

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

Plate number (optional)

VIN/chassis number
7A9D10019N2023183

Make **DOMETT**

Component being certified: Chassis load anchorage

Model (optional) **D1001**

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: NZ HEAVY VEHICLE BRAKE SPECIFICATION.
CARRY OUT BRAKE CALCULATIONS, INSPECTION AND ECU END OF LINE PROTOCOL.
4A TANKER
FOR SYSTEM ARCHITECTURE, PLEASE REFER TO PDS WORKSHEET & SCHEMATIC.
RSS ON TYRE: 265 70 R19.5

Code/standard/rule certified to
LTR 32015, SCHEDULE 5

Component load ratings(s)
26 Tonnes GVM

General drawing number(s)

15 Tonne (Front group ratings)
15 Tonne (Rear group ratings)

Supporting documents
BRAKE RULE CERTIFICATE LC220607
BRAKE CALCULATION # 2022 WABCO 4A WPC

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 **LPC**

Inspector's signature

Inspector's name (PRINT IN CAPS)

CHRIS CLARKE ID number **830399**

Date

05.07.2022

Number

830399

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 | 2020-12-15 | Serial number | 436080605500J |
| Serial number (modulator) | 000000539491 | | |
| Fingerprint Customer EOL / Customer Development / Flash Program | W503643 / 2022-07-05 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00 | | |

WABCO

TRAILER EBS-E

GGV/ADR TUEH TB 2007 - 019.00
TDB 0749

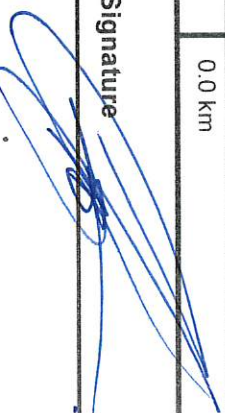
| | | | |
|---|---------------------|-----|---------|
| HERSTELLER MANUFACTURER CONSTRUCTEUR | DOMETT | | |
| VEHICLE IDENT. NUMBER TYPE | 4A TANKER, D1001 | G10 | Pin1 |
| BRANDBEZELIJNINGEN NUMERO DE CHASSIS | 7A9D10019N2023183 | 1 | 24 V-O1 |
| BRANDBEZELIJNINGEN NUMERO DE CHASSIS | TP2022 WABCO 4A WPC | 2 | ALS2 |
| POLE VIELTEL TEEHTI C-1 e1 DENTS ROUE DENTEE C-d1 e1 | 90 | 3 | ALS2 |
| Einbaueinrichtung Single tire | 90 | 4 | --- |
| Zwillingenbereifung Twin Tire | | 5 | DIAG |
| Leitachse Steering axle | | 6 | --- |
| Kopparisches Fahrzeug Vehicule change | | 7 | --- |
| Subsystems | I/O | 24N | |

| ACIUSE AXLE ESBUI | pm (bar) | 6.5 | pm (bar) | 0.8 | 2.0 | 6.5 | pz | TYP TYPE | (mm) | (mm) | (bar) | | | | |
|-------------------------|----------|-----|----------|------|-----|-----|-----|-------------|------|------|---------|-----|-----|-----|------|
| | | | | | | | | | | | 1.0 | Pz | | | |
| 1 | 1400 | 0.5 | 1.5 | 7500 | 4.7 | 0.4 | 1.4 | --- | 5.8 | - | 20 | 65 | 69 | 502 | 4220 |
| 2 | 1400 | 0.5 | 1.5 | 7500 | 4.7 | 0.4 | 1.4 | --- | 5.8 | - | 20 | 65 | 69 | 502 | 4220 |
| 3 | 1200 | 0.4 | 1.2 | 7500 | 4.7 | 0.4 | 1.5 | --- | 4.9 | - | 16 / 16 | 63 | 69 | 466 | 3134 |
| 4 | 1200 | 0.4 | 1.2 | 7500 | 4.7 | 0.4 | 1.5 | --- | 4.9 | - | 16 / 16 | 63 | 69 | 466 | 3134 |
| 5 | 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. | 7A9D10019N2023183 |
| Vehicle type | 4A TANKER, D1001 | Odometer reading | 0.0 km |
| Next service | 0 km | Trip reading | 0.0 km |
| Tester | Chris Clarke | Signature  | |
| Date | 2022-07-05 3:05:08 pm | | |

