

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

ID
C J C

Vehicle registration (optional)

VIN/chassis number
7 A 9 D 1 0 0 1 4 L 1 0 2 3 9 3 5

Make
DOMETT

Model (optional)

Certification category
HVEK

- Component being certified:
- Chassis
 - Load anchorage
 - Log bolsters
 - Towing connection
 - Brakes
 - SRT
 - PSV stability
 - PSV rollover
 - Swept path
 - PBS

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015/5

NEW ZEALAND HEAVY VEHICLE BRAKE SPECIFICATION.

4A TANKER

Code/standard/rule certified to
LTR 32015/5

Component load rating(s)
26 Tonnes GVM

General drawing number(s)
N/A

30 Tonnes (Group ratings)
RSS TWIN TYRES

Supporting documents

BRAKE RULE CERTIFICATE LC200704

BRAKE CALCULATION # 822LPC

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)
LANCE CAWTE L P C

Inspector's signature

Inspector's name (PRINT IN CAPS)
CHRIS CLARKE

ID number
C J C

Date
28-Aug-20

Number
753624

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 | 480 102 064 0 |
| Production date | 2017-11-14 | Serial number | 436040689500E |
| Serial number (modulátor) | 000000161117 | | |
| Fingerprint Customer EOL / Customer Development / Flash Program | W503643 / 2020-08-28 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00 | | |

WABCO

TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
TDB 0870

| | | | |
|--|--|--|---|
| HERSTELLER MANUFACTURER CONSTRUCTEUR | DOMETT | | |
| TYP TYPE TYPE | 4A TANKER, D1001 | | |
| VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS | 7A9D10014L1023935 | | |
| BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL. DE FREINAGE NO. | 822LPC, 2020SAF4AWPC | | |
| POLRADZAHNEZAHL 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 |
| RSS RSS RSS | Einfachbereifung Single Tire Monte simple | Lenkachse Steering axle Essieu, vireur | 4S/3M |
| | Zwillingsbereifung Twin Tire Monte jumelée | Kippkritisches Fahrzeug Critical Trailer Véhicule critique | |
| Subsystems | --- | I/O | 24N |

| GIO | Pin1 | Pin3 | Pin4 |
|-----|--------|------|------|
| 1 | 24V-O1 | --- | --- |
| 2 | --- | --- | --- |
| 3 | ALS2 | ALS2 | --- |
| 4 | --- | --- | --- |
| 5 | DIAG | DIAG | DIAG |
| 6 | --- | --- | --- |
| 7 | --- | --- | --- |



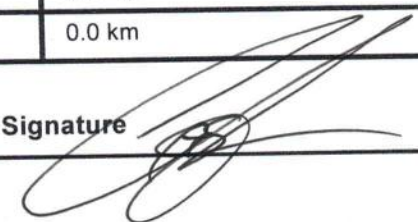
| ACHSE AXLE ESSIEU | pm (bar) | | 6.5 | | pm (bar) | | 0.8 | | 2.0 | | --- | | 6.5 | | TYP TYPE | (mm) | (mm) | (bar) | |
|-------------------------|----------|-----|-----|------|----------|-----|-----|-----|-----|---|---------|-----|-----|-----|-------------|------|------|-------|--|
| | + | - | + | - | + | - | + | - | + | - | + | - | 1.0 | Pz | | | | | |
| 1 | 1400 | 0.5 | 1.5 | 7500 | 4.7 | 0.4 | 1.3 | --- | 5.5 | - | 20 | 65 | 76 | 534 | 4241 | | | | |
| 2 | 1400 | 0.5 | 1.5 | 7500 | 4.7 | 0.4 | 1.3 | --- | 5.5 | - | 20 | 65 | 76 | 534 | 4241 | | | | |
| 3 | 1200 | 0.4 | 1.2 | 7500 | 4.7 | 0.4 | 1.5 | --- | 4.6 | - | 16 / 16 | 63 | 76 | 496 | 3115 | | | | |
| 4 | 1200 | 0.4 | 1.2 | 7500 | 4.7 | 0.4 | 1.5 | --- | 4.6 | - | 16 / 16 | 63 | 76 | 496 | 3115 | | | | |
| 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 | Vehicle ident. no | 7A9D10014L1023935 |
| Vehicle type | 4A TANKER, D1001 | Odometer reading | 0.0 km |
| next Service | 0 km | Trip reading | 0.0 km |
| Tester | Chris Clarke | Signature  | |
| Date | 2020-08-28 9:52:35 AM | | |

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

distribution: DOMETT
2020 SAF 4A WPC

please note!

