

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) ID

CHRIS CLARKE **CJC**

Vehicle registration (optional) VIN/chassis number

7A9C10032G1023533

Make **DOMETT TRAILERS**

Model (optional)

Certification category **HVEK**

Component being certified:

<input type="checkbox"/> Chassis	<input type="checkbox"/> Load anchorage
<input type="checkbox"/> Log bolsters	<input checked="" type="checkbox"/> Brakes
<input type="checkbox"/> SRT	<input type="checkbox"/> PSV stability
<input type="checkbox"/> Swept path	<input type="checkbox"/> PSV rollover
	<input type="checkbox"/> PBS

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015/3

Code/standard/rule certified to **LTR 32015/3**

General drawing number(s) **N/A**

Component load rating(s)

27 Tonnes GVM
(31 Tonnes (Group Ratings))

Supporting documents

BRAKE CODE CERTIFICATE CJC174323

BRAKE CALCULATION # TP51530

Special conditions (optional)

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

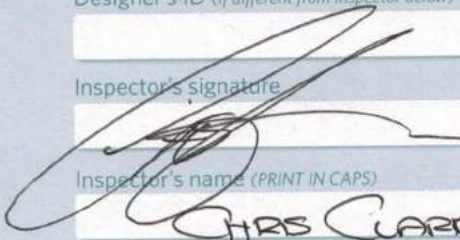
Certification expiry date (if applicable) **UNTIL MODIFIED**

or 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 **10-May-17** Number **587573**

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	480 102 080 0
Production date	2016-09-21	Serial number	437003170300C
Serial number (modulator)	000000059248		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2017-05-10 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00		


WABCO				TRAILER EBS-E				GGVS/ADR TUEH TB 2007 - 019.00 361-0071-04																							
HERSTELLER MANUFACTURER CONSTRUCTEUR		DOMETT TRAILERS		GIO		Pin1		Pin3		Pin4																					
TYP TYPE TYPE		3ASBTF TANKER		1		24V-O1		---		---																					
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS		7A9C10032G1023533		2		eTASC		---		eTASC																					
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.		TP51530S		3		---		---		---																					
POLRADZAHNEZAHL c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUE DENTEE c-d e-f		90 ---		4		---		---		LS1																					
ABS-System ABS-System Systeme ABS		2S/2M		5		DIAG		DIAG		DIAG																					
Einfachbereifung Single Tire Monte simple		X		6		---		---		---																					
Zwillingsbereifung Twin Tire Monte jumelle		---		7		---		---		---																					
Subsystems		I/O		24N																											
ACHSE AXLE ESSEU		pm (bar)		6.5		pm (bar)		0.8		2.0		---		6.5		TYP TYPE		(mm)		(mm)		(bar)		1.0		Pz					
		pz																				TR (daN)									
1		1400		0.5		2.2		6400		3.7		0.5		1.5		---		5.3		-		16 / 24		65		74		363		2827	
2		1400		0.5		2.2		6400		3.7		0.5		1.5		---		5.3		-		16 / 24		65		74		363		2827	
3		1400		0.5		2.2		6400		3.7		0.5		1.5		---		5.3		-		16		65		74		363		2827	
4		0		---		---		0		---		---		---		---		---		-		---		---		---		---		---	
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	7A9C10032G1023533
Vehicle type	3ASBTF TANKER	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke	Signature 	
Date	2017-05-10 10:43:48 a.m.		

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

distribution: DOMETT TRAILERS
7A9C10032G1023533
CJC174323
LT400: 5587573

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 20.04.2016

vehicle manufacturer: DOMETT TRAILERS
trailer model : 3ASBTF TANKER
trailer type : 3-axle-semi-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS
TRISTOP 1+2: 16/24
265/70 R 19,5

axle 1 + 2 + 3 : Assali Stefen, K, 361-071-04 ext01 ECE,

		<u>unladen</u>		<u>laden</u>	
total mass	P in kg	6500	- 7500	30000	- 32000
king-pin	PS kg	2300	- 3300	10800	- 12800
axle 1	P1 in kg		1400		6400
axle 2	P2 in kg		1400		6400
axle 3	P3 in kg		1400		6400
total axle mass	PR in kg		4200		19200
wheel base	E in mm	6900	- 6900		
centre of gravity height	h in mm		1100		1835
K-factor		Kv min	1.8751	Kc min	1.0636
K-factor		Kv max	1.8802	Kc max	1.0728