distribution: DOMETT
 2022 WABCO 4A WPC

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 (V6.18.07.12).
 -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!
 WABCOBrake V6.18.07.12 dp 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, SBW 1937, TDB 0749 ECE,

| | | unladen. | laden |
|--------------------------|----------|----------|-------|
| 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 | 1492 |

| | axle 1 | axle 2 | axle 3 | axle 4 |
|-------------------------------------|----------------|------------|----------|--------|
| no. of combined axles | 1 | 1 | 1 | 1 |
| no. of brake chambers per axle line | 2 | 2 | 2 | 2 |
| The power output corresponds to | BZ 122.1 | BZ 122.1BC | 0006.0BC | 0006.0 |
| brake chamber manufacturer | Meritor | Meritor | WABCO | WABCO |
| chamber size | 20. | 20. | 16/16 | 16/16 |
| lever length | 69 | 69 | 69 | 69 |
| brake factor | 23.03 | 23.03 | 23.03 | 23.03 |
| dyn. rolling radius | 421 | 421 | 421 | 421 |
| dyn. rolling radius | rdyn min in mm | 421 | 421 | 421 |
| threshold torque | Co Nm | 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 |
| chamber pressure(rdyn max)pH at z=22,5%bar | 2.3 | 2.3 | 2.2 | 2.2 |
| chamber press.(servo)pcha at pm6,5bar | 5.8 | 5.8 | 4.9 | 4.9 |
| piston force | 6702 | 6702 | 4974 | 4974 |
| brake force(rdyn min)T lad. at pm6,5bar N | 50729 | 50729 | 37673 | 37673 |
| brake force(rdyn max)T lad. at pm6,5bar N | 50729 | 50729 | 37673 | 37673 |
| Brake force incl. 1 % rolling resistance proportion | 26.5 | 26.5 | 23.5 | 23.5 |

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: 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:

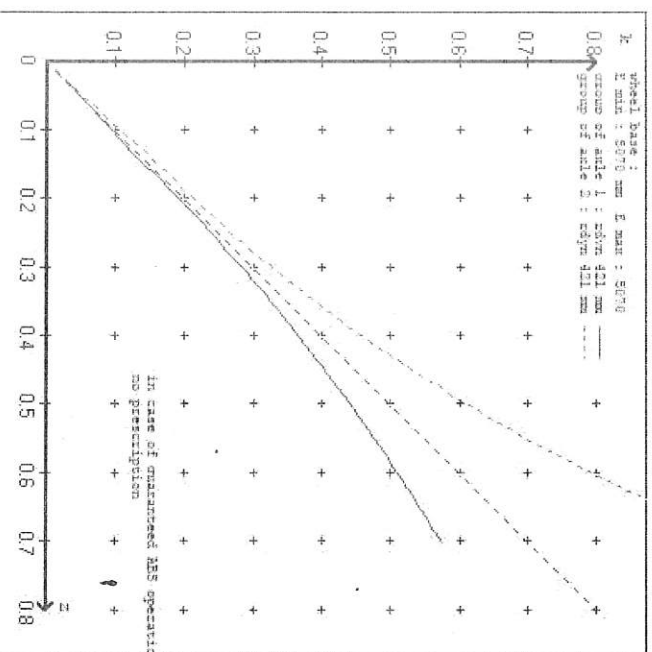
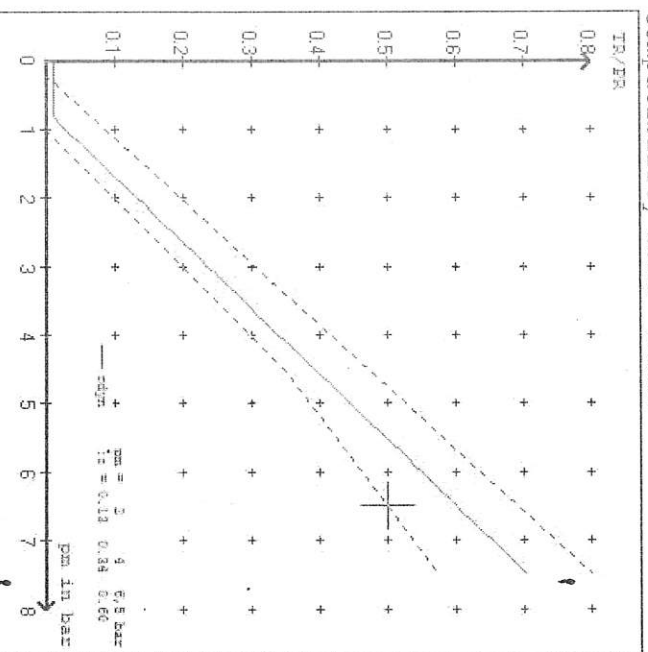
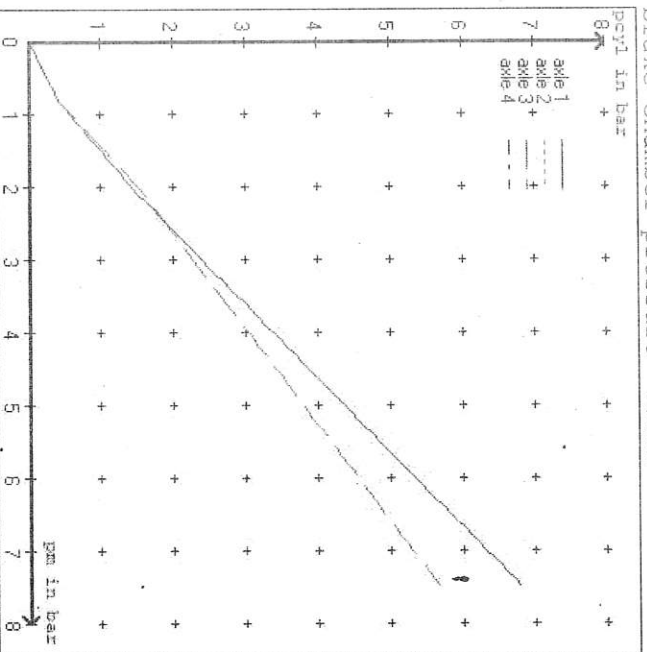
valve 1: 480 102 ... 0 WABCO
EBS trailer modulator