This brake calculation is made under consideration of
-the legal precriptions 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!
WABCO Brake V6.18.07.12 db 31.08.2018

vehicle manufacturer: DOMETT
trailer model : 4A TANKER, D1001
trailer type : 4-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS
TRISTOP 3+4: 16/16
265/70 R 19,5

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

| | | <u>unladen</u> | <u>laden</u> |
|--------------------------|----------|----------------|--------------|
| total mass | P in kg | 5200 | 30000 |
| axle 1 | P1 in kg | 1400 | 7500 |
| axle 2 | P2 in kg | 1400 | 7500 |
| axle 3 | P3 in kg | 1200 | 7500 |
| axle 4 | P4 in kg | 1200 | 7500 |
| wheel base | E in mm | 5070 - 5070 | |
| centre of gravity height | h in mm | 700 | 1534 |

| | <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 brake chamber manufacturer | BZ 122.1 Meritor | BZ 122.1BC Meritor | 0006.0BC WABCO | 0006.0 WABCO |
| chamber size | 20. | 20. | 16/16 | 16/16 |
| lever length | 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 | 2.1 | 2.1 | 2.1 | 2.1 |
| chamber pressure(rdyn max)pH at z=22,5%bar | 2.1 | 2.1 | 2.1 | 2.1 |
| chamber press.(servo)pcha at pm6,5bar bar | 5.5 | 5.5 | 4.6 | 4.6 |
| piston force ThA at pm6,5bar N | 6332 | 6332 | 4648 | 4648 |
| brake force(rdyn min)T lad. at pm6,5bar N | 51239 | 51239 | 37636 | 37636 |
| brake force(rdyn max)T lad. at pm6,5bar N | 51239 | 51239 | 37636 | 37636 |
| Brake force incl. 1 % rolling resistance proportion % | 26.5 | 26.5 | 23.5 | 23.5 |

braking rate z laden 0.604 for rdyn min
z = sum (TR)/PRmax 0.604 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 WABCO
EBS trailer modulator

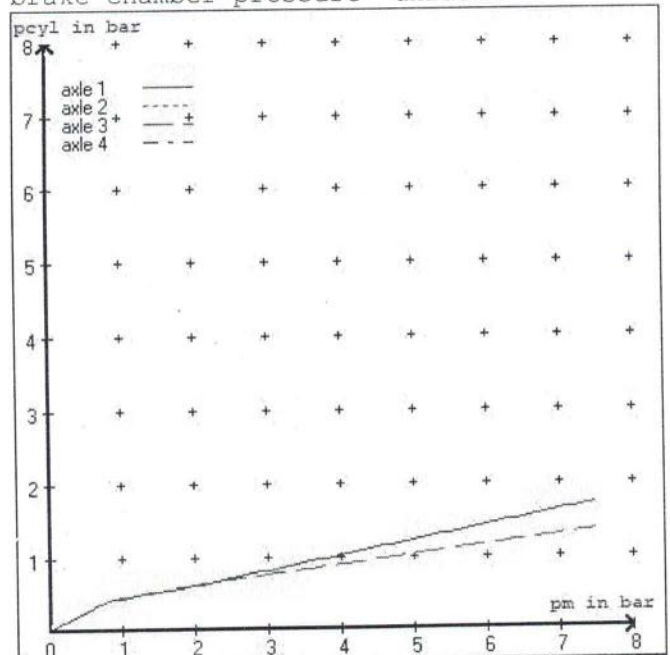
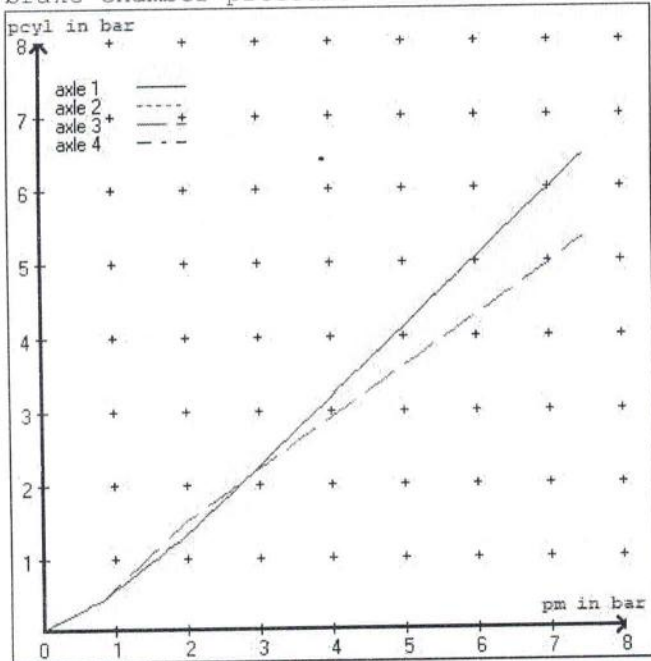
brake cylinder: WABCO 925 464 4.. 0 / 925 484 96. 0

axle 4:

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

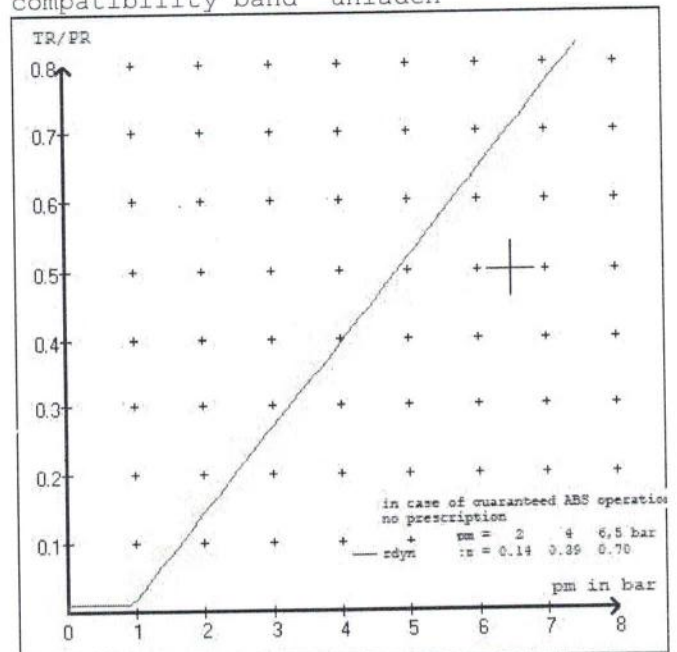
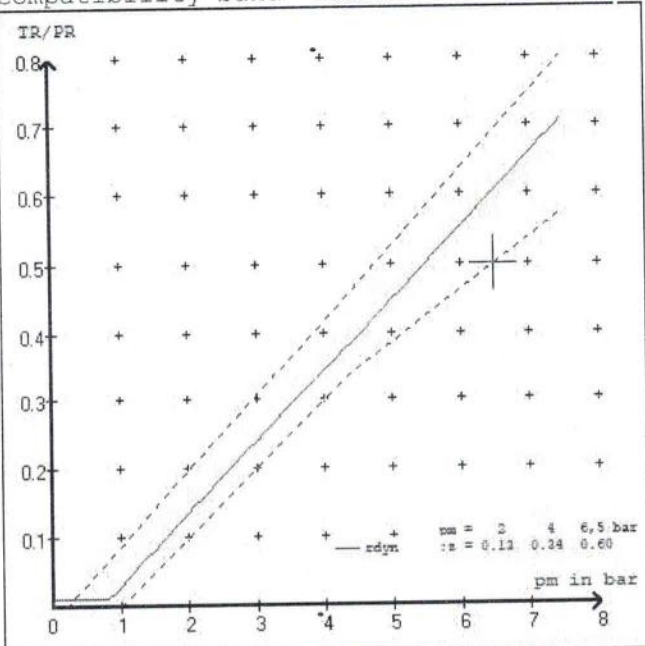
brake cylinder: WABCO 925 464 4.. 0 / 925 484 96. 0

| | | | | | | |
|---------------|---------------|----------------|-------|-------|-------|-------|
| test type III | (zIII = 0.30) | for rdyn min : | axle1 | axle2 | axle3 | axle4 |
| at pm | 3.6 bar => | pcha in bar : | 2.8 | 2.8 | 2.6 | 2.6 |
| test type III | (zIII = 0.06) | for rdyn min : | axle1 | axle2 | axle3 | axle4 |
| at pm | 1.3 bar => | pcha in bar : | 0.8 | 0.8 | 0.9 | 0.9 |



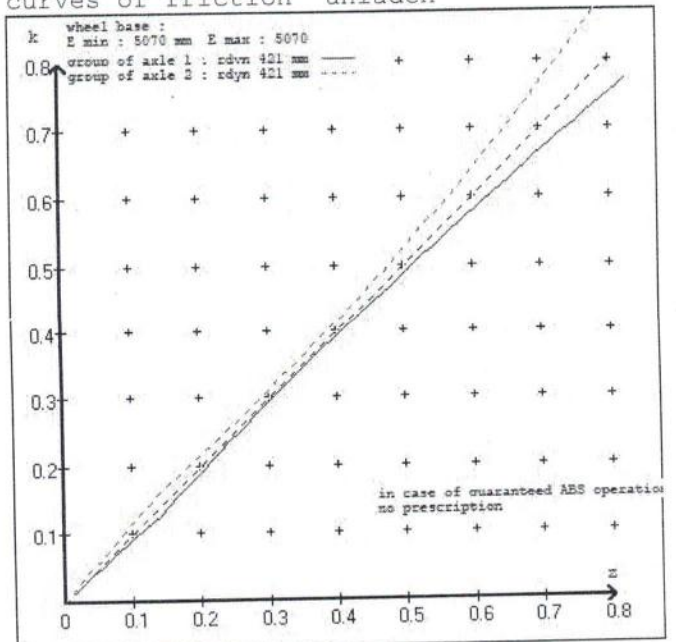
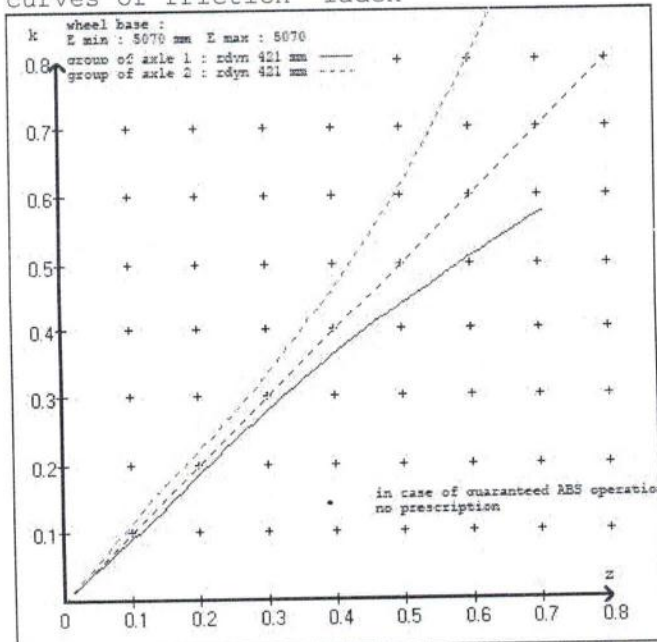
compatibility band laden

