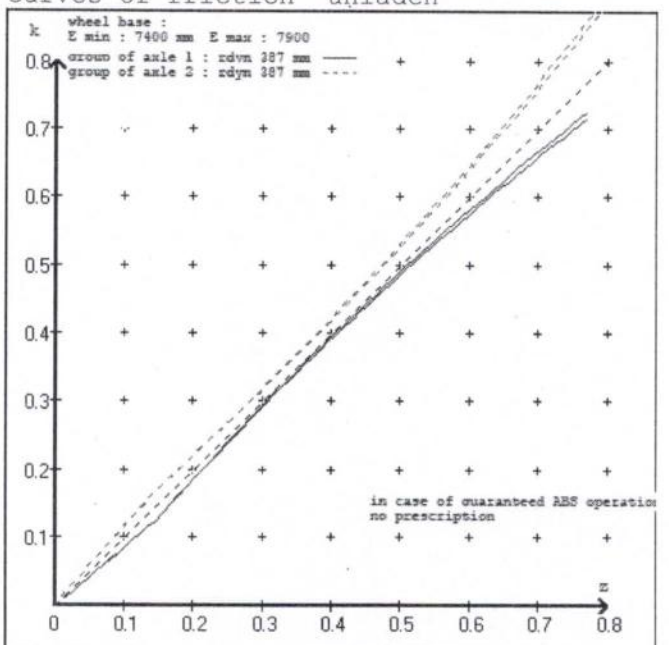
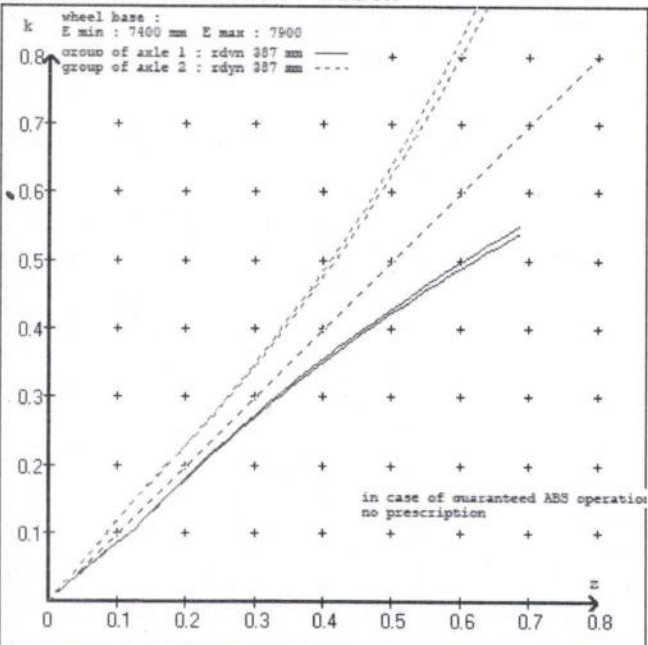
compatibility band laden

compatibility band unladen



curves of friction laden

curves of friction unladen



vehicle manufacturer: DOMETT TRAILERS
 trailer model : 5AFT STOCK
 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 STOCK
 trailer type : 5-axle-full-trailer
 brake calculation no. : TP 51813A

tire circumference main axle : 2425 for rdyn max
 tire circumference auxiliary axle : 2425 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	2100	to be	2.1	8000	to be	0.4	1.3	6.1	
2	2100	entered by the vehicle manufact.	2.1	8000	entered by the vehicle manufact.	0.4	1.3	6.1	
3	1900		1.8	6350		0.3	1.4	4.8	
4	1900		1.8	6350		0.3	1.4	4.8	
5	1900		1.8	6350		0.3	1.4	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.

=====

axle 1	axle 2	axle 3	axle 4	axle 5
axle load	axle load	axle load	axle load	axle load
pcyl	pcyl	pcyl	pcyl	pcyl
2100	2100	1900	1900	1900
2.1	2.1	1.8	1.8	1.8
2600	2600	2400	2400	2400
2.4	2.4	2.1	2.1	2.1
3100	3100	2900	2900	2900
2.8	2.8	2.5	2.5	2.5
3600	3600	3400	3400	3400
3.1	3.1	2.8	2.8	2.8
4100	4100	3900	3900	3900
3.5	3.5	3.1	3.1	3.1
4600	4600	4400	4400	4400
3.8	3.8	3.5	3.5	3.5
5100	5100	4900	4900	4900
4.1	4.1	3.8	3.8	3.8
5600	5600	5400	5400	5400
4.5	4.5	4.2	4.2	4.2
8000	8000	6350	6350	6350
6.1	6.1	4.8	4.8	4.8