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

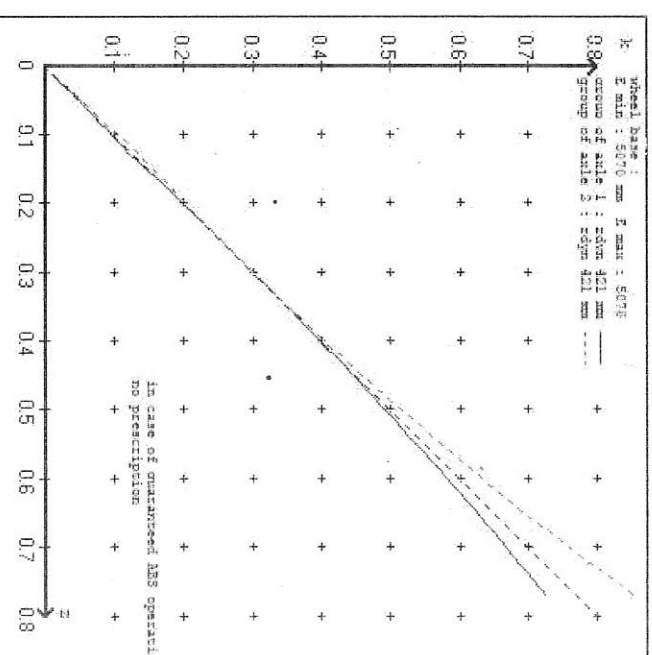
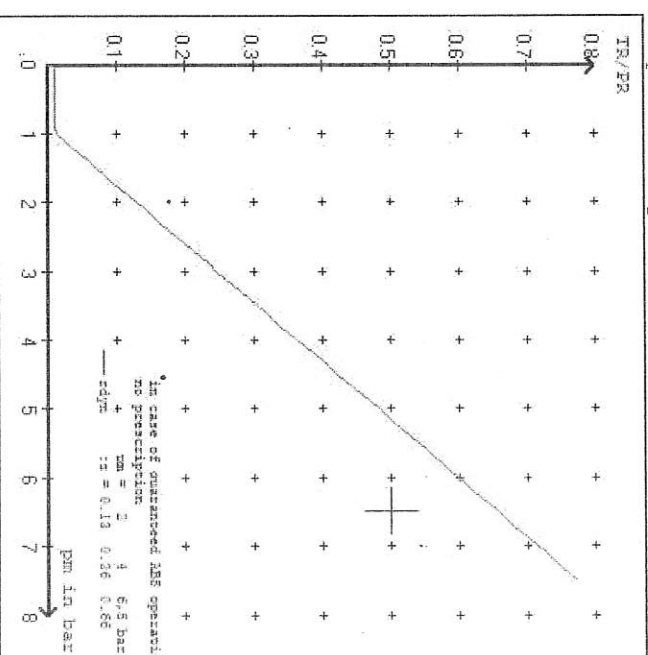
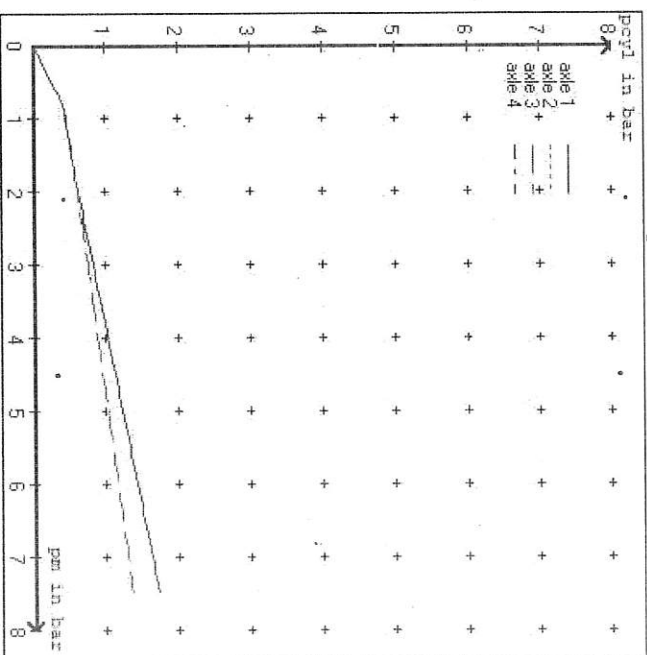
axle 4:
valve 1: 480 102 ... 0 WABCO
EBS trailer modulator
brake cylinder: WABCO 925 464 4.. 0 / 925 484 96. 0

| | | | | | | |
|------------------|---------------|----------------|-------|-------|-------|-------|
| test type III | (zIII = 0.30) | for rdyn min : | axle1 | axle2 | axle3 | axle4 |
| at pm 3.6 bar => | | pcha in bar : | 3.0 | 3.0 | 2.7 | 2.7 |
| 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 |

brake chamber pressure laden



brake chamber pressure 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 69 mm
 axle 2 : 2 x type/diameter 20. (Meritor) lever length 69 mm
 axle 3 : 2 x type/diameter 16/16 (WABCO) lever length 69 mm
 axle 4 : 2 x type/diameter 16/16 (WABCO) 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
 trailer model : 4A TANKER, D1001
 trailer type : 4-axle-full-trailer
 brake calculation no. : TP 2022A