compatibility band unladen



curves of friction laden

curves of friction unladen



vehicle manufacturer: DOMETT
 trailer model : 4A TANKER, D1001
 trailer type : 4-axle-full-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter 20. (Meritor) lever length 76 mm
 axle 2 : 2 x type/diameter 20. (Meritor) lever length 76 mm
 axle 3 : 2 x type/diameter 16/16 (WABCO) lever length 76 mm
 axle 4 : 2 x type/diameter 16/16 (WABCO) lever length 76 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
 trailer model : 4A TANKER, D1001
 trailer type : 4-axle-full-trailer
 brake calculation no. : TP 2020A

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 | 7500 | to be | 0.4 | 1.3 | 5.5 | |
| 2 | 1400 | entered by the vehicle manufact. | 1.5 | 7500 | entered by the vehicle manufact. | 0.4 | 1.3 | 5.5 | |
| 3 | 1200 | | 1.2 | 7500 | | 0.4 | 1.5 | 4.6 | |
| 4 | 1200 | | 1.2 | 7500 | | 0.4 | 1.5 | 4.6 | |
| 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 | 1.5 | 1200 | 1.2 |
| 1900 | 1.8 | 1700 | 1.5 |
| 2400 | 2.2 | 2200 | 1.7 |
| 2900 | 2.5 | 2700 | 2.0 |
| 3400 | 2.8 | 3200 | 2.3 |
| 3900 | 3.1 | 3700 | 2.5 |
| 4400 | 3.5 | 4200 | 2.8 |
| 4900 | 3.8 | 4700 | 3.1 |
| 7500 | 5.5 | 7500 | 4.6 |

data sheet to ECE vehicle type-approval certificate concerning braking equipment: according to ECE R13 annex 11

| | | |
|------------------------------|--------------|-----------------------|
| axle 1 : reference axle: SAF | SBS 1937 | brake lining: SAF 437 |
| test report : | TDB 0870 ECE | date : 20131111 |
| axle 2 : reference axle: SAF | SBS 1937 | brake lining: SAF 437 |
| test report : | TDB 0870 ECE | date : 20131111 |
| axle 3 : reference axle: SAF | SBS 1937 | brake lining: SAF 437 |
| test report : | TDB 0870 ECE | date : 20131111 |
| axle 4 : reference axle: SAF | SBS 1937 | brake lining: SAF 437 |
| test report : | TDB 0870 ECE | date : 20131111 |

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

| | | |
|--------|---------------|---------------|
| axle 1 | (rdyn 421 mm) | T = 24.1 % Fe |
| axle 2 | (rdyn 421 mm) | T = 24.1 % Fe |
| axle 3 | (rdyn 421 mm) | T = 20.0 % Fe |
| axle 4 | (rdyn 421 mm) | T = 20.0 % Fe |

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

| | | |
|--------|--------------|-----------|
| axle 1 | (sp = 58 mm) | s = 47 mm |
| axle 2 | (sp = 58 mm) | s = 47 mm |
| axle 3 | (sp = 50 mm) | s = 47 mm |
| axle 4 | (sp = 50 mm) | s = 47 mm |

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

| | |
|-------|--------------|
| axle1 | ThA = 6332 N |
| axle2 | ThA = 6332 N |
| axle3 | ThA = 4648 N |
| axle4 | ThA = 4648 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 = 38993 N |
| axle 2 | (rdyn 421 mm) | T = 38993 N |
| axle 3 | (rdyn 421 mm) | T = 28649 N |
| axle 4 | (rdyn 421 mm) | T = 28649 N |

| | |
|-------------|--------------|
| basic test | type III |
| of subject | (calculated) |
| trailer (E) | residual |
| | (hot)braking |

braking rate of the vehicle
(item 4.3.2 to appendix 2 to annex 11)