		<u>axle 1</u>	<u>axle 2</u>	<u>axle 3</u>
no. of combined axles		1	1	1
no. of brake chambers per axle line	KDZ	2	2	2
The power output corresponds to		BC 0165.0	BC 0165.0	BC 0169.0
brake chamber manufacturer		Haldex	Haldex	Haldex
chamber size		16/24	16/24	16"
lever length	lBh in mm	74	74	74
brake factor	[-]	20.26	20.26	20.26
dyn. rolling radius	rdyn min in mm	421	421	421
dyn. rolling radius	rdyn max in mm	421	421	421
threshold torque	Co Nm	7.0	7.0	7.0

calculation:			
chamber pressure(rdyn min)pH at z=22,5%bar		2.3	2.3 2.3
chamber pressure(rdyn max)pH at z=22,5%bar		2.3	2.3 2.3
chamber press.(servo)pcha at pm6,5bar bar		5.3	5.3 5.3
piston force ThA at pm6,5bar N		5088	5088 5088
brake force(rdyn min)T lad. at pm6,5bar N		36192	36192 36192
brake force(rdyn max)T lad. at pm6,5bar N		36192	36192 36192
brake force within 1 % rolling friction proportion	%	33.3	33.3 33.3

braking rate z laden 0.576 for rdyn min
z = sum (TR)/PRmax 0.576 for rdyn max

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

brake diagram : 841 701 101 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 ...

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 ...

axle 3:

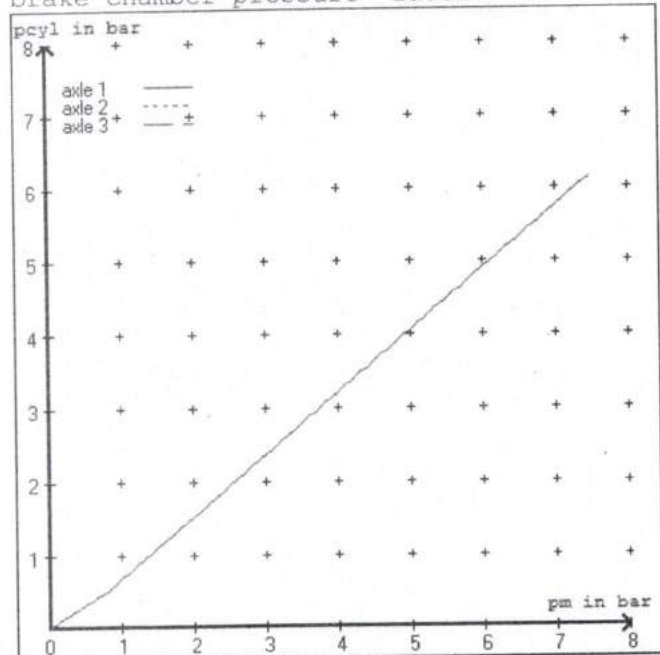
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

valve 2: 480 102 ... 0 () WABCO or 480 207 0.. 0 / 2.. 0
EBS trailer modulator

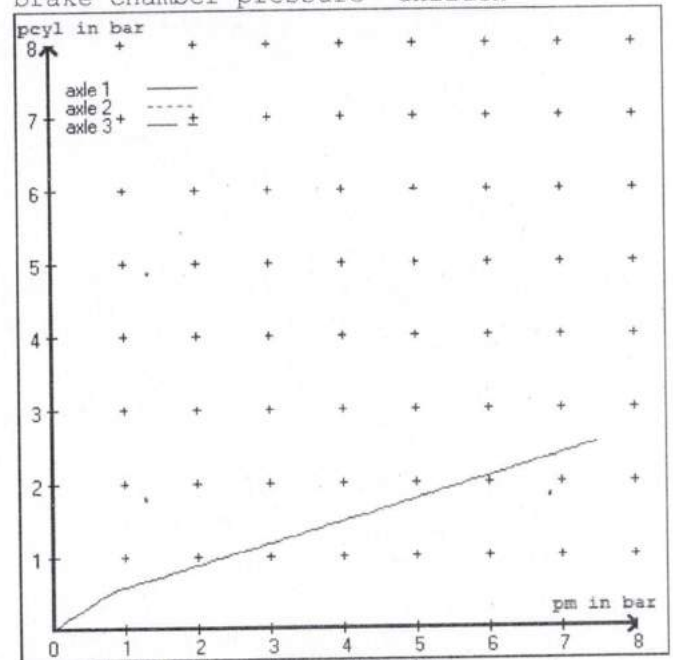
brake cylinder: Haldex 125 160 ...

