

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* VIN/Chassis Number
7A9E38116F1023421

Component being certified:

| | | |
|--|--|---------------------------------------|
| <input type="checkbox"/> Chassis | <input type="checkbox"/> Load Anchorage | <input type="checkbox"/> Log Bolsters |
| <input type="checkbox"/> Towing Connection | <input checked="" type="checkbox"/> Brakes | <input type="checkbox"/> SRT |
| <input type="checkbox"/> PSV Stability | <input type="checkbox"/> PSV Rollover | <input type="checkbox"/> Swept Path |
| <input type="checkbox"/> PBS | | |

Certification Category
HVEK

Description of Work

CERTIFY TO SCHEDULE 5

ROLL STABILTY FUNCTION ACTIVATED

| | |
|--|---|
| Code/Standard/Rule Certified to HVBR 32015/3 Schedule 5 | Component Load Rating(s) 35000KG |
| General Drawing Number(s) N/A | |

Supporting Documents
BRAKE RULE CERTIFICATE - CJC153497

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

Certification Expiry Date (if applicable) or Hubodometer Reading (whichever comes first)

N/A

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) ID Number
CHRIS CLARKE CJC

Date Number
27-Nov-15 531397

| | | |
|--------------------------|---------------------------------|----------------------|
| CoF Vehicle Inspector ID | CoF Vehicle Inspector Signature | Date |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |

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

WABCO

START-UP PROTOCOL

| | | | |
|---|--|-------------------|---------------|
| System | Trailer EBS-E | WABCO part number | 480 102 080 0 |
| Production date | 2015-06-12 | Serial number | 437001459500B |
| Serial number (modulator) | 000000040957 | | |
| Fingerprint Customer EOL / Customer Development / Flash Program | W503643 / 2015-11-27 ; 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 | | 5AFT TIP-OVER AXLE | | 1 | | 24V-O1 | | --- | | --- | | | | | | | | | | | | | | | | | | | | | |
| FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS | | 7A9E38116F1023421 | | 2 | | --- | | --- | | --- | | | | | | | | | | | | | | | | | | | | | |
| BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO. | | TP51364A | | 3 | | ALS2 | | ALS2 | | --- | | | | | | | | | | | | | | | | | | | | | |
| POLRADZAHNEZAHN c-d e-f POLE WHEEL TEETH c-d e-f DENTS ROUE DENTEE c-d e-f | | 90 90 | | 4 | | --- | | --- | | --- | | | | | | | | | | | | | | | | | | | | | |
| ABS-System ABS system Système ABS | | 4S/3M | | 5 | | DIAG | | DIAG | | DIAG | | | | | | | | | | | | | | | | | | | | | |
| Einfachbereifung Single Tire Monte simple | | | | 6 | | --- | | --- | | --- | | | | | | | | | | | | | | | | | | | | | |
| Zwillingsbereifung Twin Tire Monte jumelée | | X | | 7 | | --- | | --- | | --- | | | | | | | | | | | | | | | | | | | | | |
| Subsystems | | SB | | I/O | | 24N | | | | | | | | | | | | | | | | | | | | | | | | | |
| ACHSE AXLE ESSIEU | | pm (bar) | | 6.5 | | pm (bar) | | 0.6 | | 2.0 | | --- | | 6.5 | | pz | | TYP TYPE | | (mm) | | (mm) | | (bar) | | 1.0 | | Pz | | | |
| 1 | | 1900 | | 0.7 | | 2.7 | | 8000 | | 4.9 | | 0.4 | | 1.5 | | --- | | 6.6 | | - | | 20 / 16 | | 65 | | 74 | | 484 | | 4572 | |
| 2 | | 1900 | | 0.7 | | 2.7 | | 8000 | | 4.9 | | 0.4 | | 1.5 | | --- | | 6.6 | | - | | 20 / 16 | | 65 | | 74 | | 484 | | 4572 | |
| 3 | | 1200 | | 0.4 | | 1.6 | | 6400 | | 3.9 | | 0.4 | | 1.7 | | --- | | 4.6 | | - | | 16 / 24 | | 64 | | 74 | | 418 | | 2702 | |
| 4 | | 1200 | | 0.4 | | 1.6 | | 6400 | | 3.9 | | 0.4 | | 1.7 | | --- | | 4.6 | | - | | 16 | | 64 | | 74 | | 418 | | 2702 | |
| 5 | | 1200 | | 0.4 | | 1.6 | | 6400 | | 3.9 | | 0.4 | | 1.7 | | --- | | 4.6 | | - | | 16 | | 64 | | 74 | | 418 | | 2702 | |