tire circumference main axle : 2650 for rdyn max
 tire circumference auxilliary axle : 2650 for rdyn max

assignment pm / deceleration z: pm 0.8 bar z = 0.010
 2.0 bar z = 0.134
 6.5 bar z = 0.600

| axle | control pressure pm | | brake pr. unladen | axle load laden | control pressure pm | | brake pr. laden | | |
|------|---------------------|--------------------|-------------------|-----------------|---------------------|-----|-----------------|-----|--|
| | axle load unladen | bellow pr. unladen | | | bellow pr. laden | 0.8 | 2.0 | 6.5 | |
| 1 | 1400 | to be | 1.5 | 7500 | to be | 0.4 | 1.4 | 5.8 | |
| 2 | 1400 | entered by | 1.5 | 7500 | entered by | 0.4 | 1.4 | 5.8 | |
| 3 | 1200 | the vehicle | 1.2 | 7500 | the vehicle | 0.4 | 1.5 | 4.9 | |
| 4 | 1200 | manufact. | 1.2 | 7500 | manufact. | 0.4 | 1.5 | 4.9 | |
| 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 1400 1200 1200
 1900 1900 1700 1700
 2400 2400 2200 2200
 2900 2900 2700 2700
 3400 3400 3200 3200
 3900 3900 3700 3700
 4400 4400 4200 4200
 4900 4900 4700 4700
 7500 7500 7500 7500
 5.8 5.8 4.9 4.9

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

| | | | |
|----------|---------------------|--------------|----------------------------|
| axle 1 : | reference axle: SAF | SBW 1937 | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 20130930 30.09.2013 |
| axle 2 : | reference axle: SAF | SBW 1937 | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 20130930 30.09.2013 |
| axle 3 : | reference axle: SAF | SBW 1937 | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 20130930 30.09.2013 |
| axle 4 : | reference axle: SAF | SBW 1937 | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 20130930 30.09.2013 |

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 = 24.4 % Fe |
| axle 2 | (rdyn 421 mm) | T = 24.4 % Fe |
| axle 3 | (rdyn 421 mm) | T = 19.7 % Fe |
| axle 4 | (rdyn 421 mm) | T = 19.7 % Fe |

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

| | | |
|--------|--------------|-----------|
| axle 1 | (sp = 58 mm) | s = 39 mm |
| axle 2 | (sp = 58 mm) | s = 39 mm |
| axle 3 | (sp = 51 mm) | s = 39 mm |
| axle 4 | (sp = 51 mm) | s = 39 mm |

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

| | |
|-------|--------------|
| axle1 | ThA = 6702 N |
| axle2 | ThA = 6702 N |
| axle3 | ThA = 4974 N |
| axle4 | ThA = 4974 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 = 39620 N |
| axle 2 | (rdyn 421 mm) | T = 39620 N |
| axle 3 | (rdyn 421 mm) | T = 29492 N |
| axle 4 | (rdyn 421 mm) | T = 29492 N |

basic test type III
 of subject (calculated)
 trailer (E) residual

braking rate of the vehicle (hot)braking
 (item 4.3.2 to appendix 2 to annex 11) 0.60 0.47

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) | T = 39620 N |
| axle 2 | (rdyn 421 mm) | T = 39620 N |
| axle 3 | (rdyn 421 mm) | T = 29492 N |
| axle 4 | (rdyn 421 mm) | T = 29492 N |

basic test type III
 of subject (calculated)
 trailer (E) residual

braking rate of the vehicle (hot)braking
 (item 4.3.2 to appendix 2 to annex 11) 0.60 0.47

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

| | axle 3 | axle 4 |
|---|------------|--------|
| no of TRISTOP-actuators per axle line KDZ | 2 | 2 |
| TRISTOP-actuator type | 16/16 | 16/16 |
| lever length | 69 | 69 |
| stat. tyre radius | 401 | 401 |
| | | |
| at a stroke of | s | in mm |
| min. force of spring brake | TFZ in N | |
| sp.brake chamber no 925 | 464 | 464 |
| sp.brake chamber no 925 | 484 | 96. 0 |
| release pressure | 5.0 | 5.0 |
| | pls in bar | |

calculation:

ratio until road 3.9674 3.9674
 $IFB = 1Bh * \text{Eta} * C * rBt / (rBn * rstat)$
 for rstat in mm 401 401
 brake force of spring br. Tf. in N 49157 49157
 $Tf = (TFZ * KDZ - 2 * Co / 1Bh) * IFB$
 braking rate zf laden 0.344
 $zf = \text{sum}(Tf) / P + 0,01$

Test of the frictional connection required by the parking brake

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

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

min Ef = 3617 mm for E = 5070 mm
 min Ef = 3617 mm for E = 5070 mm

min Ef = minimum distance between front axle(s) (trailer) or support (semitrailer)
 and the rear axle(s) (resultant of the bogie) wheel base
 E =
 fzul = 0.80 maximum permissible frictional connection required
 zferf = 0.18 maximum required braking ratio of the parking brake
 h = 1492 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)