test type III (zIII = 0.30)	for rdyn min :	axle1	axle2	axle3
at pm 3.7 bar =>	pcha in bar :	2.9	2.9	2.9
test type III (zIII = 0.06)	for rdyn min :	axle1	axle2	axle3
at pm 1.3 bar =>	pcha in bar :	0.9	0.9	0.9

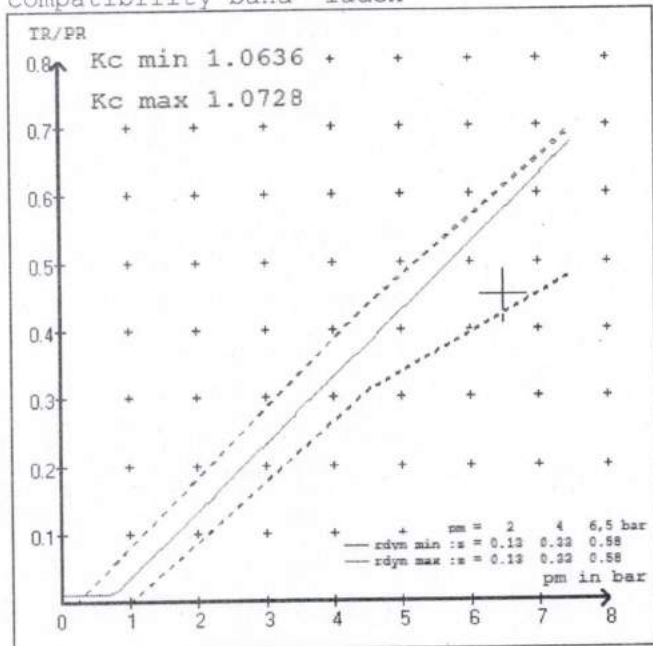
brake chamber pressure laden



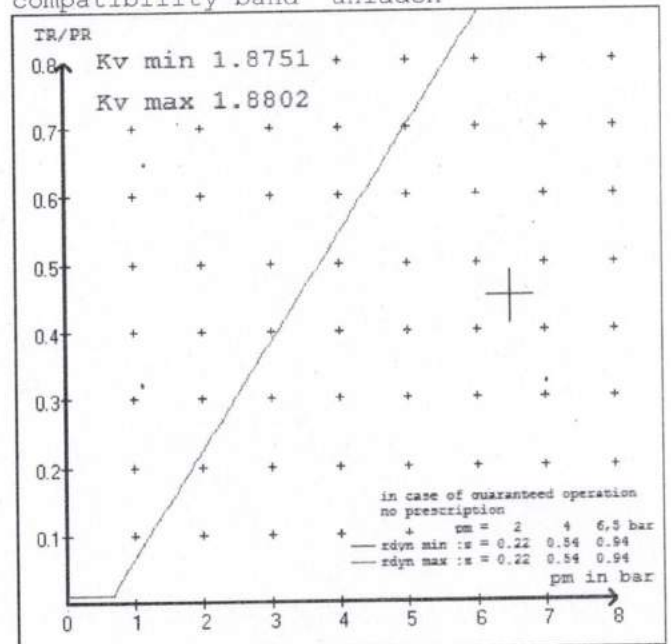
brake chamber pressure unladen



compatibility band laden



compatibility band unladen



vehicle manufacturer: DOMETT TRAILERS
 trailer model : 3ASBTF TANKER
 trailer type : 3-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

brake diagram : 841 701 101 0

valve :

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

EBS input data

vehicle manufacturer: DOMETT TRAILERS
 trailer model : 3ASBTF TANKER
 trailer type : 3-axle-semi-trailer
 brake calculation no. : TP 51530S