0.60 0.46

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 421 mm) |
| axle 2 | (rdyn 421 mm) |
| axle 3 | (rdyn 421 mm) |
| axle 4 | (rdyn 421 mm) |

| |
|-------------|
| T = 38993 N |
| T = 38993 N |
| T = 28649 N |
| T = 28649 N |

| | |
|-------------|--------------|
| basic test | type III |
| of subject | (calculated) |
| trailer (E) | residual |
| | (hot)braking |

braking rate of the vehicle
(item 4.3.2 to appendix 2 to annex 11)

0.60 0.46

required braking rate
(items 1.5.3 and 1.7.2 to annex 11)

>= 0,4 and
>= 0,6*E (0.36)

data sheet to ECE vehicle type-approval certificate concerning braking equipment: according to ECE R13 annex 11

| | | |
|------------------------------|--------------|-----------------------|
| axle 1 : reference axle: SAF | SBS 1937 | brake lining: SAF 607 |
| test report : | TDB 0870 ECE | date : 2014520 |
| axle 2 : reference axle: SAF | SBS 1937 | brake lining: SAF 607 |
| test report : | TDB 0870 ECE | date : 2014520 |
| axle 3 : reference axle: SAF | SBS 1937 | brake lining: SAF 607 |
| test report : | TDB 0870 ECE | date : 2014520 |
| axle 4 : reference axle: SAF | SBS 1937 | brake lining: SAF 607 |
| test report : | TDB 0870 ECE | date : 2014520 |

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

| | | |
|--------|---------------|---------------|
| axle 1 | (rdyn 421 mm) | T = 24.1 % Fe |
| axle 2 | (rdyn 421 mm) | T = 24.1 % Fe |
| axle 3 | (rdyn 421 mm) | T = 20.0 % Fe |
| axle 4 | (rdyn 421 mm) | T = 20.0 % Fe |

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

| | | |
|--------|--------------|-----------|
| axle 1 | (sp = 58 mm) | s = 46 mm |
| axle 2 | (sp = 58 mm) | s = 46 mm |
| axle 3 | (sp = 50 mm) | s = 46 mm |
| axle 4 | (sp = 50 mm) | s = 46 mm |

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

| | |
|-------|--------------|
| axle1 | ThA = 6332 N |
| axle2 | ThA = 6332 N |
| axle3 | ThA = 4648 N |
| axle4 | ThA = 4648 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 = 40838 N |
| axle 2 | (rdyn 421 mm) | T = 40838 N |
| axle 3 | (rdyn 421 mm) | T = 29995 N |
| axle 4 | (rdyn 421 mm) | T = 29995 N |

| | |
|-------------|--------------|
| basic test | type III |
| of subject | (calculated) |
| trailer (E) | residual |
| | (hot)braking |
| | 0.48 |

braking rate of the vehicle
(item 4.3.2 to appendix 2 to annex 11)

0.60

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 421 mm) |
| axle 2 | (rdyn 421 mm) |
| axle 3 | (rdyn 421 mm) |
| axle 4 | (rdyn 421 mm) |

| |
|-------------|
| T = 40838 N |
| T = 40838 N |
| T = 29995 N |
| T = 29995 N |

| | |
|-------------|--------------|
| basic test | type III |
| of subject | (calculated) |
| trailer (E) | residual |
| | (hot)braking |
| | 0.48 |

braking rate of the vehicle
(item 4.3.2 to appendix 2 to annex 11)

0.60

required braking rate
(items 1.5.3 and 1.7.2 to annex 11)

>= 0,4 and
>= 0,6*E (0.36)

spring parking brake

| | | <u>axle 3</u> | <u>axle 4</u> |
|---|-----------------|---------------|---------------|
| no of TRISTOP-actuators per axle line KDZ | | 2 | 2 |
| TRISTOP-actuator type | | 16/16 | 16/16 |
| lever length | lBh 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 | 6282 | 6282 |
| sp.brake chamber no 925 | | 464 4.. 0464 | 4.. 0 |
| sp.brake chamber no 925 | | 484 96. 0484 | 96. 0 |
| release pressure | pLs in bar | 5.0 | 5.0 |

calculation:

| | | | |
|--|-----------------|--------|--------|
| ratio until road | | 4.2397 | 4.2397 |
| $iFb = lBh * \eta * C * rBt / (rBn * rstat)$ | | | |
| | for rstat in mm | 401 | 401 |
| brake force of spring br. Tf in N | | 52598 | 52598 |
| $Tf = (TFZ * KDZ - 2 * Co / lBh) * iFb$ | | | |
| braking rate | zf laden | 0.367 | |
| $zf = \sum (Tf) / P + 0,01$ | | | |

Test of the frictional connection required by the parking brake

minimum wheelbase/minimum supporting width min Ef necessary
to fulfil the regulations

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

$$\min Ef = 3627 \text{ mm for } E = 5070 \text{ mm}$$

$$\min Ef = 3627 \text{ mm for } E = 5070 \text{ mm}$$

min Ef = minimum distance between front axle(s) (trailer) or support (semitraile)
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 = 1534 mm height of center of gravity - laden
PR = 15000 kg maximum bogie mass - laden
P = 30000 kg maximum total mass - laden
nf = 2 no. of axle(s) with TRISTOP spring brake actuators
ng = 2 no. of bogie axle(s)