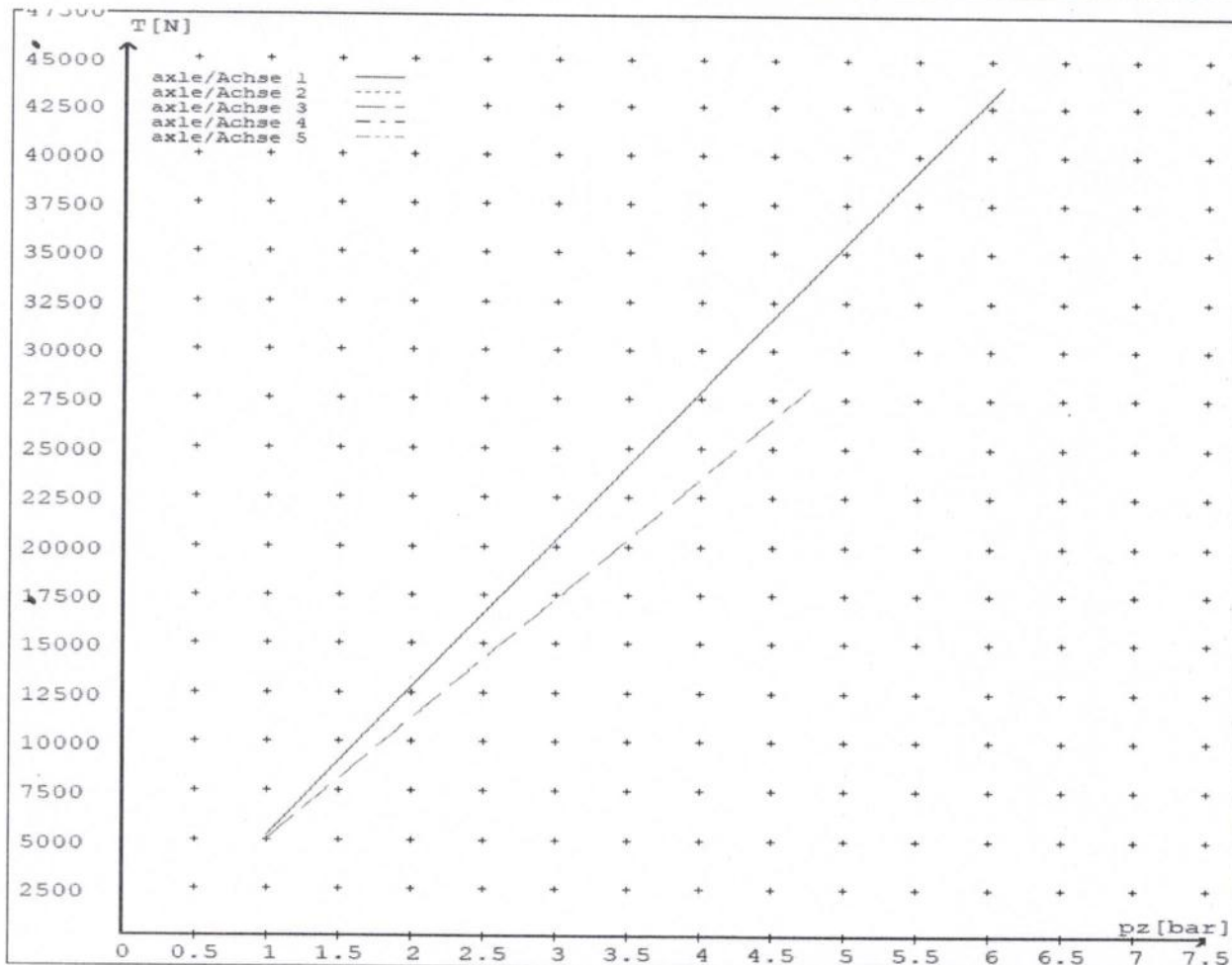
reference values

reference values for z = 50% for max rdyn: 387 mm

	pz [bar]	T [N]	T [N]
axle 1	1.0	5186	
	6.1	43604	
axle 2	1.0	5186	
	6.1	43604	
axle 3	1.0		4987
	4.8		28268
axle 4	1.0		4987
	4.8		28268
axle 5	1.0		4987
	4.8		28268

VIN - no.:

brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	Axle(s) / Achse(n)				
		20./	20./	T.14/24	T.14/24
Maximum stroke smax = ...mm maximaler Hub smax =mm	65	65	64	64	64
Lever length =mm Hebellänge =mm	69.4	69.4	69.4	69.4	69.4