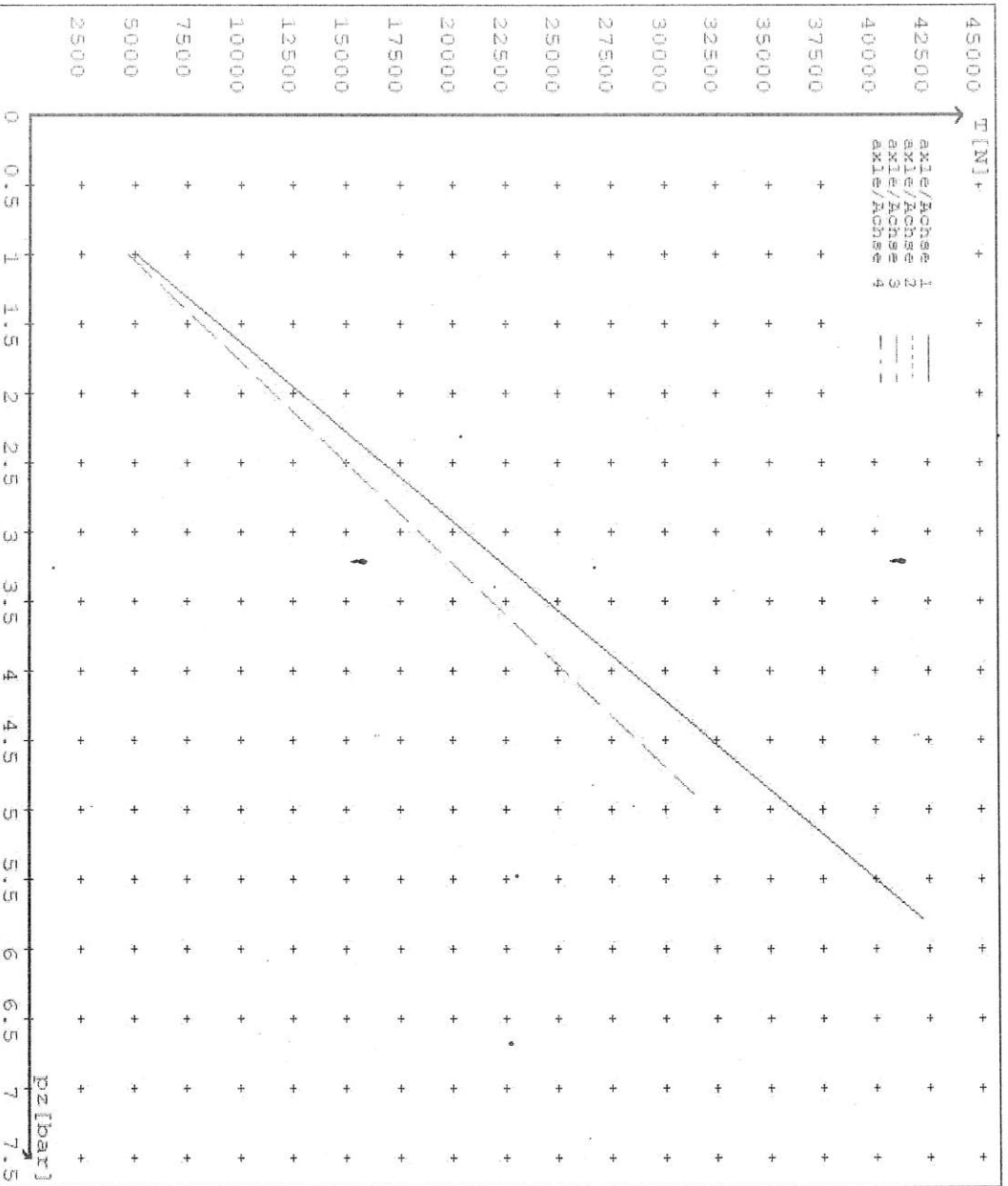
reference values

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

| | pz [bar] | T [N] | T' [N] |
|--------|------------|---------------|---------------|
| axle 1 | 1.0 5.8 | 5021 42203 | |
| axle 2 | 1.0 5.8 | 5021 42203 | |
| axle 3 | 1.0 4.9 | | 4662 31342 |
| axle 4 | 1.0 4.9 | | 4662 31342 |