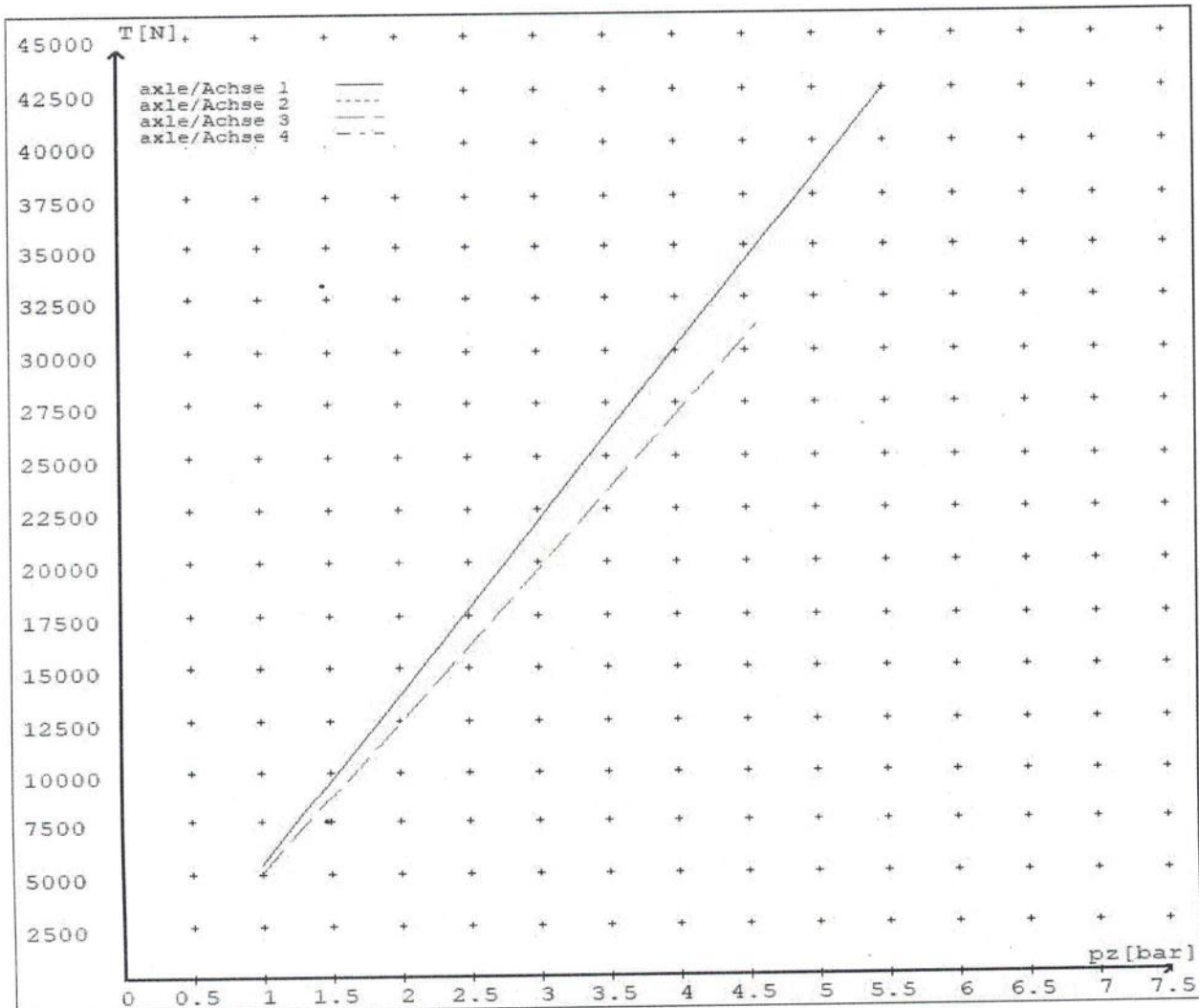
reference values

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

| | pz [bar] | T [N] | T [N] |
|--------|----------|-------|-------|
| axle 1 | 1.0 | 5350 | |
| | 5.5 | 42416 | |
| axle 2 | 1.0 | 5350 | |
| | 5.5 | 42416 | |
| axle 3 | 1.0 | | 4969 |
| | 4.6 | | 31156 |
| axle 4 | 1.0 | | 4969 |
| | 4.6 | | 31156 |