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 = 0.580

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	2.2	6400	to be	0.5	1.5	5.3
2	1400	entered by the vehicle manufact.	2.2	6400	entered by the vehicle manufact.	0.5	1.5	5.3
3	1400		2.2	6400		0.5	1.5	5.3
4	0		0,0	0		0,0	0,0	0,0
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 load	pcyl	axle load	pcyl	axle load	pcyl
1400	2.2	1400	2.2	1400	2.2
1900	2.5	1900	2.5	1900	2.5
2400	2.8	2400	2.8	2400	2.8
2900	3.1	2900	3.1	2900	3.1
3400	3.4	3400	3.4	3400	3.4
3900	3.8	3900	3.8	3900	3.8
4400	4.1	4400	4.1	4400	4.1
4900	4.4	4900	4.4	4900	4.4
6400	5.3	6400	5.3	6400	5.3

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: ROR8616AF(M13)
test report : 361-071-04 ext01 ECE	date : GA140710 01.07.2014
axle 2 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR8616AF(M13)
test report : 361-071-04 ext01 ECE	date : GA140710 01.07.2014
axle 3 : reference axle: Assali StefTM or LM or LCen	brake lining: ROR8616AF(M13)
test report : 361-071-04 ext01 ECE	date : GA140710 01.07.2014

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 = 17.5 % Fe
axle 2	(rdyn 421 mm)	T = 17.5 % Fe
axle 3	(rdyn 421 mm)	T = 17.5 % Fe

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

axle 1	(sp = 51 mm)	s = 37 mm.
axle 2	(sp = 51 mm)	s = 37 mm
axle 3	(sp = 51 mm)	s = 37 mm

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

axle1	ThA = 5088 N
axle2	ThA = 5088 N
axle3	ThA = 5088 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 = 38510 N
axle 2	(rdyn 421 mm)	T = 38510 N
axle 3	(rdyn 421 mm)	T = 38510 N

braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11)	basic test	type III
	of subject	(calculated)
	trailer (E)	residual
		(hot)braking
	0.58	0.61

required braking rate (items 1.5.3 and 1.7.2 to annex 11)	>= 0,4 and
	>= 0,6*E (0.35)

axle 1	(rdyn 421 mm)	T = 38510 N
axle 2	(rdyn 421 mm)	T = 38510 N
axle 3	(rdyn 421 mm)	T = 38510 N

braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11)	basic test	type III
	of subject	(calculated)
	trailer (E)	residual
		(hot)braking
	0.58	0.61

required braking rate (items 1.5.3 and 1.7.2 to annex 11)	>= 0,4 and
	>= 0,6*E (0.35)

