

Heavy vehicle specialist certificate

Must be presented to a CoF (heavy) inspecting organisation
Heavy vehicle specialist inspector and inspecting organisation

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

CHRIS' CLARKE

ID

CJC

Vehicle registration (*optional*)

VIN/chassis number

7A9E10010H1023572

Make

DOMETT

Model (*optional*)

Component being certified:

 Chassis

 Load anchorage

Certification category

HVEK
 Log bolsters

 Towing connection

 Brakes

 SRT

 PSV stability

 PSV rollover

 Swept path

 PBS

Description of work

CERTIFY TO HEAVY VEHICLE BRAKE RULE 32015/4.
NEW ZEALAND HEAVY VEHICLE BRAKE SPECIFICATION.

Code/standard/rule certified to

SCHEDULE 5

Component load rating(s)

GVM 30,000 Kgs

General drawing number(s)

N/A
BRAKES 35,200 Kgs

Supporting documents

BRAKE CODE CERTIFICATE LC170304

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*)

UNTIL MODIFIED or CHANGE OF USE
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

C J C

Date

4-Apr-17

Number

584389

CoF vehicle inspector ID

CoF vehicle inspector signature

Date

All fields are mandatory unless otherwise stated.

WABCO**START-UP LOG**

System	Trailer EBS-E	WABCO part number	480 102 064 0
Production date	2015-09-16	Serial number	436013103500J
Serial number (modulator)	000000108842		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2017-04-04 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		

WABCO		TRAILER EBS-E			GGVS/ADR TUEH TB 2007 - 019.00 TDB0870										
HERSTELLER MANUFACTURER CONSTRUCTEUR	DOMETT T&T														
TYP TYPE TYPE	5AFT TANKER														
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9E10010H1023572														
BREMSEBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP2017 SAF NEW														
POLARDÄHNEZAHL 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	X	Lenkachse Steering axle Essieu virant												
Zwillingsbereifung Twin Tire Monte jumelée		X	Kippkräftiges Fahrzeug Critical Trailer Véhicule critique												
Subsystems	---	I/O	24N												
	pm (bar)	6.5	pm (bar)	0.8	2.0	---	6.5	(bar)							
ACHSE AXLE ESSIEU								1.0 Pz							
1	1400	0.5	1.5	8000	5.1	0.4	1.3	---	5.8	-	18	65	69	506	3799
2	1400	0.5	1.5	8000	5.1	0.4	1.3	---	5.8	-	18	65	69	506	3799
3	1100	0.3	1.2	6400	3.9	0.3	1.4	---	4.6	-	14 / 16	64	69	500	2781
4	1100	0.3	1.2	6400	3.9	0.3	1.4	---	4.6	-	14 / 16	64	69	500	2781
5	1100	0.3	1.2	6400	3.9	0.3	1.4	---	4.6	1	14	64	69	500	2781

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 T&T	Vehicle ident. no	7A9E10010H1023572
Vehicle type	5AFT TANKER	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke	Signature	
Date	2017-04-04 2:25:45 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: DOMETTS
2017, 5A, SAF,
NEW TANKER
SAF CALIPERS

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 command to do a braking harmonisation!
WABCOBrake V6.14.04.20 db 20.04.2016

vehicle manufacturer: DOMETTS
trailer model : 2017 5A TANKER, E1001 SAF
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
EC w.o. annexVII
WABCO TRAILER - EBS
TRISTOP 3+4: T.14/24
265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : SAF, SBS 1918, TDB 0870 ext01 ECE,

			unladen	laden
total mass	P in kg		6100	35200
axle 1	P1 in kg		1400	8000
axle 2	P2 in kg		1400	8000
axle 3	P3 in kg		1100	6400
axle 4	P4 in kg		1100	6400
axle 5	P5 in kg		1100	6400
wheel base	E in mm	5700	5700	
centre of gravity height	h in mm		900	1524

	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
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	18.	18.	T.14/24	T.14/24	14.
lever length	1Bh in mm	76	76	76	76
brake factor	[-]	22.37	22.37	22.37	22.37
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	2.2	2.2	2.0	2.0	2.0
chamber pressure(rdyn max)pH at z=22,5%bar	2.2	2.2	2.0	2.0	2.0
chamber press. (servo)pcha at pm6,5bar bar	5.8	5.8	4.6	4.6	4.6
piston force ThA at pm6,5bar N	6172	6172	4385	4385	4385
brake force(rdyn min)T lad. at pm6,5bar N	49996	49996	35408	35408	35408
brake force(rdyn max)T lad. at pm6,5bar N	49996	49996	35408	35408	35408
brake force within 1 % rolling friction proportion	%	21.2	21.2	19.2	19.2

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

0.597 for rdyn min
0.597 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 18HSCLD64

axle 2:

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

brake cylinder: Meritor 18HSCLD64

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

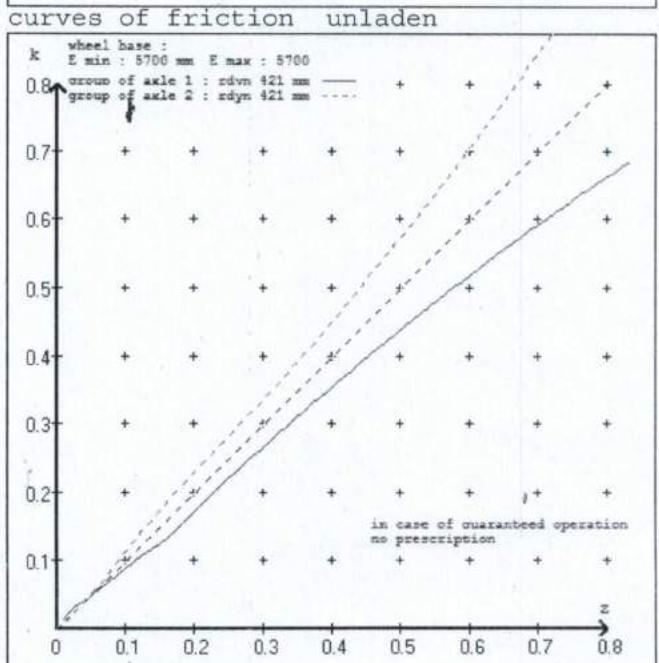
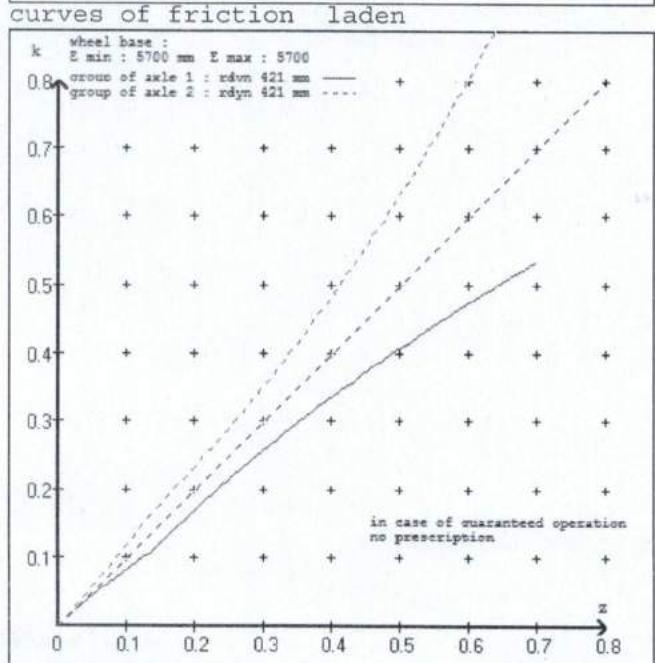
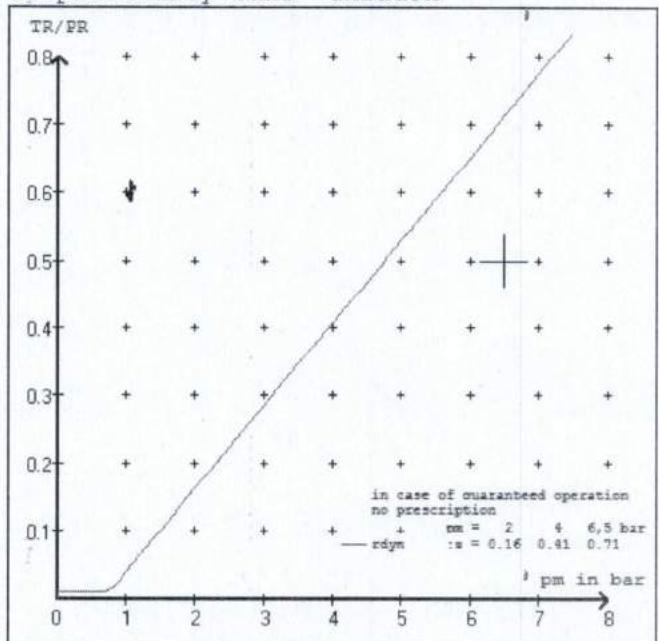
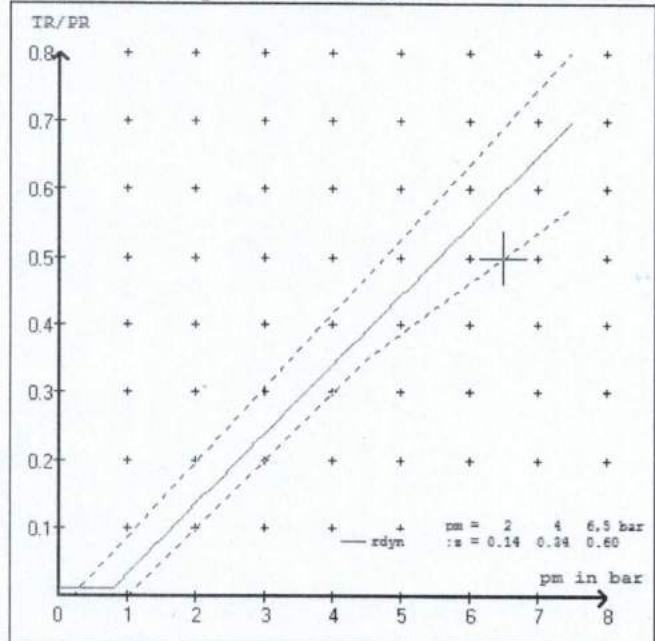
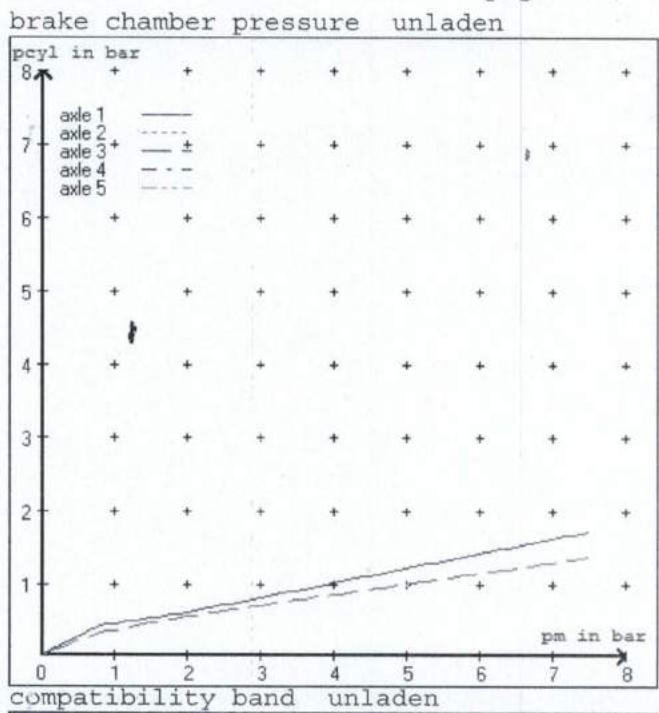
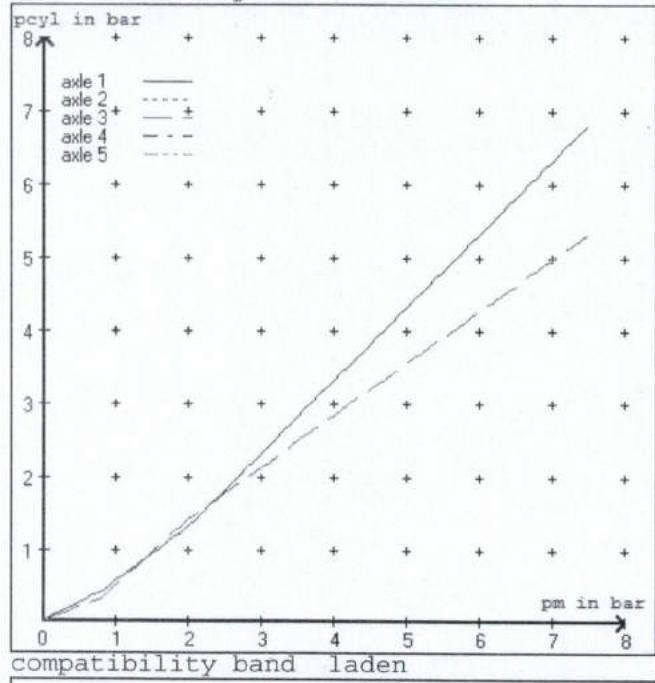
brake cylinder: Meritor 1424HTLD64

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 : 2.9 2.9 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 0.7 0.7 0.7



vehicle manufacturer: DOMETTS
trailer model : 2017 5A TANKER, E1001 SAF
trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter 18. (Meritor) lever length 76 mm
 axle 2 : 2 x type/diameter 18. (Meritor) lever length 76 mm
 axle 3 : 2 x type/diameter T.14/24 (Meritor) lever length 76 mm
 axle 4 : 2 x type/diameter T.14/24 (Meritor) lever length 76 mm
 axle 5 : 2 x type/diameter 14. (Meritor) lever length 76 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

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vehicle manufacturer: DOMETTS
trailer model : 2017 5A TANKER, E1001 SAF
trailer type : 5-axle-full-trailer
brake calculation no. : TP 2017A

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	1400	to be entered by the vehicle manufact.	1.5	8000	to be entered by the vehicle manufact.	0.4	1.3	5.8
2	1400		1.5	8000		0.4	1.3	5.8
3	1100		1.2	6400		0.3	1.4	4.6
4	1100		1.2	6400		0.3	1.4	4.6
5	1100		1.2	6400		0.3	1.4	4.6

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	pcyl	axle load	pcyl	axle load	pcyl
1400	1.5	1400	1.5	1100	1.2
1900	1.8	1900	1.8	1600	1.5
2400	2.2	2400	2.2	2100	1.8
2900	2.5	2900	2.5	2600	2.2
3400	2.8	3400	2.8	3100	2.5
3900	3.1	3900	3.1	3600	2.8
4400	3.5	4400	3.5	4100	3.1
4900	3.8	4900	3.8	4600	3.4
8000	5.8	8000	5.8	6400	4.6

spring parking brake

		axle 3	axle 4
no of TRISTOP-actuators per axle line KDZ		2	2
TRISTOP-actuator type		T.14/24	T.14/24
lever length	1Bh in mm	76	76
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	7605	7605
sp.brake chamber no Meritor.....		4	4
release pressure	pLs in bar	4.8	4.8

calculation:

ratio until road		4.2397	4.2397
iFb = 1Bh*Eta*C*rBt/(rBn*rstat)			
for rstat in mm		401	401
brake force of spring br. Tf in N		63816	63816
Tf = (TFZ*KDZ-2*Co/1Bh)*iFb			
braking rate	zf laden	0.380	
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

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

$$\text{min Ef} = 4325 \text{ mm} \quad \text{for } E = 5700 \text{ mm}$$

=====

$$\text{min Ef} = 4325 \text{ mm} \quad \text{for } E = 5700 \text{ mm}$$

=====

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 = 1524 mm height of center of gravity - laden
PR = 19200 kg maximum bogie mass - laden
P = 35200 kg maximum total mass - laden
nf = 2 no. of axle(s) with TRISTOP spring brake actuators
ng = 3 no. of bogie axle(s)

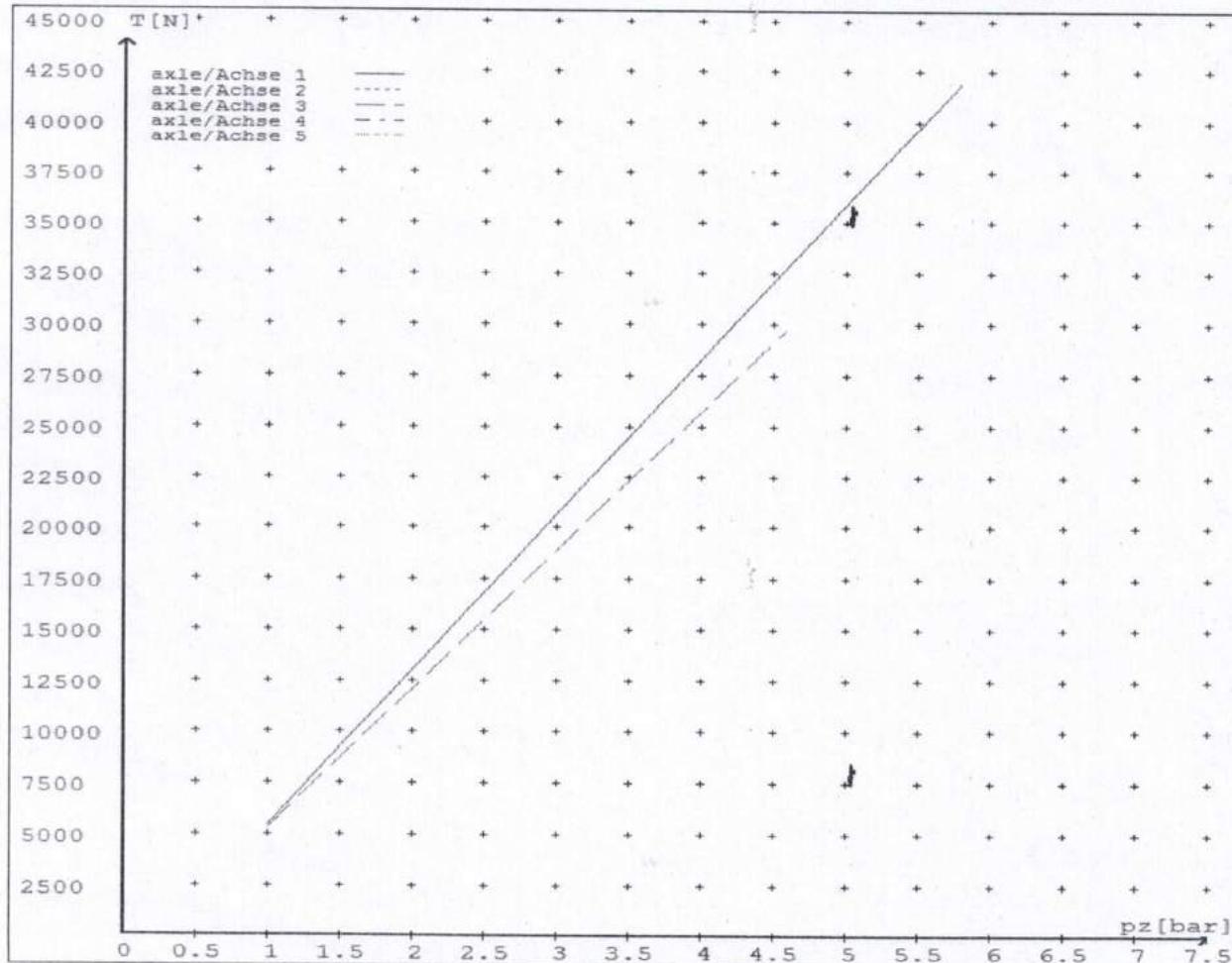
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0	5345	
	5.8	41873	
axle 2	1.0	5345	
	5.8	41873	
axle 3	1.0		5254
	4.6		29655
axle 4	1.0		5254
	4.6		29655
axle 5	1.0		5254
	4.6		29655

VIN - no.:

	Axe(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	18./	18./	T.14/24	T.14/24	14./
Maximum stroke smax = ...mm maximaler Hub smax =mm	64	64	64	64	64
Lever length =mm Hebellänge =mm	76	76	76	76	76