VIN - no.:

| | Axle(s) / Achse(n) | | | | |
|---|--------------------|------|-------|-------|---|
| brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest) | 20./ | 20./ | 16/16 | 16/16 | / |
| Maximum stroke smax = ...mm maximaler Hub smax =mm | 65 | 65 | 63 | 63 | |
| Lever length =mm Hebellänge =mm | 76 | 76 | 76 | 76 | |



reference values for $z = 0.5$

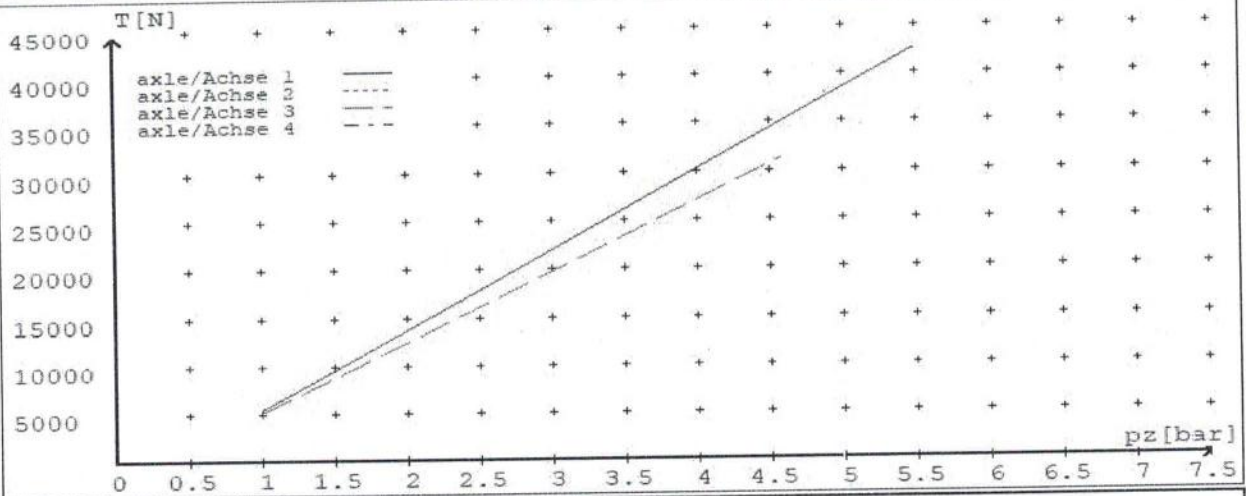
Angabe der Referenzwerte für $z = 0.5$

brake calculation no: TP 2020A date 16.04.2020

Bremsberechnung Nr: TP 2020A vom 16.04.2020

for max rdyn: 421 mm

für max rdyn: 421 mm



| | Axle(s) / Achse(n) | | | | |
|---|--------------------|------|-------|-------|---|
| brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest) | 20./ | 20./ | 16/16 | 16/16 | / |
| Maximum stroke $s_{max} = \dots$ mm maximaler Hub $s_{max} = \dots$ mm | 65 | 65 | 63 | 63 | |
| Lever length = \dots mm Hebellänge = \dots mm | 76 | 76 | 76 | 76 | |

**NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015-5
WORKSHEET, PROCEDURE DOCUMENTATION SHEET
& CONFIRMATION OF COMPLIANCE**

CLIENT

| | |
|----------------------|--------------------------------|
| MANUFACTURER: | DOMETT TRUCK & TRAILERS |
| ADDRESS: | Taurikura Drive, Tauranga 3110 |
| FLEET: | FONTERRA |

VEHICLE DETAILS

| | | | |
|----------------------------------|--------------------|-----------------------|--------------------|
| VEHICLE TYPE: | 4A TANKER | CERT #: | LC200704 |
| YEAR: | 2020 | CALCULATION #: | 822LPC |
| MAKE: | DOMETT | REGO: | |
| MODEL: | D1001 | LT400 #: | 753624 |
| CHASSIS #: | 1935 | ORDER NUMBER: | 7133 |
| VIN #: | 7A9D10014L1023935 | | |
| GVM: TONNES | 26 | PRIME MOVER: | EBS / EUROPEAN |
| LOAD CONFIGURATION: | UNIFORM DENSITY | | |
| GROUP RATINGS: TONNES | FRONT | REAR | |
| | 15 | 15 | |
| WHEEL BASE: METRES | 5.07 | | |
| | UNLADEN COG | MAX HEIGHT | HEIGHT DECK |
| | 0.7 | 2.485 | 1 |
| COG: METRES | 1.534 | | |
| | FRONT | REAR | TOTAL |
| TARE: TONNES | 2.8 | 2.4 | 5.2 |
| | FRONT | REAR | |
| TYRE SIZE: | 265 70 R19.5 | 265 70 R19.5 | |
| ROLLING CIRCUMFERENCE: MM | 2645 | 2645 | |
| AXLE SPACING: METRES | 1.3 | 1.3 | |

BRAKE & AXLE DETAILS

| | MAKE | MODEL | TEST REPORT |
|-------------------|---------|------------------|-------------|
| AXLE: | SAF | SAF-ZI9S | TDB0870 |
| POLE WHEEL FRONT: | 90 | POLE WHEEL REAR: | 90 |
| LINING MATERIAL: | SAF 607 | BRAKE FACTOR: | 22.37 |
| SENSED AXLES: | 1 & 3 | NOTES: | |
| SERIAL NUMBERS: | 1 | | IU |
| | 2 | | IU |
| | 3 | | IU |
| | 4 | | IU |