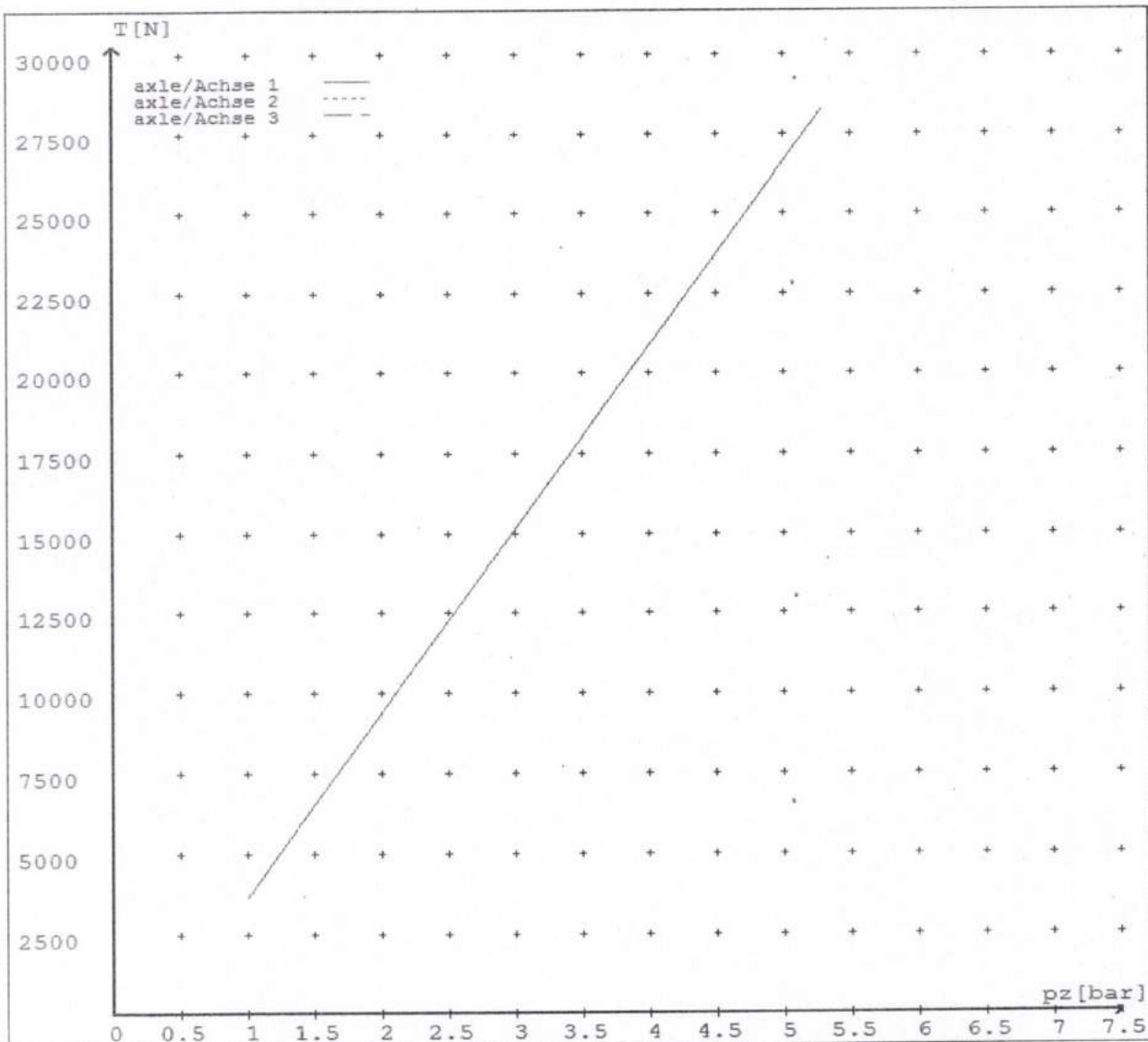
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0		3631
	5.3		28275
axle 2	1.0		3631
	5.3		28275
axle 3	1.0		3631
	5.3		28275

VIN - no.:

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



reference values for $z = 0.45$

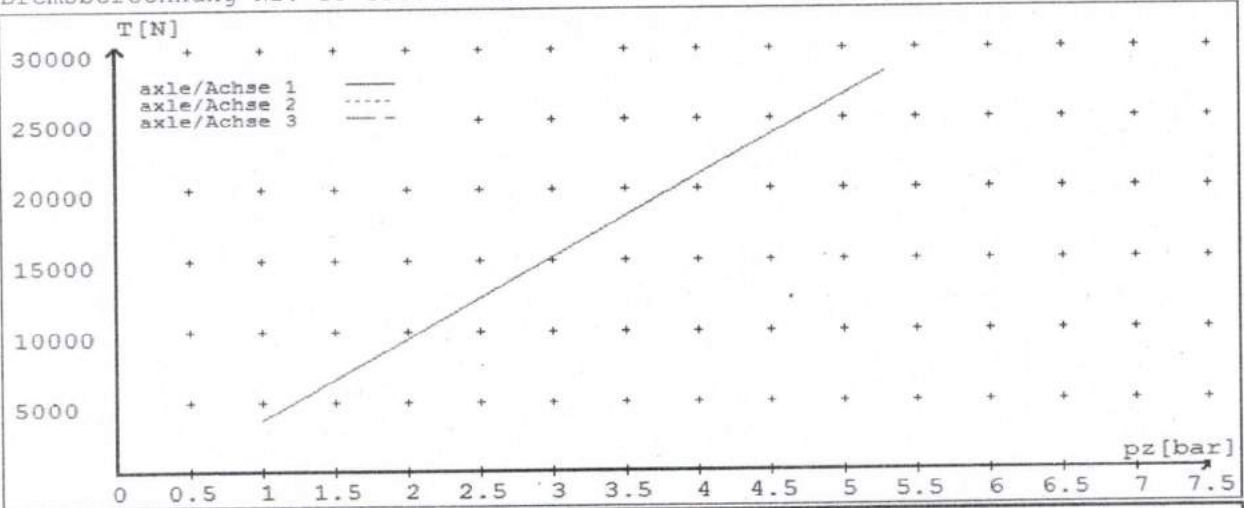
Angabe der Referenzwerte für $z = 0.45$

for max rdyn: 421 mm

für max rdyn: 421 mm

brake calculation no: TP 51530S date 24.11.2016

Bremsberechnung Nr: TP 51530S vom 24.11.2016



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

**HEAVY VEHICLE BRAKE RULE
32015/3 WORKSHEET
(PROCEDURE DOCUMENTATION SHEET-PDS)
&
CONFIRMATION OF COMPLIANCE**

CERTIFICATE NO.

CJC174323

CUSTOMER NAME

DOMETT TRAILERS LTD

CUSTOMER ORDER NO.

4658

DATE RECEIVED

10-May-17

VEHICLE TYPE

TANKER [BTF]

VIN/ CHASSIS NO.

7A9C10032G1023533

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

<u>BRAKE VALVES</u>	<u>MAKE</u>	<u>TYPE</u>
PRIMARY RELAY	WABCO	480 102 080 0
SECONDARY RELAY	N/A	N/A
YARD RELEASE VALVE	WABCO	971 002 900 0
PARK BRAKE VALVE	WABCO	971 002 900 0
<u>SUSP. VALVES [WABCO]</u>	<u>FRONT</u>	<u>REAR</u>
CONTROL	N/A	463 090 500 0
HEIGHT SENSOR	N/A	441 050 100 0

OTHER VALVES:

MAKE:	WABCO	TYPE:	446 192 110 0	SETTING:	SMARTBOARD
MAKE:	SEALCO	TYPE:	7700	SETTING:	T.P.V.
MAKE:	WABCO	TYPE:	461 513 002 0	SETTING:	PPV @ 5.5 Bar
MAKE:	WABCO	TYPE:	446 122 050 0	SETTING:	CAN ROUTER

BRAKE CHAMBERS:

	AXLE 1 & 2	AXLE 3	AXLE 4
MAKE	HALDEX	HALDEX	N/A
SIZE	1624 [135 1624...]	16 [125 160 ...]	N/A
MAX STROKE (mm)	65	65	N/A
SLACK LENGTH (mm)	74	74	N/A

DRUM TYPE: N/A N/A N/A

BRAKE CALIPER: KMXA KMXA N/A

FRICION MATERIAL: OEM AFTERMARKET

LINING BRAND

AXLE 1 & 2	AXLE 3	AXLE 4
ROR8616AF	ROR8616AF	N/A

OTHERS:

TYRES: FRONT REAR
N/A 265 70 R 19.5

BRAKE CALCULATION #: TP51530

COMMENTS:

EBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #

SALES ORDER #: SO623214 **PROCESS TIME:** 1 HOUR

TRAILERS EQUIPPED WITH PREV: THE PARK BRAKE PERFORMANCE **MUST BE**
MEASURED BY PULLING THE RED ACTUATION KNOB ON THE PREV VALVE WHEN
THE AXLES - EQUIPPED WITH SPRING BRAKES - ARE IN THE BRAKE ROLLERS. THE
PARK BRAKE IN THE CAB **MUST NOT** BE APPLIED.

NOTES:**CHAMBERS & PARK BRAKE PERFORMANCE:**

REFER TO BRAKE CALCULATION TP51530

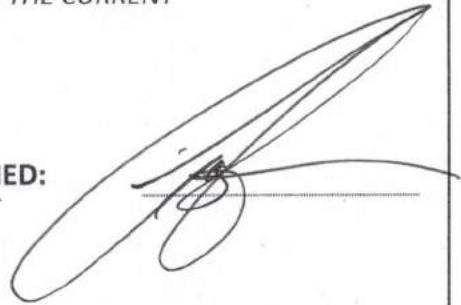
24.11.16 CJC IDENTIFIED HALDEX CHAMBERS FITTED NOT TSE. CHANGES MADE & FILES RE-SENT.

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 32015/3, SCHEDULE 5.

DATE: 10-May-17

SIGNED:



NAME & ID: C CLARKE (CJC)

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 32015/3 SCHEDULE 5.

DATE:

SIGNED:

NAME:

CERTIFIERS ID:

POSITION:

PHONE (BUS):

FAX (BUS):

COMMENTS:

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 32015/3.

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 32015/3. 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

(D.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 32015/3, 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)