

Heavy Vehicle Specialist Certificate

Heavy Vehicle Specialist Inspector and Inspecting Organisation

Heavy Vehicle Specialist Inspector's Name (PRINT IN CAPS)

RONALD STUART PRATT

ID

TRSP

Vehicle Registration*

VIN / Chassis Number

7A9E3501XC1023031

Component being certified:

Chassis Modification

Load Anchorage

Log Bolsters

Towing Connection

Brakes

SRT

Certification Category

HVEK

Description of Work

Certify to Brake Rule 32015/2

Code/Standard Certified to

NZ HV / Rule Schedule 5

Component Load Rating(s)

General Drawing Number(s)

NA

Supporting Documents

Brake Cert No JA 120204
SAF5FTEBSe

*Special Conditions

ABS Control. Warning lamp must illuminate when ignition switched on, and extinguish immediately OR when vehicle reaches 7kph

Certification Expiry Date (if applicable)

NA

or

Hubodometer Reading (whichever comes first)

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

Declaration

I the undersigned, declare that I am the Heavy Vehicle Specialist Inspector identified above 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 Deed of Appointment. To the best of my knowledge the information contained in this Certificate is true and correct.

Designer's ID (if certified by a manufacturer)

Inspector's / Delegate's Signature

R. Pratt

*Delegate's Name (PRINT IN CAPS)

Date

27/04/2012

Number

394650

COF Vehicle Inspector ID:

1021

COF Vehicle Inspector Signature:

R. Pratt

Date

30/4/12

All fields excluding those marked with * must be completed before this certificate can be accepted.

HVBR WORKSHEET

(PROCEDURE & COMPLIANCE DOCUMENTATION SHEET)

CERTIFICATE No.

JH120204

CUSTOMER NAME

DOMETT TRUCK & TRAILER LTD

CUSTOMER ORDER No.

3716

DATE RECEIVED

19.01.12

VEHICLE TYPE

5 AXLE FULL TRAILER

REG No.

CHASSIS No.

7A9E3501XC1023031

BRIEF SPECIFICATION AS CERTIFIED TO HVBR

BRAKE CHAMBERS:

Type: **14HSCLD64-1604 (TSE):** Max stroke = **64mm** Lever length = **69mm**
Type: **1416HTLD64-1606 (TSE):** Max stroke = **64mm** Lever length = **69mm**

BRAKE VALVES:

Ratio Valve Setting: **EBS CONTROL**

Test Points: **3 4 5 7**

FRICITION LINING:

(All) Lining Brand

OEM
JURID 539

Aftermarket

EBS CONTROL: SPECIAL CONDITIONS APPLY – SEE INSTRUCTION ON LT400

VALVES: AS PER DATA SHEET ATTACHED

TYRE SIZE: 265 70 R 19.5

NOTES

PACKING SLIP NO.

SO1502890

PROCESS TIME:

1

COMPLETION DATE : 9th February 2012

SIGNATURE



Statement of Compliance with the New Zealand Heavy Brake Rule

Documentation required to support Statements of Compliance with the New Zealand Heavy Brake Rule, to be made available to the Statutory Authority on request, must include all calculations and test reports.

Confirmation of compliance

I confirm that the vehicle identified on page 1 of this Statement of Compliance complies with all relevant requirements of the current New Zealand Heavy Vehicle Brake Rule 32015/2, Schedule 5.

Date: 9th February 2012

Signed:



Certifier's identification

Name: J E Hirst

Phone (bus): (09) 980 7300

Fax (bus): (09) 980 7306

Postal address: Transport Specialties, Cnr Kerrs & Ash Roads

Wiri, Auckland, PO Box 98 971 Manukau City 2241

Position: JEH

Confirmation of continued compliance of modification

I confirm the brake system of the vehicle identified on 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 Vehicle Brake Rule 32015/2, Schedule 5.

Date: _____ Signed: _____

Certifier's identification: JEH

Name:

Phone (bus): (09) 980 7300

Fax (bus): (09) 980 7306

Postal address: Transport Specialties Ltd

Cnr Kerrs & Ash Roads, Wiri, Auckland

PO Box 98 971, Manukau City 2241



Document: A1265372
Exemption: HVB12/015

**EXEMPTION FROM SPECIFIED REQUIREMENTS OF LAND TRANSPORT RULE:
Heavy-vehicle Brakes 2006, Rule 32015**

Pursuant to Section 166(1) of the Land Transport Act 1998, and pursuant to the powers delegated to me, I Jackie Hartley, Administrator (Assessments) hereby exempt the motor vehicle specified in Schedule 1 hereto from the section of Land Transport Rule: Heavy-vehicle Brakes 2006 (the Rule) listed in Schedule 2, subject to the conditions specified in Schedule 3.

SCHEDULE 1:

Make/Model: **Domett Truck & Trailer Ltd, 5 axle full trailer**
VIN/CHASSIS: **7A9E3501XC1023031**

SCHEDULE 2: - Exempted Requirement

Section 2.3(9); The parking brake of a vehicle, whether or not it is being operated as a combination vehicle, must be able to be applied by the driver from the normal driving position using one control only.

SCHEDULE 3: - Conditions of this exemption:

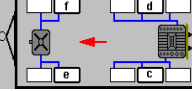
- 1) The vehicle must be fitted with a Wabco park-release emergency valve (PREV), Part Number: 971 002 900 0.
- 2) The vehicle must be fitted with the Wabco PREV name plate, Part Number 971 002 103 4, adjacent to the PREV.
- 3) The vehicle must still be fitted with a parking brake that complies with all parking brake requirements in the Rule other than the requirement in Clause 2.3(9) of the Rule.
- 4) The installation of the PREV must be approved in writing by Transport Specialties Limited (Transpecs) or an NZ Transport Agency appointed HVEK certifier acting on behalf of, and under instruction from, Transpecs; Transpecs must keep a written record of all approvals.
- 5) An HVEK certifier in 4) must be fully trained in end of line procedures for Wabco electronically controlled braking systems
- 6) Transpecs must provide full operator training in the use of the PREV and furnish the operator with full written operating instructions for the PREV.
- 7) The vehicle must not be modified in any way while operating under this exemption.
- 8) This original exemption must be kept by Transport Specialties Ltd.
- 9) A copy of this exemption (printed on a silver WABCO Sticker) must be affixed to the exempted vehicle as close to the WABCO PREV as possible.
- 10) The sticker in 8) must be legible and include all printed areas of this original exemption letter.
- 11) This exemption can be revoked at any time in writing by the NZ Transport Agency.
- 12)

Signed at Wellington this 25th day of January 2012.

Jackie Hartley
Administrator (Assessments)

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

| | | | | | | | |
|--|--|--|-----------|------------|-------------|-------------|-------------|
| HERSTELLER MANUFACTURER CONSTRUCTEUR | | DOMETT T&T | | GIO | Pin1 | Pin3 | Pin4 |
| TYP TYPE TYPE | | 5AX F/T TIPPER | | 1 | --- | --- | --- |
| FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS | | 7A9E3501XC1023031 | | 2 | --- | --- | --- |
| BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO. | | TP50588 | | 3 | ALS2 | ALS2 | --- |
| POLRADZÄHNEZAHL c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUE DENTÉE c-d e-f | | 90 | 90 | 4 | --- | --- | --- |
| RSS RSS RSS | | Einfachbereifung Single Tire Monte simple | | 5 | DIAG | DIAG | DIAG |
| | | Lenkachse Steering axle Essieu vireur | | 6 | --- | --- | --- |
| | | X | | 7 | --- | --- | --- |
| | | Kippkritisches Fahrzeug Critical Trailer Véhicule critique | | | | | |
| Subsystems | | SB | | | | | |
| | | I/O | | | | | |



| ACHSE AXLE ESSIEU | pm (bar) | | 6.5 | | pm (bar) | | 0.7 | 2.0 | --- | 6.5 | TYP TYPE | (mm) | (mm) | (bar) | |
|-------------------------|----------|-----|-----|--------|----------|-----|-----|-----|-----|-----|-------------|------|------|-------|----------|
| | H (kg) | ⊗ | ⊗ | H (kg) | ⊗ | ⊗ | pz | 1.0 | Pz | | | | | | |
| | | | | | | | | | | | | | | | TR (daN) |
| 1 | 1850 | 1.0 | 2.4 | 7250 | 4.8 | 0.3 | 1.3 | --- | 6.2 | - | 14 | 64 | 69 | 504 | 3853 |
| 2 | 1850 | 1.0 | 2.4 | 7250 | 4.8 | 0.3 | 1.3 | --- | 6.2 | - | 14 | 64 | 69 | 504 | 3853 |
| 3 | 1170 | 0.5 | 1.5 | 6000 | 3.9 | 0.3 | 1.3 | --- | 4.5 | - | 14 / 16 | 64 | 69 | 494 | 2748 |
| 4 | 1170 | 0.5 | 1.5 | 6000 | 3.9 | 0.3 | 1.3 | --- | 4.5 | - | 14 / 16 | 64 | 69 | 494 | 2748 |
| 5 | 1170 | 0.5 | 1.5 | 6000 | 3.9 | 0.3 | 1.3 | --- | 4.5 | - | 14 / 16 | 64 | 69 | 494 | 2748 |



START-UP PROTOCOL

| | | | |
|--|---|--------------------------|---------------|
| System | Trailer EBS-E | WABCO part number | 480 102 064 0 |
| Production date | 2011-07-07 | Serial number | 896002756100A |
| Fingerprint Customer EOL / Customer Development / Flash Program | W 033869 / 2012-04-27 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00 | | |



TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
TDB 0749 ECE

| | | | | | | | | | | | |
|--|--|--|-----------|---|--|--------------|--|--------------|--|--------------|--|
| HERSTELLER MANUFACTURER CONSTRUCTEUR | | DOMETT T&T | | GIO | | Pin1 | | Pin3 | | Pin4 | |
| TYP TYPE TYPE | | 5AX F/T TIPPER | | 1 | | FKA-I | | FKA-I | | FKA-O | |
| FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS | | 7A9E3501XC1023031 | | 2 | | --- | | --- | | --- | |
| BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO. | | TP50588 | | 3 | | ALS2 | | ALS2 | | --- | |
| POLRADZÄHNEZÄHL. 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 | | 4 | | --- | |
| RSS RSS RSS | | Einfachbereifung Single Tire Monte simple | | Lenkachse Steering axle Essieu vireur | | | | 5 | | DIAG | |
| | | X | | Kippkritisches Fahrzeug Critical Trailer Vehicule critique | | | | 6 | | --- | |
| Subsystems | | SB | | I/O | | | | 7 | | --- | |

| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------|------------|-----------------|-------------|------------|------------|------------|---------------------|-------------|-------------|----------------|--------------|------------|------------|-----------------|------------|
| | | | | | | | | | | | | | | | | |
| | pm (bar) | 6.5 | pm (bar) | 0.7 | 2.0 | --- | 6.5 | | | | | | | | | |
| ACHSE AXLE ESSIEU | | | | | | | | TYP TYPE | (mm) | (mm) | (mm) | (bar) | 1.0 | Pz | TR (daN) | |
| 1 | 1850 | 1.0 | 2.4 | 7250 | 4.8 | 0.3 | 1.3 | --- | 6.2 | - | 14 | 64 | 69 | --- | --- | --- |
| 2 | 1850 | 1.0 | 2.4 | 7250 | 4.8 | 0.3 | 1.3 | --- | 6.2 | - | 14 | 64 | 69 | --- | --- | --- |
| 3 | 1170 | 0.5 | 1.5 | 6000 | 3.9 | 0.3 | 1.3 | --- | 4.5 | - | 14 / 16 | 64 | 69 | --- | --- | --- |
| 4 | 1170 | 0.5 | 1.5 | 6000 | 3.9 | 0.3 | 1.3 | --- | 4.5 | - | 14 / 16 | 64 | 69 | --- | --- | --- |
| 5 | 1170 | 0.5 | 1.5 | 6000 | 3.9 | 0.3 | 1.3 | --- | 4.5 | - | 14 / 16 | 64 | 69 | --- | --- | --- |

| | | | |
|------------------------------|-------------|--|------------|
| Diagnostic memory | OK | Warning lamp control | OK |
| Parameter setting | carried out | Stop light power supply | Not tested |
| EBS pressure test | OK | Lifting axle test | Not tested |
| Redundancy test | OK | ECAS distance sensor calibration | Not tested |
| ABS sensor assignment | OK | Distance sensor Axle load calibr. | Not tested |
| RTR check | Not tested | Leak test | Not tested |
| Immobilizer test | Not tested | Signal outputs TEBS | Not tested |

| | | | |
|-------------------------------|------------|----------------------------|------------|
| Diagnostic memory ELEX | Not tested | Signal outputs ELEX | Not tested |
| TailGUARDlight | Not tested | TailGUARD | Not tested |

| | | | |
|---------------------|-----------------------|--------------------------|-------------------|
| Manufacturer | DOMETT T&T | Vehicle ident. no | 7A9E3501XC1023031 |
| Vehicle type | 5AX F/T TIPPER | Odometer reading | 7.2 km |
| next Service | 0 km | Trip reading | 7.2 km |
| Tested by | Ron Pratt | Signature | |
| Date | 2012-04-27 1:22:34 PM | | |

trailer (full, semi-, centre-axle) with air brake system acc. to 71/320/EEC, last amended by 98/12/EC and 2006/96/EC or UN/ECE-R.13.11

distribution: DOMETT T&T
7A9E3501XC1023031
SODC - JH120204

please note!

This brake calculation is made under consideration of
-the legal precriptions mentioned above in the version valid
alt the time of making the program (V6.10.05.21).
-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 V6.10.05.21 db 26.05.2010

vehicle manufacturer: DOMETT T&T
trailer model : 5AX F/T TIPPER
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS E
TRISTOP 3+4+5: 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 | 7210 | 32500 |
| axle 1 | P1 in kg | 1850 | 7250 |
| axle 2 | P2 in kg | 1850 | 7250 |
| axle 3 | P3 in kg | 1170 | 6000 |
| axle 4 | P4 in kg | 1170 | 6000 |
| axle 5 | P5 in kg | 1170 | 6000 |
| wheel base | E in mm | 7040 - 7040 | |
| centre of gravity height | h in mm | 1200 | 2350 |

| | 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 | 2 | 2 | 2 | 2 | 2 |
| The power output corresponds to | BZ 122.1 | BZ 122.1 | BZ 119.6 | BZ 119.6 | BZ 119.6 |
| brake chamber manufacturer | Meritor | Meritor | Meritor | Meritor | Meritor |
| chamber size | 14. | 14. | T.14/16 | T.14/16 | T.14/16 |
| lever length | 69 | 69 | 69 | 69 | 69 |
| brake factor | 23.03 | 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 | 2.0 | 2.0 | 2.0 |
| chamber pressure(rdyn max)pH at z=22,5%bar | 2.3 | 2.3 | 2.0 | 2.0 | 2.0 |
| chamber press.(servo)pcha at pm6,5bar bar | 6.2 | 6.2 | 4.5 | 4.5 | 4.5 |
| piston force ThA at pm6,5bar N | 5988 | 5988 | 4285 | 4285 | 4285 |
| brake force(rdyn min)T lad. at pm6,5bar N | 45314 | 45314 | 32317 | 32317 | 32317 |
| brake force(rdyn max)T lad. at pm6,5bar N | 45314 | 45314 | 32317 | 32317 | 32317 |
| brake force within 1 % rolling friction proportion | % | 20.0 | 20.0 | 20.0 | 20.0 |

braking rate z laden 0.588 for rdyn min
z = sum (TR)/PRmax 0.588 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
 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
 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:

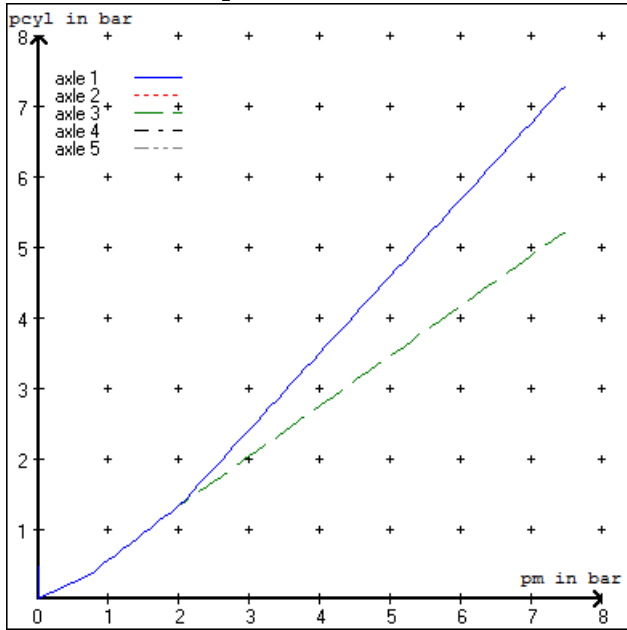
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

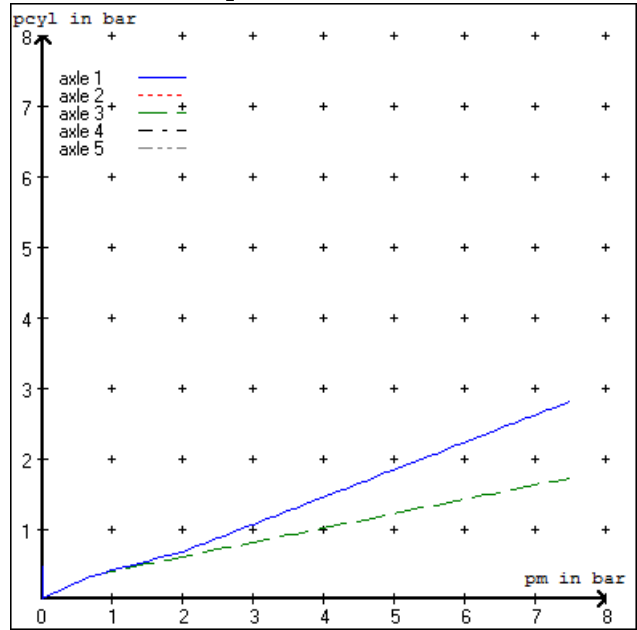
brake cylinder: Meritor 1416HTLD64

| | | | | | | | |
|-----------------------------|----------------|-------|-------|-------|-------|-------|--|
| test type III (zIII = 0.30) | for rdyn min : | axle1 | axle2 | axle3 | axle4 | axle5 | |
| at pm 3.7 bar => | pcha in bar : | 3.1 | 3.1 | 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 : | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | |

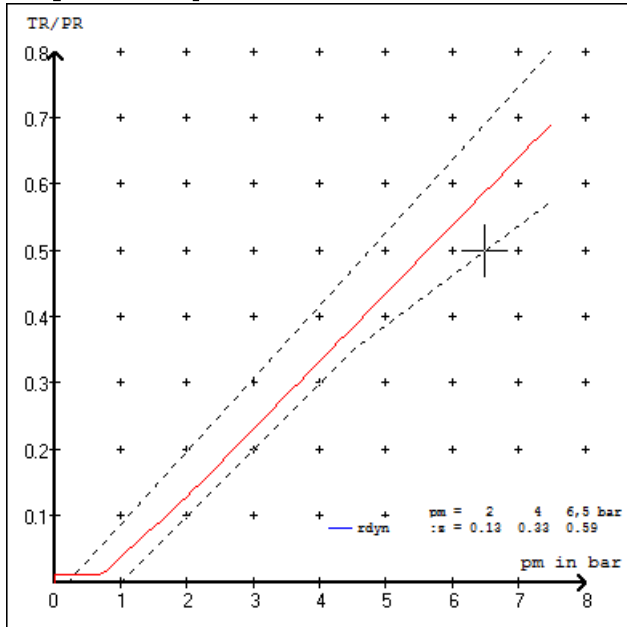
brake chamber pressure laden



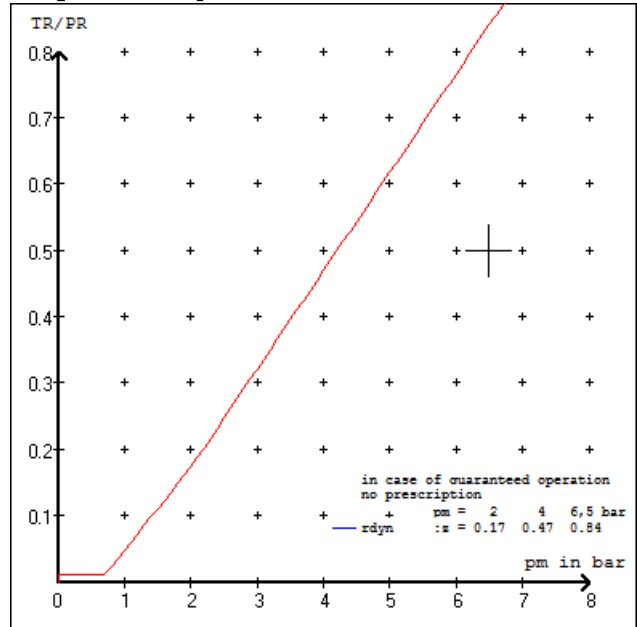
brake chamber pressure unladen



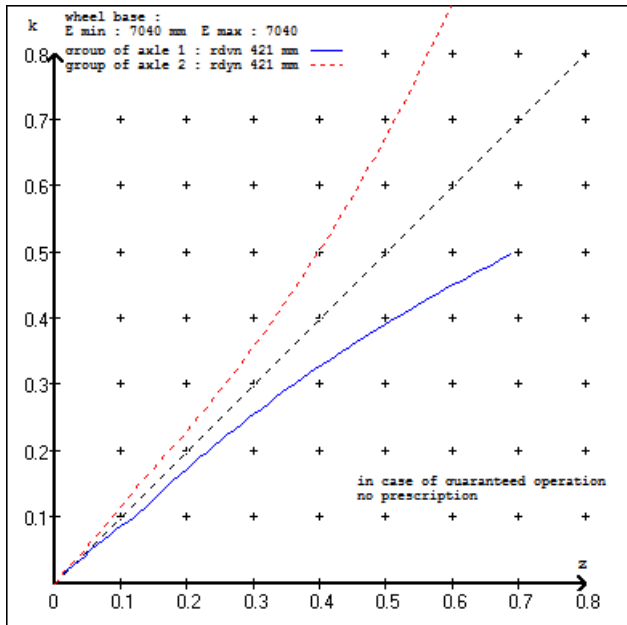
compatibility band laden



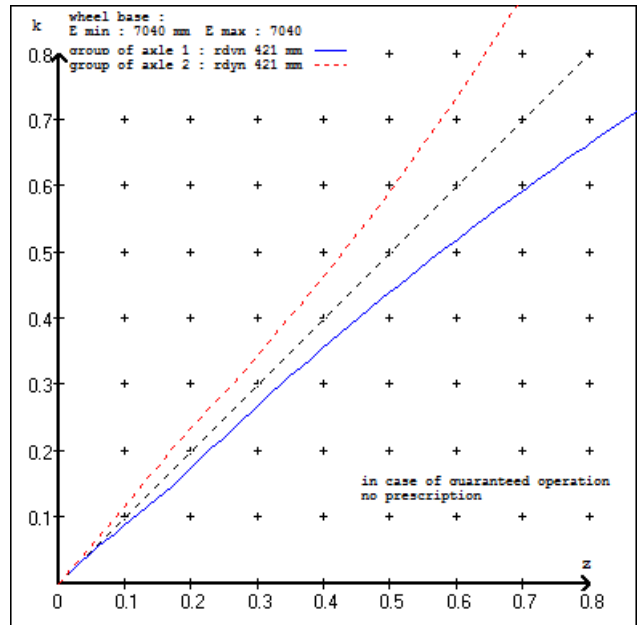
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT T&T
 trailer model : 5AX F/T TIPPER
 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 T.14/16 (Meritor) lever length 69 mm

brake diagram :

valve :

971 002 ... 0 WABCO EBS emergency valve
 480 207 0.. 0 WABCO EBS relay valve
 480 102 ... 0 WABCO EBS trailer modulator

EBS input data

=====
 vehicle manufacturer: DOMETT T&T
 trailer model : 5AX F/T TIPPER
 trailer type : 5-axle-full-trailer
 brake calculation no. : TP 50588A

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

assignment pm / deceleration z: pm 0.7 bar z = 0.000
 (laden condition) 2.0 bar z = 0.132
 6.5 bar z = 0.590

| control pressure pm | | | 6,5 | control pressure pm | | | 0.7 | 2.0 | 6.5 |
|---------------------|-------------------|--|-------------------|---------------------|--|-----------------|-----|-----|-----|
| axle | axle load unladen | bellow pr. unladen | brake pr. unladen | axle load laden | bellow pr. laden | brake pr. laden | | | |
| 1 | 1850 | to be | 2.4 | 7250 | to be | 0.3 | 1.3 | 6.2 | |
| 2 | 1850 | entered by the vehicle manufact. | 2.4 | 7250 | entered by the vehicle manufact. | 0.3 | 1.3 | 6.2 | |
| 3 | 1170 | | 1.5 | 6000 | | 0.3 | 1.3 | 4.5 | |
| 4 | 1170 | | 1.5 | 6000 | | 0.3 | 1.3 | 4.5 | |
| 5 | 1170 | | 1.5 | 6000 | | 0.3 | 1.3 | 4.5 | |
| | | | | | | | | | |

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 | axle load pcyl | axle load pcyl |
| 1850 2.4 | 1850 2.4 | 1170 1.5 | 1170 1.5 | 1170 1.5 |
| 2350 2.8 | 2350 2.8 | 1670 1.8 | 1670 1.8 | 1670 1.8 |
| 2850 3.1 | 2850 3.1 | 2170 2.1 | 2170 2.1 | 2170 2.1 |
| 3350 3.5 | 3350 3.5 | 2670 2.4 | 2670 2.4 | 2670 2.4 |
| 3850 3.8 | 3850 3.8 | 3170 2.7 | 3170 2.7 | 3170 2.7 |
| 4350 4.2 | 4350 4.2 | 3670 3.1 | 3670 3.1 | 3670 3.1 |
| 4850 4.5 | 4850 4.5 | 4170 3.4 | 4170 3.4 | 4170 3.4 |
| 5350 4.9 | 5350 4.9 | 4670 3.7 | 4670 3.7 | 4670 3.7 |
| 7250 6.2 | 7250 6.2 | 6000 4.5 | 6000 4.5 | 6000 4.5 |

data sheet to EC/ECE vehicle type-approval certificate concerning braking equipment: according to 98/12/EC annex IX 2.7.4 / ECE R13 annex 11

| | | | |
|--------|-----------------------|--------------|-------------------------|
| axle 1 | : reference axle: SAF | SBW 1937-... | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 13.10.2008 |
| axle 2 | : reference axle: SAF | SBW 1937-... | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 13.10.2008 |
| axle 3 | : reference axle: SAF | SBW 1937-... | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 13.10.2008 |
| axle 4 | : reference axle: SAF | SBW 1937-... | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 13.10.2008 |
| axle 5 | : reference axle: SAF | SBW 1937-... | brake lining: Jurid 539 |
| | test report : | TDB 0749 ECE | date : 13.10.2008 |

calc. verif. of residual (hot) braking force type III
(item 4.2 of appendix I to annex VII)

| | | |
|--------|---------------|---------------|
| axle 1 | (rdyn 421 mm) | T = 22.1 % Fe |
| axle 2 | (rdyn 421 mm) | T = 22.1 % Fe |
| axle 3 | (rdyn 421 mm) | T = 17.1 % Fe |
| axle 4 | (rdyn 421 mm) | T = 17.1 % Fe |
| axle 5 | (rdyn 421 mm) | T = 17.1 % Fe |

calculated actuator stroke in mm
(item 4.3.1.1 of appendix I to annex VII)

| | | |
|--------|--------------|-----------|
| axle 1 | (sp = 57 mm) | s = 39 mm |
| axle 2 | (sp = 57 mm) | s = 39 mm |
| axle 3 | (sp = 56 mm) | s = 39 mm |
| axle 4 | (sp = 56 mm) | s = 39 mm |
| axle 5 | (sp = 56 mm) | s = 39 mm |

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

| | |
|-------|--------------|
| axle1 | ThA = 5988 N |
| axle2 | ThA = 5988 N |
| axle3 | ThA = 4285 N |
| axle4 | ThA = 4285 N |
| axle5 | ThA = 4285 N |

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix I to annex VII)

| | | |
|--------|---------------|-------------|
| axle 1 | (rdyn 421 mm) | T = 35683 N |
| axle 2 | (rdyn 421 mm) | T = 35683 N |
| axle 3 | (rdyn 421 mm) | T = 25468 N |
| axle 4 | (rdyn 421 mm) | T = 25468 N |
| axle 5 | (rdyn 421 mm) | T = 25468 N |

| | | |
|---|-------------|--------------|
| | basic test | type III |
| | of subject | (calculated) |
| | trailer (z) | residual |
| braking rate of the vehicle | | (hot)braking |
| (item 4.3.2 to appendix I to annex VII) | 0.59 | 0.46 |

required braking rate $\geq 0,4$ and $\geq 0,6 * z$ (0.35)
(items 1.3.3 and 1.6.2 to annex II)

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix I to annex VII)

| | | |
|--------|---------------|-------------|
| axle 1 | (rdyn 421 mm) | T = 35683 N |
| axle 2 | (rdyn 421 mm) | T = 35683 N |
| axle 3 | (rdyn 421 mm) | T = 25468 N |
| axle 4 | (rdyn 421 mm) | T = 25468 N |
| axle 5 | (rdyn 421 mm) | T = 25468 N |

| | | |
|---|-------------|--------------|
| | basic test | type III |
| | of subject | (calculated) |
| | trailer (z) | residual |
| braking rate of the vehicle | | (hot)braking |
| (item 4.3.2 to appendix I to annex VII) | 0.59 | 0.46 |

required braking rate $\geq 0,4$ and $\geq 0,6 * z$ (0.35)
(items 1.3.3 and 1.6.2 to annex II)

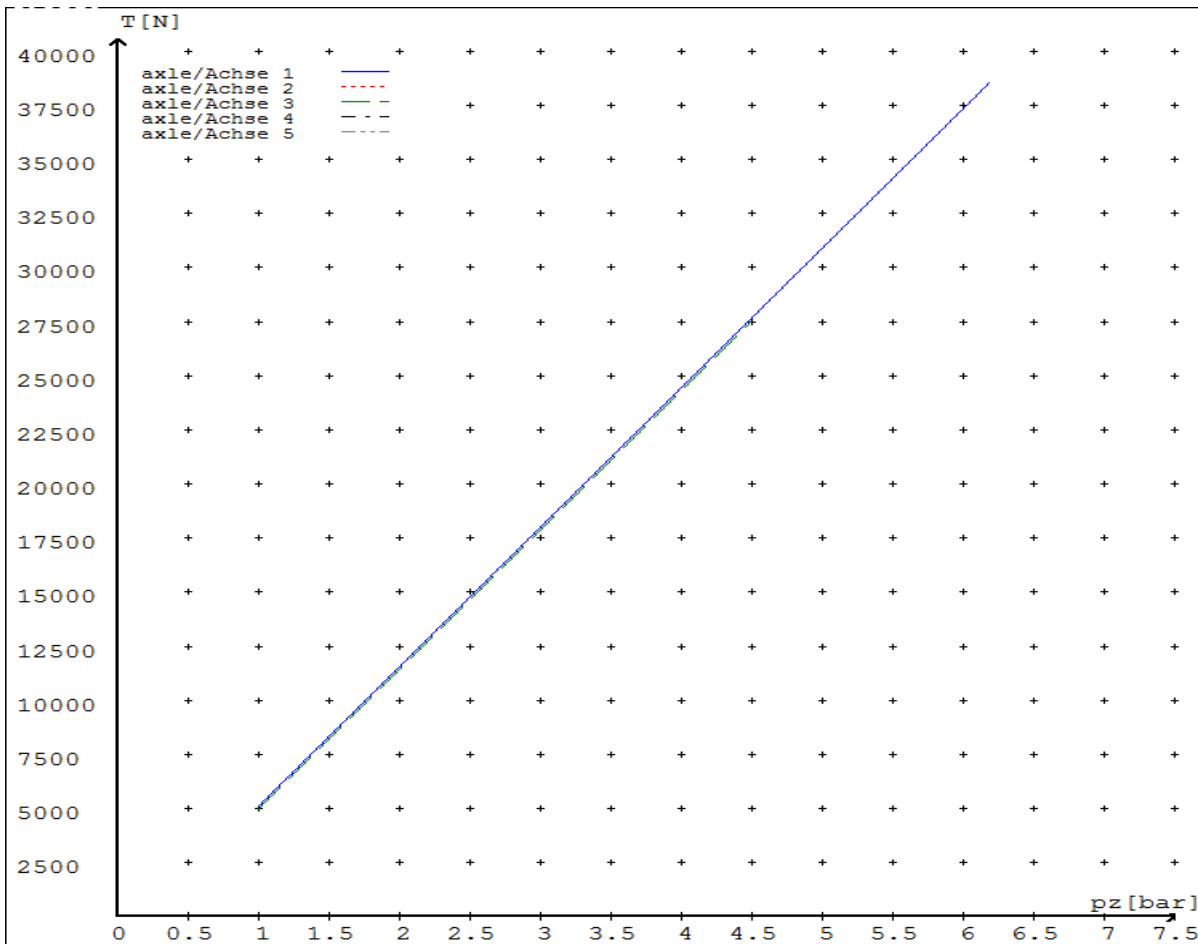
reference values

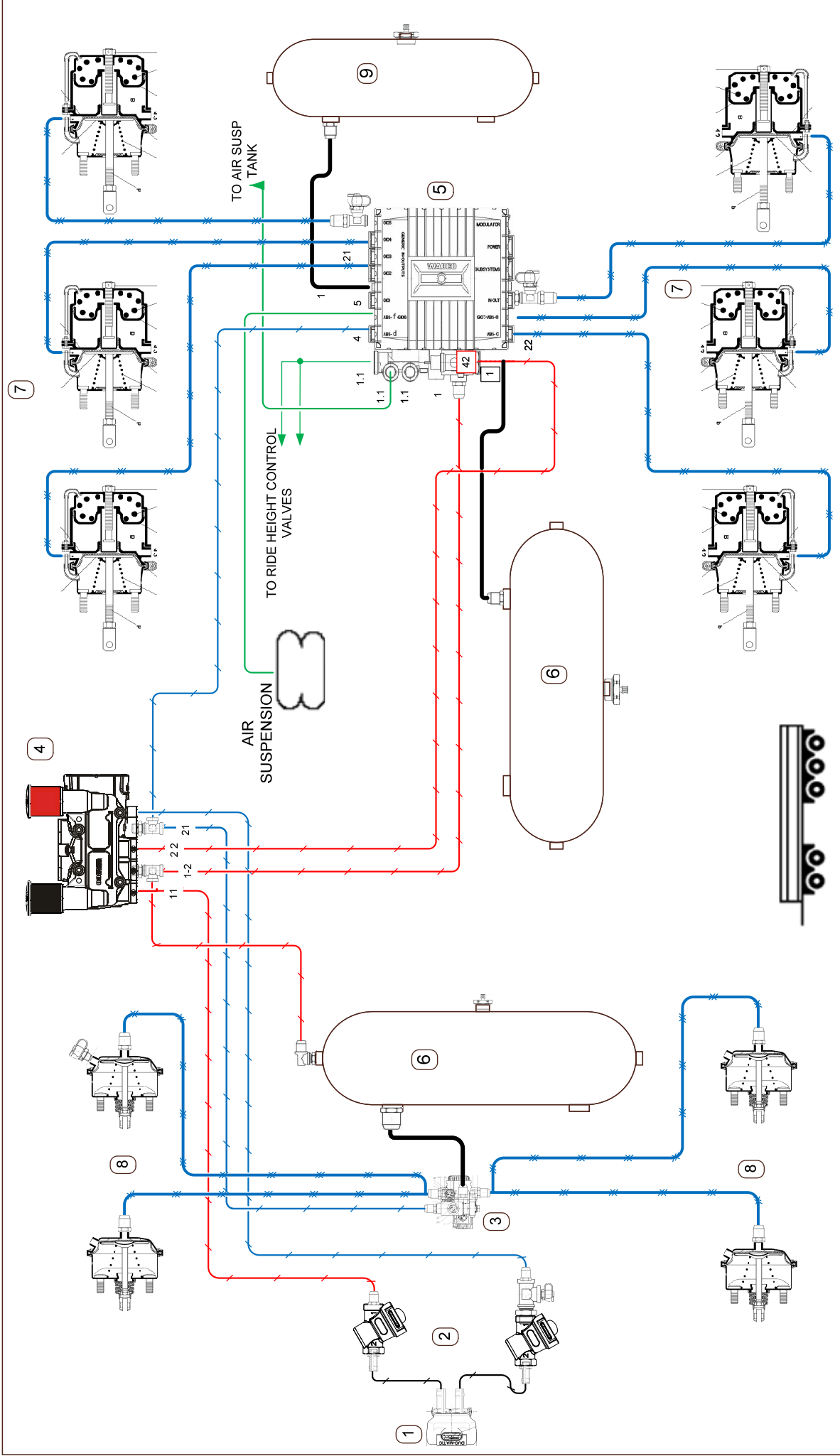
reference values for z = 50% for max rdyn: 421 mm

| | pz [bar] | T [N] | T [N] |
|--------|----------|-------|-------|
| axle 1 | 1.0 | 5047 | |
| | 6.2 | 38532 | |
| axle 2 | 1.0 | 5047 | |
| | 6.2 | 38532 | |
| axle 3 | 1.0 | | 4942 |
| | 4.5 | | 27481 |
| axle 4 | 1.0 | | 4942 |
| | 4.5 | | 27481 |
| axle 5 | 1.0 | | 4942 |
| | 4.5 | | 27481 |

VIN - no.:

| | Axle(s) / Achse(n) | | | | |
|---|--------------------|-------|---------|---------|---------|
| brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest) | 14./ | 14./ | T.14/16 | T.14/16 | T.14/16 |
| 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 |





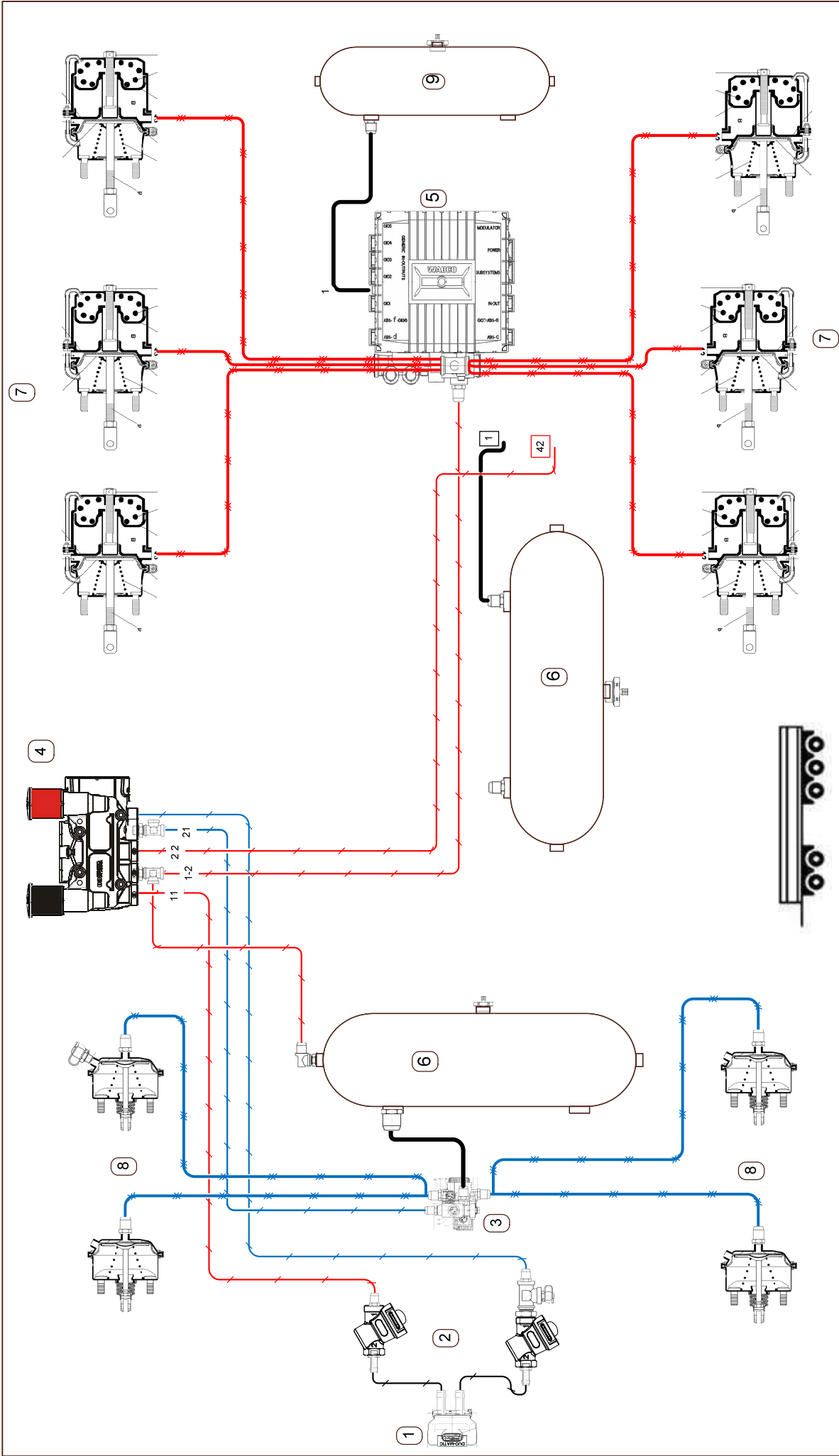
| ITEM | | QTY. | PART NO. | DESCRIPTION | ITEM | QTY. | PART NO. | DESCRIPTION | PIPING LEGEND: |
|------|---|---------------|---------------------------|-------------|------|--------|-----------------|-------------|----------------|
| 1 | 1 | 452 804 001 0 | Wabco Duo-Matic coupling | 9 | 1 | 9534 | 25Ltr Tank | 3/8" Rubber | --- |
| 2 | 2 | 432 500 020 0 | Wabco control line filter | 10 | | | | 3/8" Rubber | --- |
| 3 | 1 | 480 207 001 0 | Wabco EBS 3" modulator | 11 | | | | 1/2" Rubber | --- |
| 4 | 1 | 971 002 900 0 | Wabco PREV | 12 | | | | 15mm Nylon | --- |
| 5 | 1 | 480 102 064 0 | Wabco TEBS - E (premium) | | | | | 12mm Nylon | --- |
| 6 | 2 | 12593P | 50 Ltr Air tank | | | | | 8mm Nylon | --- |
| 7 | 4 | 2430GC** | TSE Spring brake chamber | ** | 4 | 1416GC | TSE disc option | 8mm Nylon | --- |
| 8 | 4 | 24S | TSE Service brake chamber | ** | 4 | 14S | TSE disc option | 8mm Nylon | --- |

Domett T&T

DOM5AXFULL/EBS



| | | | | | | | |
|-------|----|----------------|------|--------------|------|-----|---|
| SIZE | A4 | SPEC REFERENCE | 1031 | MODEL NUMBER | 3501 | REV | 1 |
| SCALE | | SERVICE LINES | | | | | |



| ITEM | | QTY. | PART NO. | DESCRIPTION | ITEM | QTY. | PART NO. | DESCRIPTION | PIPING LEGEND: |
|------|---|---------------|---------------------------|-------------|------|--------|-----------------|-------------|----------------|
| 1 | 1 | 452 804 001 0 | Wabco Duo-Matic coupling | 9 | 1 | 9534 | 25Ltr Air tank | 3/8" Rubber | --- |
| 2 | 2 | 432 500 020 0 | Wabco control line filler | 10 | | | | 3/8" Rubber | --- |
| 3 | 1 | 480 207 001 0 | Wabco EBS 3" modulator | 11 | | | | 1/2" Rubber | --- |
| 4 | 1 | 971 002 900 0 | Wabco PREV | 12 | | | | 15mm Nylon | --- |
| 5 | 1 | 480 102 064 0 | Wabco TEBS - E (premium) | | | | | 12mm Nylon | --- |
| 6 | 2 | 12593P | 50 Ltr Air tank | | | | | 8mm Nylon | --- |
| 7 | 4 | 2430GC** | TSE Spring brake chamber | ** | 4 | 1416GC | TSE disc option | 8mm Nylon | --- |
| 8 | 4 | 24S | TSE Service brake chamber | ** | 4 | 14S | TSE disc option | 8mm Nylon | --- |

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SIZE A4
 SCALE
 SPEC REFERENCE 1031
 MODEL NUMBER 3501
 REV 1
 PARK LINES