TEBS-E

| | | | |
|-----------------------|-------------|--------------------------------|------------|
| Diagnostic memory | OK | Warning lamp control | OK |
| Parameter setting | carried out | Stop light power 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 check | 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 | 7A9E38116F1023421 |
| Vehicle type | 5AFT TIP-OVER AXLE | Odometer reading | 0.0 km |
| next Service | 0 km | Trip reading | 0.0 km |
| Tester | Chris Clarke | Signature | |
| Date | 2015-11-27 8:43:23 a.m. | | |

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

distribution: DOMETT TRAILERS
 7A9E38116F1023421
 SODC: JH151126
 LT400: CJC 531397

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 (V6.14.04.20).
 -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 08.07.2014

vehicle manufacturer: DOMETT TRAILERS
 trailer model : 5AFT TIP-OVER AXLE
 trailer type : 5-axle-full-trailer
 remarks : air / hydraulic / VA suspension
 WABCO TRAILER - EBS
 TRISTOP 1+2: T.20/24 (TSE2016HTLD65 ACTUALLY FITTED
 SEE PAGE 7 FOR PERFORMANCE DATA)
 TRISTOP 3: T.16/24
 265/70 R 19,5

axle 1 + 2 + 3 + 4 + 5 : Assali Stefen, ELSA 195 LE, 361-0071-04 ext05 ECE,

| | | <u>unladen</u> | <u>laden</u> |
|--------------------------|----------|----------------|--------------|
| total mass | P in kg | 7400 | 35200 |
| axle 1 | P1 in kg | 1900 | 8000 |
| axle 2 | P2 in kg | 1900 | 8000 |
| axle 3 | P3 in kg | 1200 | 6400 |
| axle 4 | P4 in kg | 1200 | 6400 |
| axle 5 | P5 in kg | 1200 | 6400 |
| wheel base | E in mm | 6950 - 6950 | |
| centre of gravity height | h in mm | 1035 | 2283 |

| | <u>axle 1</u> | <u>axle 2</u> | <u>axle 3</u> | <u>axle 4</u> | <u>axle 5</u> |
|-------------------------------------|----------------|---------------|---------------|---------------|---------------|
| 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 119.6 | BZ 119.6 | BZ 119.6 | BZ 122.1 | BZ 122.1 |
| brake chamber manufacturer | Meritor | Meritor | Meritor | Meritor | Meritor |
| chamber size | T.20/24 | T.20/24 | T.16/24 | 16. | 16. |
| lever length | lBh in mm | 74 | 74 | 74 | 74 |
| brake factor | [-] | 20.26 | 20.26 | 20.26 | 20.26 |
| 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 | 2.4 | 2.4 | 2.2 | 2.2 | 2.2 |
| chamber pressure(rdyn max)pH at z=22,5%bar | 2.4 | 2.4 | 2.2 | 2.2 | 2.2 |
| chamber press.(servo)pcha at pm6,5bar | 6.6 | 6.6 | 4.6 | 4.6 | 4.6 |
| piston force | ThA at pm6,5bar | 7687 | 7687 | 4555 | 4555 |
| brake force(rdyn min)T lad. at pm6,5bar | N | 54958 | 54958 | 32489 | 32489 |
| brake force(rdyn max)T lad. at pm6,5bar | N | 54958 | 54958 | 32489 | 32489 |
| brake force within 1 % rolling friction proportion | % | 21.7 | 21.7 | 18.9 | 18.9 |

braking rate z laden 0.601 for rdyn min
 z = sum (TR)/PRmax 0.601 for rdyn max

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

brake diagram :

maximum pressure: 8.5 bar

axle 1:

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

valve 2: 480 207 0.. 0 WABCO or 480 207 2.. 0
 EBS relay valve

brake cylinder: Meritor 2024HTLD65

axle 2:

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

valve 2: 480 207 0.. 0 WABCO or 480 207 2.. 0
 EBS relay valve

brake cylinder: Meritor 2024HTLD65

axle 3:

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

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

brake cylinder: Meritor 1624HTLD64

axle 4:

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

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

brake cylinder: Meritor 16HSCLD64

axle 5:

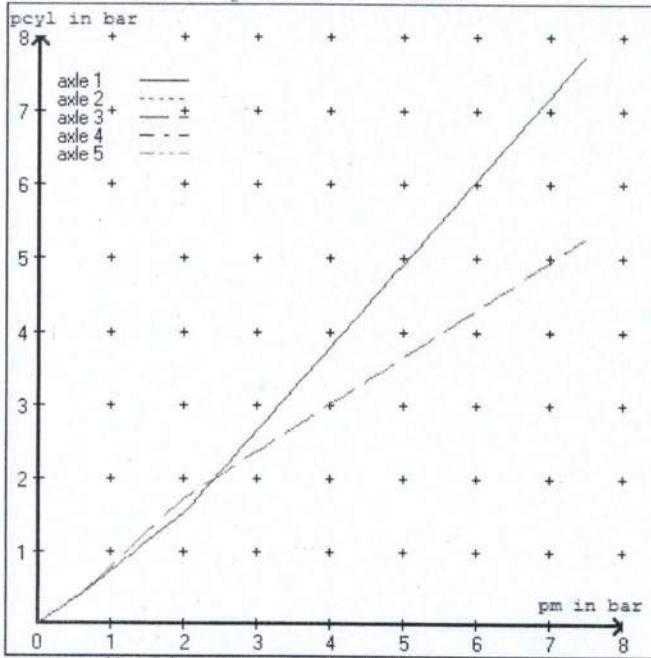
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

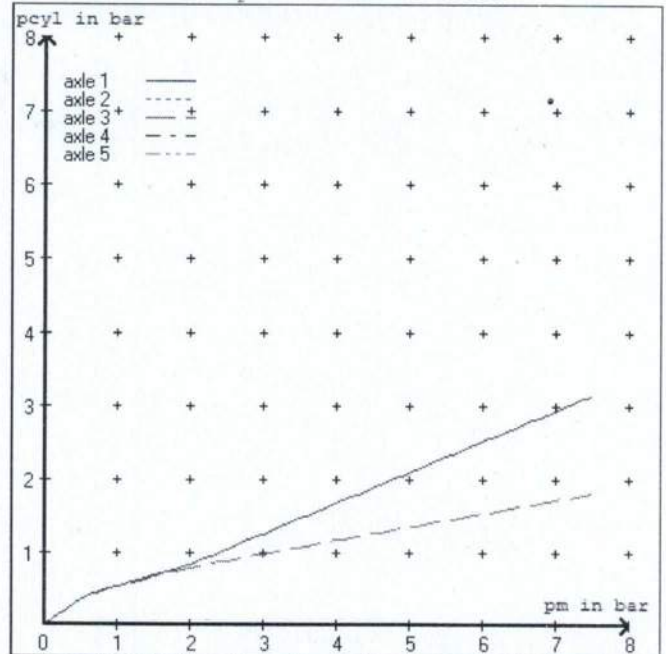
brake cylinder: Meritor 16HSCLD64

| | | | | | | | |
|-----------------------------|----------------|-------|-------|-------|-------|-------|-----|
| test type III (zIII = 0.30) | for rdyn min : | axle1 | axle2 | axle3 | axle4 | axle5 | |
| at pm 3.5 bar => | pcha in bar : | 3.2 | 3.2 | 2.7 | 2.7 | 2.7 | 2.7 |
| test type III (zIII = 0.06) | for rdyn min : | axle1 | axle2 | axle3 | axle4 | axle5 | |
| at pm 1.1 bar => | pcha in bar : | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 |