reference values for $z = 0.5$

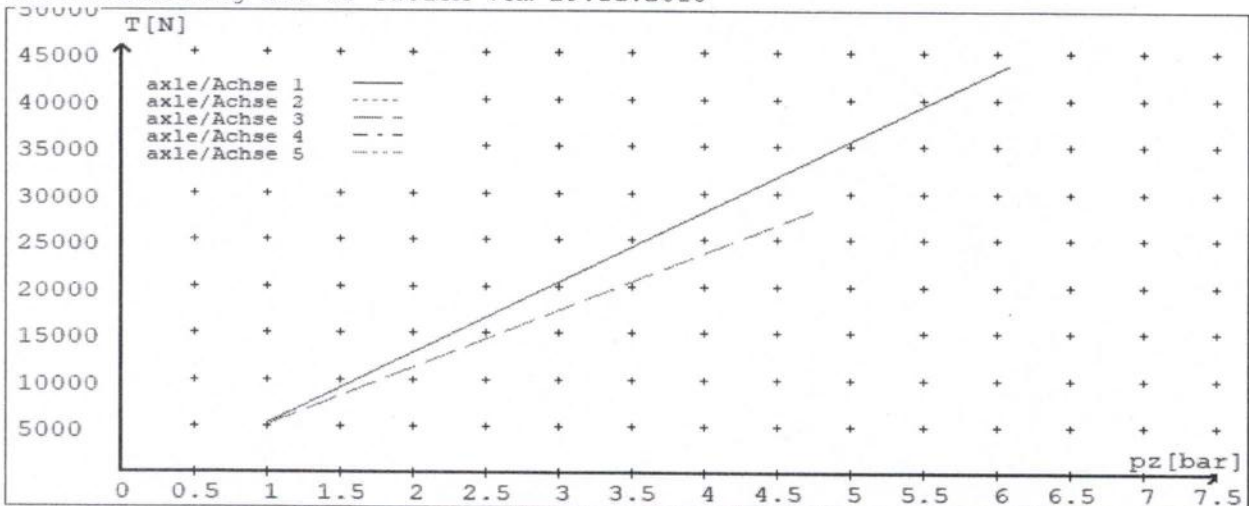
for max rdyn: 387 mm

Angabe der Referenzwerte für $z = 0.5$

für max rdyn: 387 mm

brake calculation no: TP 51813A date 29.11.2018

Bremsberechnung Nr: TP 51813A vom 29.11.2018



	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	20./	20./	T.14/24	T.14/24	14./
Maximum stroke $s_{max} = \dots$ mm maximaler Hub $s_{max} = \dots$ mm	65	65	64	64	64
Lever length = \dots mm Hebellänge = \dots mm	69.4	69.4	69.4	69.4	69.4

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)



**HEAVY VEHICLE BRAKE RULE
32015/4 WORKSHEET
(PROCEDURE DOCUMENTATION SHEET-PDS)
&
CONFIRMATION OF COMPLIANCE**

CERTIFICATE NO. **JH181214**

CUSTOMER NAME **DOMETT TRAILERS LTD**

CUSTOMER ORDER NO. **6021** DATE RECEIVED **13-Dec-18**

VEHICLE TYPE **STOCK TRAILER**

VIN/ CHASSIS NO. **7 A 9 E 2 5 0 1 7 J 1 0 2 3 7 9 4**

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

<u>BRAKE VALVES</u>	<u>MAKE</u>	<u>TYPE</u>
PRIMARY RELAY	WABCO	480 102 08. 0
SECONDARY RELAY	WABCO	480 207 202 0
YARD RELEASE VALVE	SEALCO	17600B
PARK BRAKE VALVE	SEALCO	110701
<u>SUSP. VALVES [WABCO]</u>	<u>FRONT</u>	<u>REAR</u>
CONTROL	463 090 500 0	463 090 500 0
DISTANCE SENSOR	441 050 100 0	441 050 100 0

OTHER VALVES:

MAKE: <u>WABCO</u>	TYPE: <u>441 044 101 0</u>	SETTING: <u>PRESS. SENSOR</u>
MAKE: <u>WABCO</u>	TYPE: <u>446 192 110 0</u>	SETTING: <u>SMARTBOARD</u>
MAKE: <u>WABCO</u>	TYPE: <u>461 513 002 0 (PEM)</u>	SETTING: <u>5.5 Bar</u>
MAKE: _____	TYPE: _____	SETTING: _____

CONFORMATION OF COMPLIANCE

I CONFIRM THAT THE VEHICLE IDENTIFIED IN PAGES 1 AND 2 OF THIS CONFORMATION OF COMPLIANCE COMPLIES WITH ALL RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/4, SCHEDULE 5.

DATE: 13-Dec-18

SIGNED: (pp)



NAME & ID: J HIRST (JEH)

PHONE (BUS): 09 980 7300

FAX (BUS) 09 980 7306

POSTAL ADDRESS: TRANSPORT SPECIALTIES LTD
PO BOX 98-971,
MANUKAU CITY,
MANUKAU 2241

POSITION: BRAKE CERTIFIER HVEK

I CONFIRM THE BRAKE SYSTEM OF THE VEHICLE IDENTIFIED IN PAGE 1 OF THIS STATEMENT OF COMPLIANCE AS MODIFIED BY MYSELF, CONTINUES TO COMPLY WITH ALL THE RELIVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY BRAKE RULE 32015/4 SCHEDULE 5.

DATE:

SIGNED:

NAME:

CERTIFIERS ID:

POSITION:

PHONE (BUS):

FAX (BUS):

COMMENTS:
