

**WABCO****TRAILER EBS-E**GGVS/ADR TUEH TB 2007 - 019.00  
TDB 0749 ECE

HERSTELLER MANUFACTURER CONSTRUCTEUR	<b>DOMETT T&amp;T</b>		
TYP TYPE TYPE	<b>5AX F/T TANKER</b>		
FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS	<b>7A9E10012C1023905</b>		
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	<b>TP50674</b>		
POLRADZAHNEZAHL c-d   e-f POLE WHEEL TEETH c-d   e-f DENTS ROUE DENTÉE c-d   e-f	<b>90</b>	<b>90</b>	ABS-System ABS-System Système ABS <b>4S/3M</b>
RSS RSS RSS	Einfachbereifung Single Tyre Monte simple	Lenkachse Steering axle Essieu vireur	
	Zwillingsbereifung Twin Tyre Monte jumelée	<b>X</b>	Kippkritisches Fahrzeug Critical Trailer Véhicule critique
Subsystems	---		I/O

GIO	Pin1	Pin3	Pin4
1	---	---	---
2	---	---	---
3	ALS2	ALS2	---
4	---	---	---
5	DIAG	DIAG	DIAG
6	---	---	---
7	---	---	---



ACHSE AXLE ESSIEU	6.5			0.8				2.0		6.5		TYP TYPE	(mm)	(mm)	(bar)	
	pm (bar)	6.5	pm (bar)	0.8	2.0	---	6.5	pz	1.0	Pz						
1	1400	0.7	1.5	7250	4.8	0.3	1.4	---	5.8	-	14	64	69	493	3517	
2	1400	0.7	1.5	7250	4.8	0.3	1.4	---	5.8	-	14	64	69	493	3517	
3	1100	0.5	1.3	6600	4.3	0.3	1.4	---	5.4	-	14 / 16	64	69	488	3260	
4	1100	0.5	1.3	6600	4.3	0.3	1.4	---	5.4	-	14 / 16	64	69	488	3260	
5	1100	0.5	1.3	6600	4.3	0.3	1.4	---	5.4	-	14	64	69	488	3260	

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

distribution: DOMETT T&T  
FONTERRA 5AX

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 (V6.12.08.27).  
 -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 V6.12.08.27 db 30.08.2012

vehicle manufacturer: DOMETT T&T  
 trailer model : 5AX F/T TANKER  
 trailer type : 5-axle-full-trailer  
 remarks : air / hydraulic / VA suspension  
 WABCO TRAILER - EBS E  
 TRISTOP 3+4: T.14/24  
 265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : SAF, PAN 19-1, TDB 0749 ECE,

		unladen	laden
total mass	P in kg	6100	34300
axle 1	P1 in kg	1400	7250
axle 2	P2 in kg	1400	7250
axle 3	P3 in kg	1100	6600
axle 4	P4 in kg	1100	6600
axle 5	P5 in kg	1100	6600
wheel base	E in mm	6465 - 6465	
centre of gravity height	h in mm	975	1600

	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	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	14.	14.	T.14/16	T.14/16	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	2.3	2.3	2.2	2.2	2.2
chamber pressure (rdyn max) pH at z=22,5%bar	2.3	2.3	2.2	2.2	2.2
chamber press. (servo) pcha at pm6,5bar bar	5.8	5.8	5.4	5.4	5.4
piston force ThA at pm6,5bar N	5588	5588	5187	5187	5187
brake force (rdyn min) T lad. at pm6,5bar N	42285	42285	39192	39192	39192
brake force (rdyn max) T lad. at pm6,5bar N	42285	42285	39192	39192	39192
brake force within 1 % rolling friction proportion	%	20.0	20.0	20.0	20.0

braking rate z laden 0.601 for rdyn min  
 z = sum (TR)/PRmax 0.601 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: 480 207 0.. 0 WABCO or 480 207 2.. 0  
EBS relay valve

brake cylinder: Meritor 14HSCLD64

axle 2:

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

axle 3:

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

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

brake cylinder: Meritor 1416HTLD64

axle 4:

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

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

brake cylinder: Meritor 1416HTLD64

axle 5:

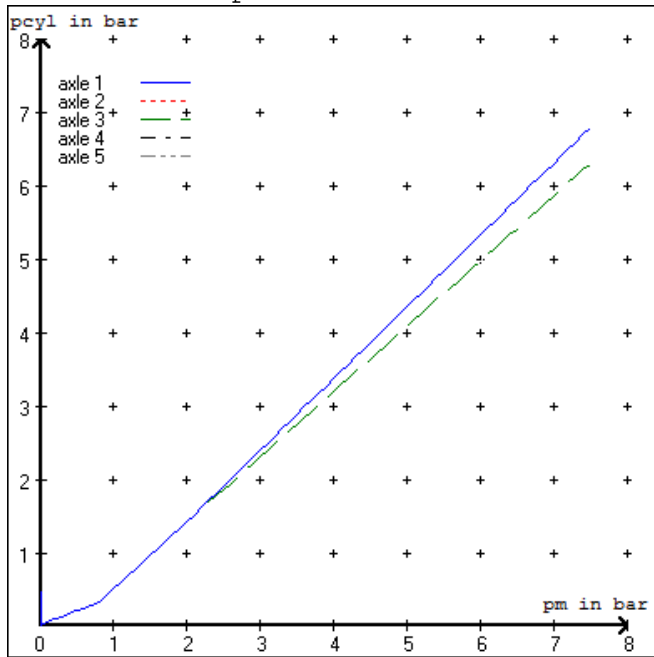
valve 1: 971 002 ... 0 WABCO  
EBS emergency valve

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

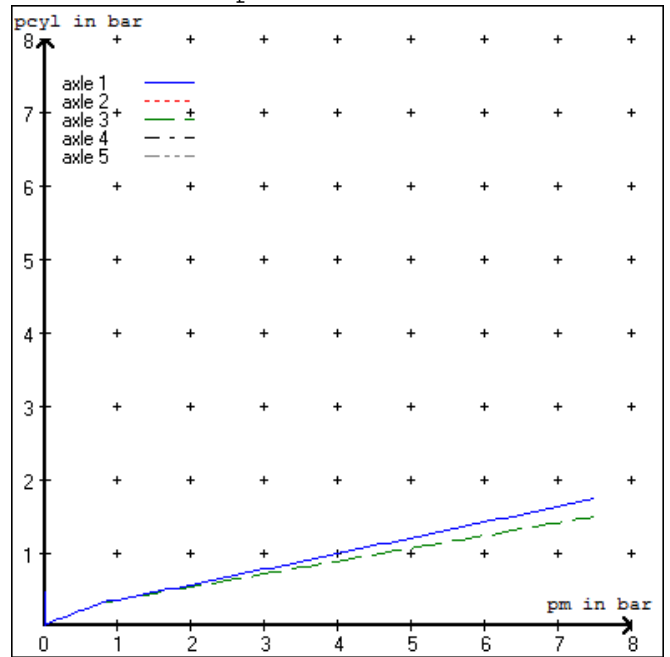
brake cylinder: Meritor 14HSCLD64

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	2.8	2.8	2.8	2.8
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	0.8	0.8	0.8	0.8

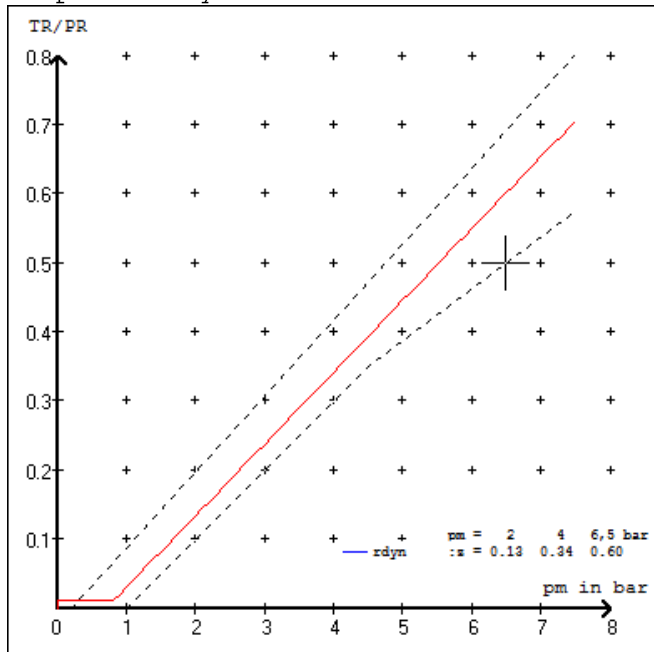
brake chamber pressure laden



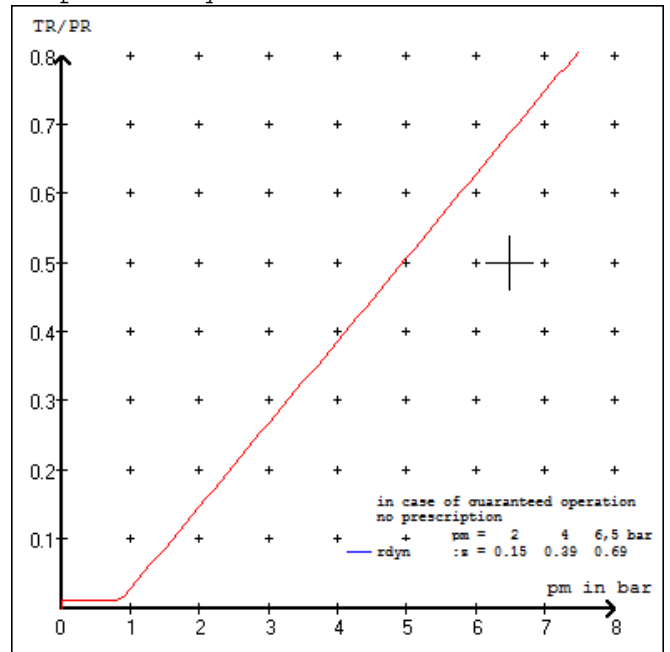
brake chamber pressure unladen



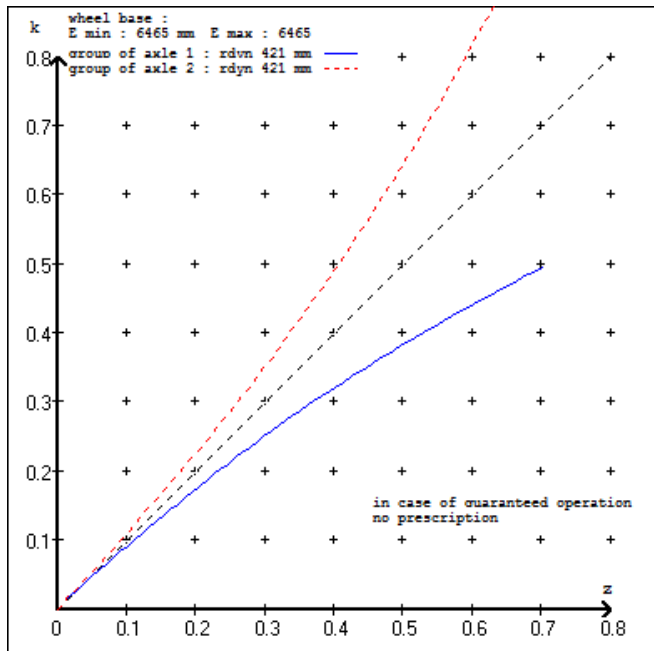
compatibility band laden



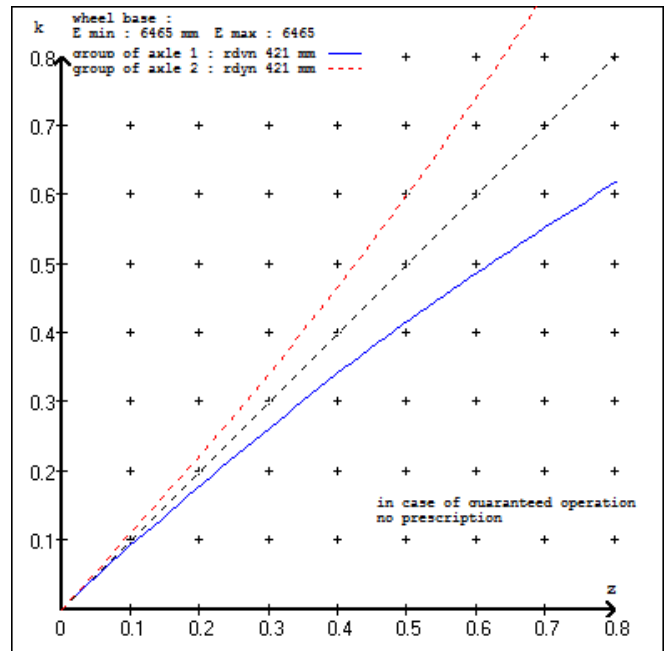
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT T&T  
 trailer model : 5AX F/T TANKER  
 trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter 14. (Meritor) lever length 69 mm  
 axle 2 : 2 x type/diameter 14. (Meritor) lever length 69 mm  
 axle 3 : 2 x type/diameter T.14/16 (Meritor) lever length 69 mm  
 axle 4 : 2 x type/diameter T.14/16 (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 WABCO EBS trailer modulator

EBS input data

=====  
 vehicle manufacturer: DOMETT T&T  
 trailer model : 5AX F/T TANKER  
 trailer type : 5-axle-full-trailer  
 brake calculation no. : TP 50674A

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	1.5	7250	to be	0.3	1.4	5.8	
2	1400	entered by the vehicle manufact.	1.5	7250	entered by the vehicle manufact.	0.3	1.4	5.8	
3	1100		1.3	6600		0.3	1.4	5.4	
4	1100		1.3	6600		0.3	1.4	5.4	
5	1100		1.3	6600		0.3	1.4	5.4	

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 pcy1	axle load pcy1	axle load pcy1	axle load pcy1	axle load pcy1
1400 1.5	1400 1.5	1100 1.3	1100 1.3	1100 1.3
1900 1.9	1900 1.9	1600 1.7	1600 1.7	1600 1.7
2400 2.2	2400 2.2	2100 2.0	2100 2.0	2100 2.0
2900 2.6	2900 2.6	2600 2.4	2600 2.4	2600 2.4
3400 3.0	3400 3.0	3100 2.8	3100 2.8	3100 2.8
3900 3.3	3900 3.3	3600 3.2	3600 3.2	3600 3.2
4400 3.7	4400 3.7	4100 3.5	4100 3.5	4100 3.5
4900 4.1	4900 4.1	4600 3.9	4600 3.9	4600 3.9
7250 5.8	7250 5.8	6600 5.4	6600 5.4	6600 5.4







**reference values**

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

	pz [bar]	T [N]	T [N]
axle 1	1.0	4937	
	5.8	35179	
axle 2	1.0	4937	
	5.8	35179	
axle 3	1.0		4884
	5.4		32605
axle 4	1.0		4884
	5.4		32605
axle 5	1.0		4884
	5.4		32605

VIN - no.:

	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	14./	14./	T.14/16	T.14/16	14./
Maximum stroke smax = ...mm maximaler Hub smax = ...mm	64	64	64	64	64
Lever length = ....mm Hebellänge = ....mm	69.08	69.08	69.08	69.08	69.08