reference values for z = 0.5

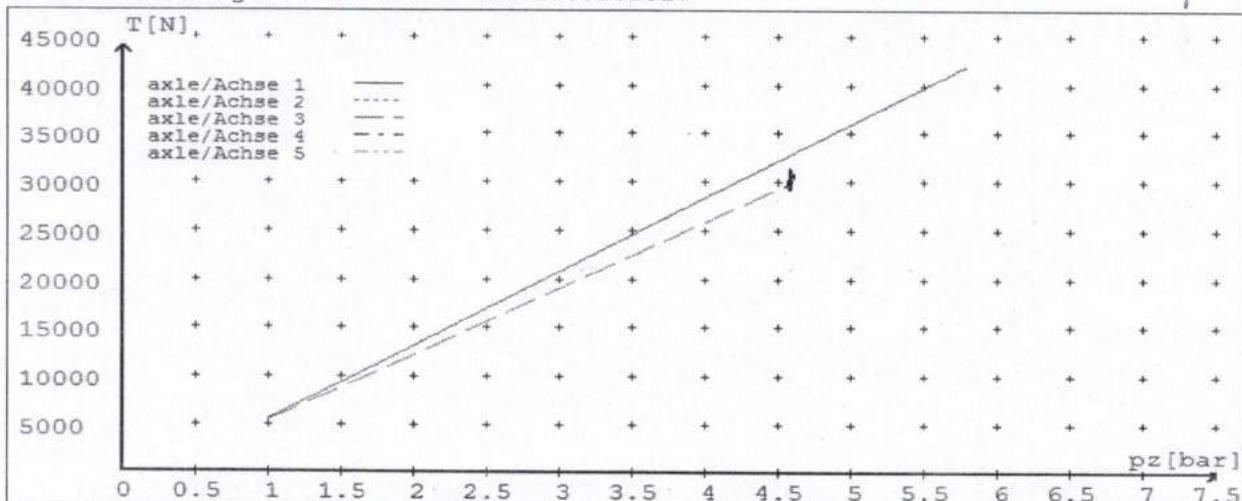
Angabe der Referenzwerte für z = 0.5

brake calculation no: TP 2017A date 17.02.2017

Bremsberechnung Nr: TP 2017A vom 17.02.2017

for max rdyn: 421 mm

für max rdyn: 421 mm



	Axe(s) / Achse(n)				
brake cylinder type (service / parking) Bremzylinder Typ (Betrieb / Fest)	18./	18./	T.14/24	T.14/24	14./
Maximum stroke smax =mm maximaler Hub smax =mm	64	64	64	64	64
Lever length =mm Hebellänge =mm	76	76	76	76	76

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

CERTIFICATE NO:

LC170304

CUSTOMER NAME:

DOMETT TRAILERS

CUSTOMER ORDER NO:

4720

DATE RECEIVED:

13/02/2017

VEHICLE TYPE:

FULL TANKER

VIN / CHASSIS NO:

7A9E10010H1023572

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

BRAKE VALVES:	MAKE	TYPE
PRIMARY RELAY:	WABCO	480 102 064 0
SECONDARY RELAY:	WABCO	480 207 001 0
SPRING BRAKE RELAY:	SEALCO	110701
PARK BRAKE VALVE:	SEALCO	17600B

LOCKED RATIO:

MAKE:

SETTING:

OTHER VALVES**OTHER VALVES**

MAKE:	TYPE	SETTING	

BRAKE CHAMBERS

	FRONT	REAR	5TH
MAKE:	TSE	TSE	TSE
SIZE:	18HSCLD65	1416HTLD64	14HSCLD64
STROKE: MM	65mm	64mm	64mm
SLACK LENGTH: MM	DISC	DISC	DISC

BRAKE CALIPERS**BRAKE CALIPERS:**

SAF

FRICITION MATERIAL: OEM Aftermarket**LINING BRAND****LINING BRAND****FRONT REAR**

SAF 607

SAF 607

OTHERS**TYRES:****FRONT****REAR**

265/70R 19.5

265/70R 19.5

COMMENTSEBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #

0

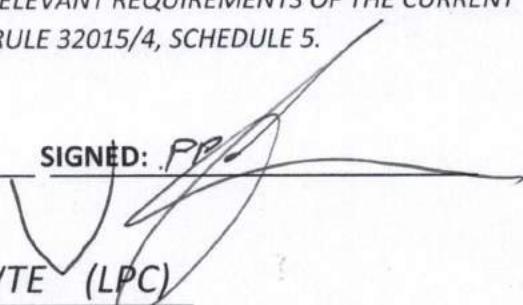
NOTES:

PACKING SLIP NO. _____ PROCESS TIME _____

CONFIRMATION OF COMPLIANCE

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

DATE: 4/04/2017

SIGNED: 

NAME & ID:

LANCE CAWTE (LPC)

PHONE (BUS): 09 980 7300 FAX (BUS): 03 3083277

POSTAL ADDRESS: TRANSPORT SPECIALTIES LTD

PO BOX 98-971,

MANUKAU CITY,

AUCKLAND 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 RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY BRAKE RULE 32015/4 SCHEDULE 5.

DATE: _____ SIGNED: _____

NAME: _____

CERTIFIERS ID: _____ POSITION: _____

PHONE (BUS): _____ FAX (BUS): _____

COMMENTS: _____