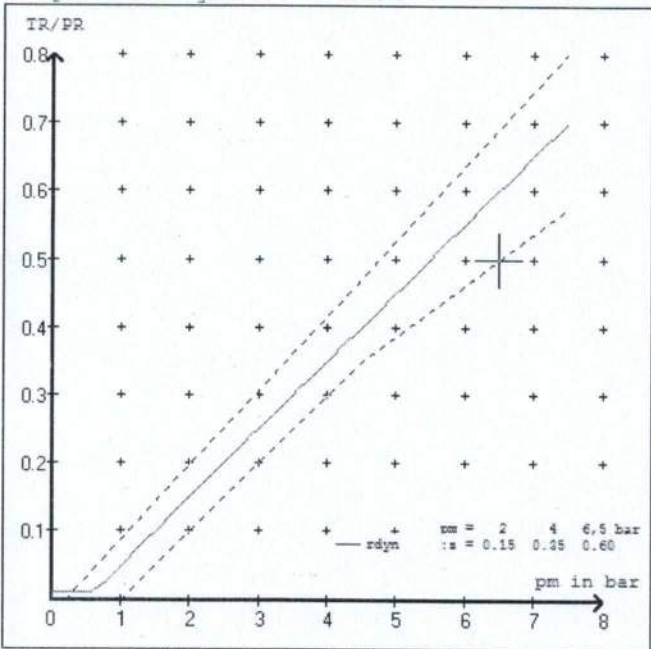
brake chamber pressure laden



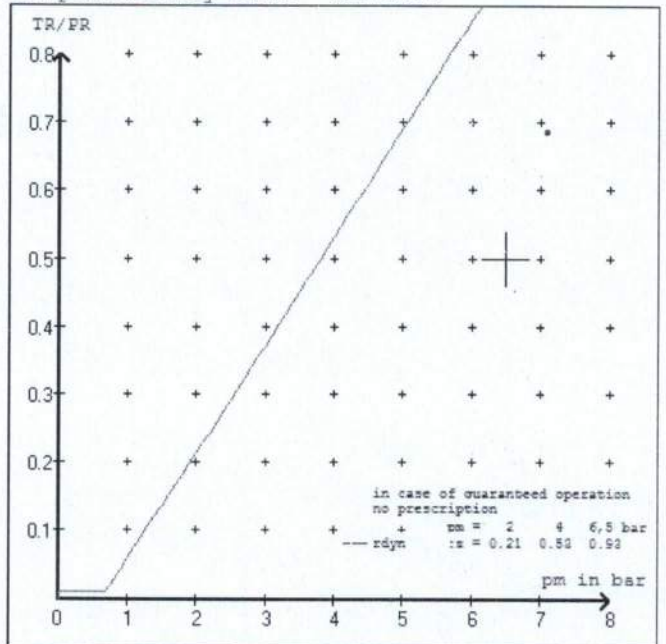
brake chamber pressure unladen



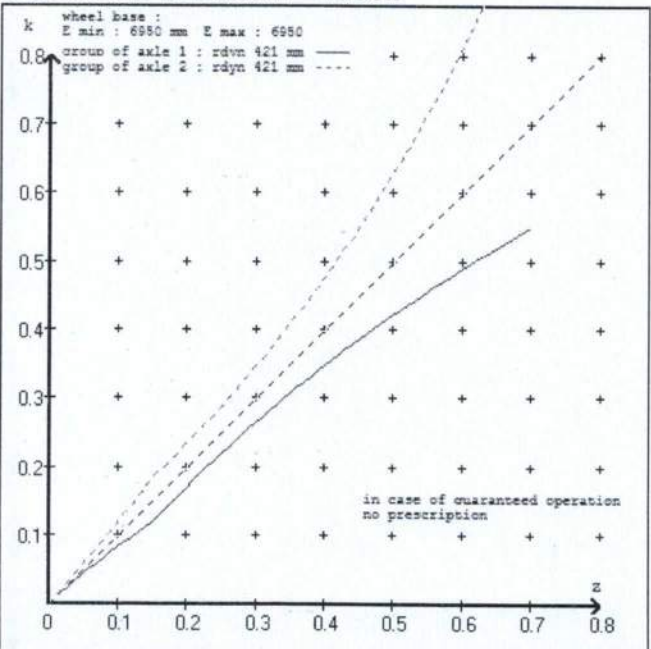
compatibility band laden



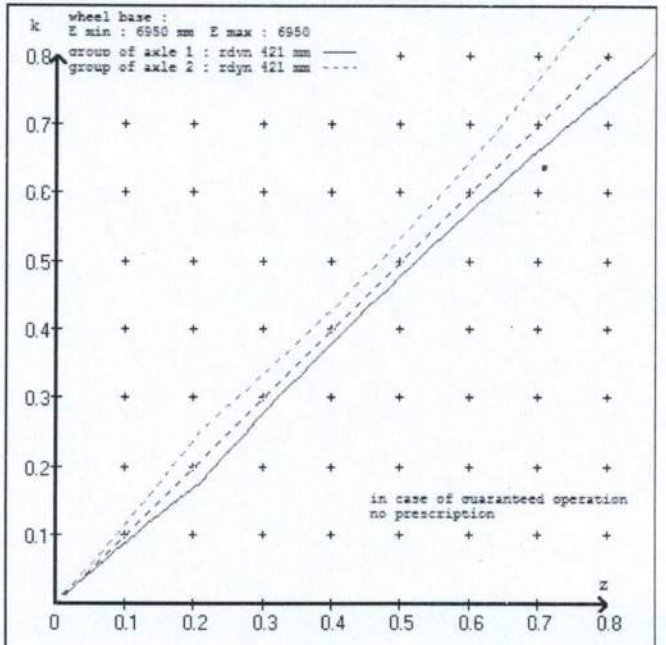
compatibility band unladen



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT TRAILERS
 trailer model : 5AFT TIP-OVER AXLE
 trailer type : 5-axle-full-trailer