CHAMBER AND VALVING DETAILS

| | AXLE 1 & 2 | AXLE 3 & 4 | |
|----------------------------------|---|-------------------------------|--|
| CHAMBERS: | TSE_CHAMBERS | WABCO_CHAMBERS | |
| BRAND: | | | |
| SIZE: | 20HSCLD | 1616 (925/464/461/0) | |
| STROKE: <i>MILLIMETRES</i> | 65 | 59 | |
| TEST REPORT #: | BC 0041.0 Jul '07 | BC 0006.0 | |
| SPRINGBRAKE FORCE: <i>kN</i> | N/A | 6.28 | |
| HOLDOFF PRESSURE: <i>kPa</i> | N/A | 5 | |
| FOUNDATION BRAKE: | SAF SBS1918 | SAF SBS1918 | |
| LEVER LENGTH: <i>MILLIMETRES</i> | 76 | 76 | |
| BRAKE VALVES: | MAKE: | PART NUMBER: | PM PRESS. <i>kPa</i> |
| ECU PART #: | WABCO | 480 102 064 0 (24V) | 80 kPa |
| 3RD MODULATOR #: | WABCO | 480 207 001 0 (24V) | 80 kPa |
| ANTI-COMPOUNDING: | YES | | |
| SPRING BRAKE RELAY: | SEALCO_SBR | 110701 | |
| YARD RELEASE VALVE: | SEALCO_YR | 17600B | |
| INLINE RELAY FITTED: | N/A | N/A | |
| ECU DIRECTION: | <input checked="" type="checkbox"/> FRONT | <input type="checkbox"/> REAR | FRONT FRICTION: μ 0.51 |

SMARTBOARD/OPTILINK: SMARTBOARD OPTI-LINK**ELEX:** ELEX 446 122 070 0 TAILGUARD**SUSPENSION**

| | FRONT | REAR |
|---|---------------|---------------|
| SUSPENSION TYPE: | PNEUMATIC | PNEUMATIC |
| MAKE: | SAF_AIRSPRING | SAF_AIRSPRING |
| MODEL: | SAF_INTRA | SAF_INTRA |
| BELLOW SIZE: | 2619, 300mm | 2619, 300mm |
| HEIGHT CONTROL VALVE: | 464 008 011 0 | 464 008 011 0 |
| OTHER VALVES: | N/A | N/A |
| RIDE HEIGHT <small>MM</small>: | 250 | 250 |
| HANGER HEIGHT <small>MM</small>: | 200 | 200 |
| PEDESTAL HEIGHT <small>MM</small>: | NIL | NIL |
| LIFTAXLE: | | N/A |
| DUMP SWITCH: | | PNEUMATIC |
| LIFTAXLE VALVE: | | N/A |
| PRESSURE LIMITING: | | N/A |

AIR TANKS**AIR TANKS STANDARD:**

SAE J10A / EN286-2

BRAKE TANK SIZE: L

12113P, 46L

12113P, 46L

AUXILLARY TANK SIZE: L

12113P, 46L

PRESSURE PROTECTION:

WABCO PEM: 461 513 002 0

AIR LINES**TEST POINTS:****CONTROL LINE:**

FILTER X 1

TANK:

ECU X 1

REAR CHAMBER:

ECU X 2

FRONT CHAMBER:

LEFT 1st X 1

TRIOMATIC COLOUR CODED:

YES

ELECTRONIC HEIGHT SENSOR CALIBRATION

| | TIMER TICKS [F/R] | MILLIMETRE [F / R] |
|---------------|-------------------|--------------------|
| UPPER LEVEL: | N/A | N/A |
| NORMAL LEVEL: | N/A | N/A |
| LOWER LEVEL: | N/A | N/A |

CHECKS AT COMMISSION OF VEHICLE

| | | | |
|-----------------------------|-------------------------------------|-----------------|-------------------------------------|
| CHAMBER BUNGS REMOVED: | <input checked="" type="checkbox"/> | VALVE MOUNTING: | <input checked="" type="checkbox"/> |
| ECU BLANKING PLUGS CHECKED: | <input checked="" type="checkbox"/> | | |
| RESPONSE TIME: | MODULATOR 2.1 | MODULATOR 2.2 | RELAY VALVE |
| ms: | 265 | 275 | 300 |


NOTES AND SPECIAL CONDITIONS

| | | |
|---------------------------|-------------|----------------------|
| SUSPENSION DUMP VALVE | 3042402 | 3/2 way manual valve |
| REASON FOR CERTIFICATION: | NEW TRAILER | |

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 DEED OF APPOINTMENT. TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED IN THIS CERTIFICATE IS TRUE AND CORRECT.

NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/5, SCHEDULE 5.

DATE: 28/08/2020

SIGNED: 

CERTIFIER NAME & ID: CHRIS CLARKE CJC

SODC BY: LANCE CAWTE LPC

PHONE (BUS): 09-980-7300

FAX:

POSTAL ADDRESS: P.O. Box 98-971, Manukau 2241
New Zealand