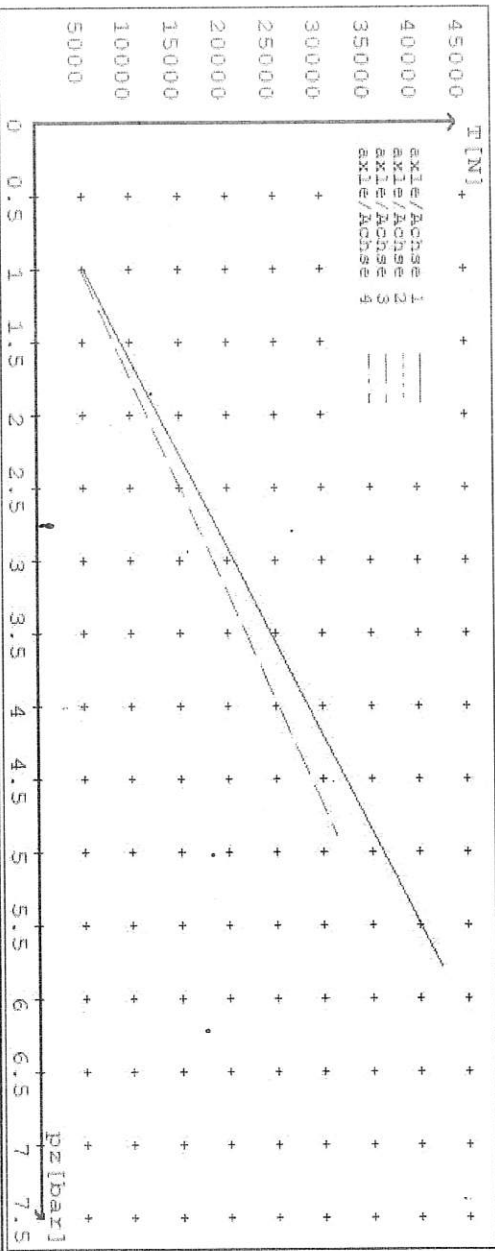
VTN - no.:

| | Axle(s) / Achse(n) | | | |
|---|--------------------|-------|-------|-------|
| brake cylinder type (service / parking) | 20. / | 20. / | 16/16 | 16/16 |
| Bremszylinder Typ (Betrieb / Fest) | | | | / |
| Maximum stroke smax = ...mm | 65 | 65 | 63 | 63 |
| maximaler Hub smax = ...mm | | | | |
| Lever length = ...mm | 69.08 | 69.08 | 69.08 | 69.08 |
| Hebellänge = ...mm | | | | |



for max rdyn: 421 mm
für max rdyn: 421 mm

reference values for z = 0.5
Angabe der Referenzwerte für z = 0.5
brake calculation no: TP 2022A date 25.03.2022
Bremsberechnung Nr: TP 2022A vom 25.03.2022



| | | Axle(s) / Achse(m) | |
|---|-------|--------------------|-------|
| Brake cylinder type (service / parking) | 20. / | 20. / | 16/16 |
| Brameszylinder Typ (BetrieB / Fest) | 65 | 65 | 63 |
| Maximum stroke smax = ...mm | | | 63 |
| maximaler Hub smax = ...mm | | | |
| Lever length, = ...mm | 69.08 | 69.08 | 69.08 |
| Hebellänge = ...mm | | | 69.08 |



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

CLIENT

MANUFACTURER: DOMETT TRAILERS
ADDRESS: Taurikura Drive, Tauranga 31110
FLEET: FONTERRA

VEHICLE DETAILS

VEHICLE TYPE: 4A TANKER **CERT #:** LC220607
YEAR: 2022 **CALCULATION #:** 2022 WABCO 4A WPC
MAKE: DOMETT **REGO #:**
MODEL: D1001 **LT400 #:** 830399
CHASSIS #: 2183 **ORDER #:** 8873

VIN #: 7A9D10019N2023183
GVM: 26 **PRIME MOVER:** EBS / EUROPEAN

LOAD CONFIGURATION: UNIFORM DENSITY
GROUP RATINGS: **FRONT** 15 **REAR** 15

WHEEL BASE: 5.07

UNLADEN COG 0.7 **MAX HEIGHT** 2.38 **HEIGHT DECK** 1.00

COG: 1.492

| | | | |
|------------------|--------------|-------------|--------------|
| TARE: 2.8 | FRONT | REAR | TOTAL |
| | 2.8 | 2.4 | 5.2 |

| | | | |
|--------------------------------|--------------|--------------|---------------|
| TYRE SIZE: 265 70 R19.5 | FRONT | REAR | FITTED |
| | 265 70 R19.5 | 265 70 R19.5 | 265 70R 19.5 |