brake chamber and lever length :

axle 1 : 2 x type/diameter T.20/24 (Meritor) lever length 74 mm
 axle 2 : 2 x type/diameter T.20/24 (Meritor) lever length 74 mm
 axle 3 : 2 x type/diameter T.16/24 (Meritor) lever length 74 mm
 axle 4 : 2 x type/diameter 16. (Meritor) lever length 74 mm
 axle 5 : 2 x type/diameter 16. (Meritor) lever length 74 mm

brake diagram :

valve :

971 002 ... 0 WABCO EBS emergency 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 TRAILERS
 trailer model : 5AFT TIP-OVER AXLE
 trailer type : 5-axle-full-trailer
 brake calculation no. : TP 51364A

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

assignment pm / deceleration z: pm 0.6 bar z = 0.010
 (laden condition) 2.0 bar z = 0.150
 6.5 bar z = 0.600

| control pressure pm | | | 6,5 | control pressure pm | | | 0.6 | 2.0* | 6.5 |
|---------------------|-------------------|--|-------------------|---------------------|--|-----------------|-----|------|-----|
| axle | axle load unladen | bellow pr. unladen | brake pr. unladen | axle load laden | bellow pr. laden | brake pr. laden | | | |
| 1 | 1900 | to be | 2.7 | 8000 | to be | 0.4 | 1.5 | 6.6 | |
| 2 | 1900 | entered by the vehicle manufact. | 2.7 | 8000 | entered by the vehicle manufact. | 0.4 | 1.5 | 6.6 | |
| 3 | 1200 | | 1.6 | 6400 | | 0.4 | 1.7 | 4.6 | |
| 4 | 1200 | | 1.6 | 6400 | | 0.4 | 1.7 | 4.6 | |
| 5 | 1200 | | 1.6 | 6400 | | 0.4 | 1.7 | 4.6 | |
| | | | | | | | | | |

The unladen values indicated in the above table are values for the basic parameter set. Higher unladen axle loads and liftaxles are automatically recognized and do not require separate adjustment. The above unladen axle loads must not be fallen below.

=====

| axle 1 | axle 2 | axle 3 | axle 4 | axle 5 |
|----------------|----------------|----------------|----------------|----------------|
| axle load pcy1 | axle load pcy1 | axle load pcy1 | axle load pcy1 | axle load pcy1 |
| 1900 2.7 | 1900 2.7 | 1200 1.6 | 1200 1.6 | 1200 1.6 |
| 2400 3.0 | 2400 3.0 | 1700 1.9 | 1700 1.9 | 1700 1.9 |
| 2900 3.3 | 2900 3.3 | 2200 2.2 | 2200 2.2 | 2200 2.2 |
| 3400 3.7 | 3400 3.7 | 2700 2.5 | 2700 2.5 | 2700 2.5 |
| 3900 4.0 | 3900 4.0 | 3200 2.8 | 3200 2.8 | 3200 2.8 |
| 4400 4.3 | 4400 4.3 | 3700 3.0 | 3700 3.0 | 3700 3.0 |
| 4900 4.6 | 4900 4.6 | 4200 3.3 | 4200 3.3 | 4200 3.3 |
| 5400 4.9 | 5400 4.9 | 4700 3.6 | 4700 3.6 | 4700 3.6 |
| 8000 6.6 | 8000 6.6 | 6400 4.6 | 6400 4.6 | 6400 4.6 |