ROLLING CIRCUMFERENCE: 2645

AXLE SPACING: 1.3

BRAKE & AXLE DETAILS

| | MAKE | MODEL | TEST REPORT |
|-------------------|-----------|------------------|-------------|
| AXLE: | SAF | SAF-Z19W | TDB0749 |
| POLE WHEEL FRONT: | 90 | POLE WHEEL REAR: | 90 |
| LINING MATERIAL: | JURID 539 | BRAKE FACTOR: | 23.03 |
| SENSED AXLES: | NOTES: | | |
| | 1 + 3 | | |

SERIAL NUMBERS:

| | |
|---|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

CHAMBER AND VALVING DETAILS

CHAMBERS:

AXLE 1 & 2

AXLE 3 & 4

AXLE 5

| | AXLE 1 & 2 | AXLE 3 & 4 | AXLE 5 |
|------------------------|-------------------|----------------------|--------|
| BRAND: | TSE_CHAMBERS | WABCO_CHAMBERS | N/A |
| SIZE: | 20HSCLD | 1616 (925/464/461/0) | N/A |
| STROKE: mm | 65 | 63 | |
| TEST REPORT #: | BC 0041.0 Jul '07 | BC 0006.0 | |
| SPRING BRAKE FORCE: kN | N/A | 6.28 | |
| HOLDOFF PRESSURE: Bar | N/A | 5 | |
| FOUNDATION BRAKE: | WABCO PAN19 | WABCO PAN19 | |
| LEVER LENGTH: mm | 69 | 69 | N/A |

BRAKE VALVES:

MAKE:

PART NUMBER:

PMI PRESS: kPa

| | | | |
|----------------------|------------|---------------------|--------|
| ECU PART #: | WABCO | 480 102 08. 0 (MV) | 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:

FRONT

REAR

FRONT FRICTION: μ

0.51

SUBSYSTEMS:

SMARTBOARD

OPT-LINK

CAN ROUTER 446 122 050 0

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: | NORGREN 3042402 | NORGREN 3042402 |
| RIDE HEIGHT <small>MM</small> : | 250 | 250 |
| HANGER HEIGHT <small>MM</small> : | | |
| PEDESTAL HEIGHT <small>MM</small> : | | |
| LIFT AXLE: | N/A | N/A |
| TIPPING DUMP SWITCH: | | PNEUMATIC |
| LIFTAXLE VALVE: | | N/A |
| PRESSURE LIMITING: | | N/A |

AIR TANKS

| | | |
|------------------------|--------------------------|-----------------|
| AIR TANKS STANDARD: | SAE J10A / EN286-2 | |
| | FRONT | REAR |
| BRAKE TANK SIZE: L | C51902, 48L | C51902, 48L |
| AUXILIARY TANK SIZE: L | | C51901, 25L X 2 |
| 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 |
| DUOMATIC COLOUR CODED: | YES | |

ELECTRONIC HEIGHT SENSOR CALIBRATION

| | TIMER TICKS [F/R] | MILLIMETRE [F / R] |
|---------------|----------------------|----------------------|
| UPPER LEVEL: | <input type="text"/> | <input type="text"/> |
| NORMAL LEVEL: | <input type="text"/> | <input type="text"/> |
| LOWER LEVEL: | <input type="text"/> | <input type="text"/> |

CHECKS AT COMMISSIONING OF VEHICLE

CHAMBER BUNGS REMOVED: VALVE MOUNTING:

ECU BLANKING PLUGS CHECKED:

RESPONSE TIME: MODULATOR 2.1 MODULATOR 2.2 RELAY VALVE
ms:

NOTES AND SPECIAL CONDITIONS

3/12/2021 received est build schedule.15/12/2021 request to do project, receive drawings etc.
24/3/2022 start files, request and receive product and trailer data. 25/3/2022 do calculations and ECU files.
29/03/2022 Advised air reservoirs changed. Redo paperwork to reflect change.
22/06/2022 Complete paperwork, SODC & ECU file & send.

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.

RULE / STD COMPLIED TO:

NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015, SCHEDULE 5, ADR-35, EGER13, FMZSS-121

DATE: 5/07/2022

SIGNED: Lance Clarke

CERTIFIER NAME & ID: CHRIS CLARKE CIC

SODC BY: LANCE CAWTE LPC

PHONE (BUS): 09-980-7300

FAX:

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