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

| | |
|--|------------------------------|
| axle 1 : reference axle: Assali Stef---/--- ---/K---en | brake lining: ROR8616AF(M13) |
| test report : 361-0071-04 ext05 ECE | date : 17.06.2011 |
| axle 2 : reference axle: Assali Stef---/--- ---/K---en | brake lining: ROR8616AF(M13) |
| test report : 361-0071-04 ext05 ECE | date : 17.06.2011 |
| axle 3 : reference axle: Assali Stef---/--- ---/K---en | brake lining: ROR8616AF(M13) |
| test report : 361-0071-04 ext05 ECE | date : 17.06.2011 |
| axle 4 : reference axle: Assali Stef---/--- ---/K---en | brake lining: ROR8616AF(M13) |
| test report : 361-0071-04 ext05 ECE | date : 17.06.2011 |
| axle 5 : reference axle: Assali Stef---/--- ---/K---en | brake lining: ROR8616AF(M13) |
| test report : 361-0071-04 ext05 ECE | date : 17.06.2011 |

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 = 23.3 % Fe |
| axle 2 | (rdyn 421 mm) | T = 23.3 % Fe |
| axle 3 | (rdyn 421 mm) | T = 16.5 % Fe |
| axle 4 | (rdyn 421 mm) | T = 16.5 % Fe |
| axle 5 | (rdyn 421 mm) | T = 16.5 % Fe |

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

| | | |
|--------|--------------|-----------|
| axle 1 | (sp = 58 mm) | s = 37 mm |
| axle 2 | (sp = 58 mm) | s = 37 mm |
| axle 3 | (sp = 57 mm) | s = 37 mm |
| axle 4 | (sp = 57 mm) | s = 37 mm |
| axle 5 | (sp = 57 mm) | s = 37 mm |

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

| | |
|-------|--------------|
| axle1 | ThA = 7687 N |
| axle2 | ThA = 7687 N |
| axle3 | ThA = 4555 N |
| axle4 | ThA = 4555 N |
| axle5 | ThA = 4555 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 = 48832 N |
| axle 2 | (rdyn 421 mm) | T = 48832 N |
| axle 3 | (rdyn 421 mm) | T = 28890 N |
| axle 4 | (rdyn 421 mm) | T = 28890 N |
| axle 5 | (rdyn 421 mm) | T = 28890 N |

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

| | | |
|---|------|----------------------|
| braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11) | 0.60 | (hot)braking 0.53 |
|---|------|----------------------|

| | |
|--|-------------------------------|
| 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 = 48832 N |
| axle 2 | (rdyn 421 mm) | T = 48832 N |
| axle 3 | (rdyn 421 mm) | T = 28890 N |
| axle 4 | (rdyn 421 mm) | T = 28890 N |
| axle 5 | (rdyn 421 mm) | T = 28890 N |

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

| | | |
|---|------|----------------------|
| braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11) | 0.60 | (hot)braking 0.53 |
|---|------|----------------------|

| | |
|--|-------------------------------|
| 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 1</u> | <u>axle 2</u> | <u>axle 3</u> |
|---|---------------|---------------|---------------|
| no of TRISTOP-actuators per axle line KDZ | 2 | 2 | 2 |
| TRISTOP-actuator type | T.20/16 | T.20/16 | T.16/24 |
| lever length | 74 | 74 | 74 |
| stat. tyre radius | 401 | 401 | 401 |
| at a stroke of | 30 | 30 | 30 |
| min. force of spring brake | 6160 | 6160 | 7605 |
| sp.brake chamber no Meritor..... | 5 | 5 | 4 |
| release pressure | 4.5 | 4.5 | 4.8 |

calculation:

| | | | |
|--|--------|--------|--------|
| ratio until road | 3.7388 | 3.7388 | 3.7388 |
| $iFb = lBh \cdot \eta \cdot C \cdot rBt / (rBn \cdot rstat)$ | | | |
| for rstat in mm | 401 | 401 | 401 |
| brake force of spring br. Tf in N | 45455 | 45455 | 56260 |
| $Tf = (TFZ \cdot KDZ - 2 \cdot Co / lBh) \cdot iFb$ | | | |
| braking rate | 0.436 | | |
| $zf = \sum (Tf) / P + 0,01$ | | | |

Test of the frictional connection required by the parking brake

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

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

$$\min Ef = 4606 \text{ mm} \quad \text{for } E = 6950 \text{ mm}$$

$$\min Ef = 4606 \text{ mm} \quad \text{for } E = 6950 \text{ mm}$$

| | | |
|----------|------------|--|
| 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 | = 2283 mm | height of center of gravity - laden |
| PR | = 19200 kg | maximum bogie mass - laden |
| P | = 35200 kg | maximum total mass - laden |
| nf | = 3 | no. of axle(s) with TRISTOP spring brake actuators |
| ng | = 3 | no. of bogie axle(s) |

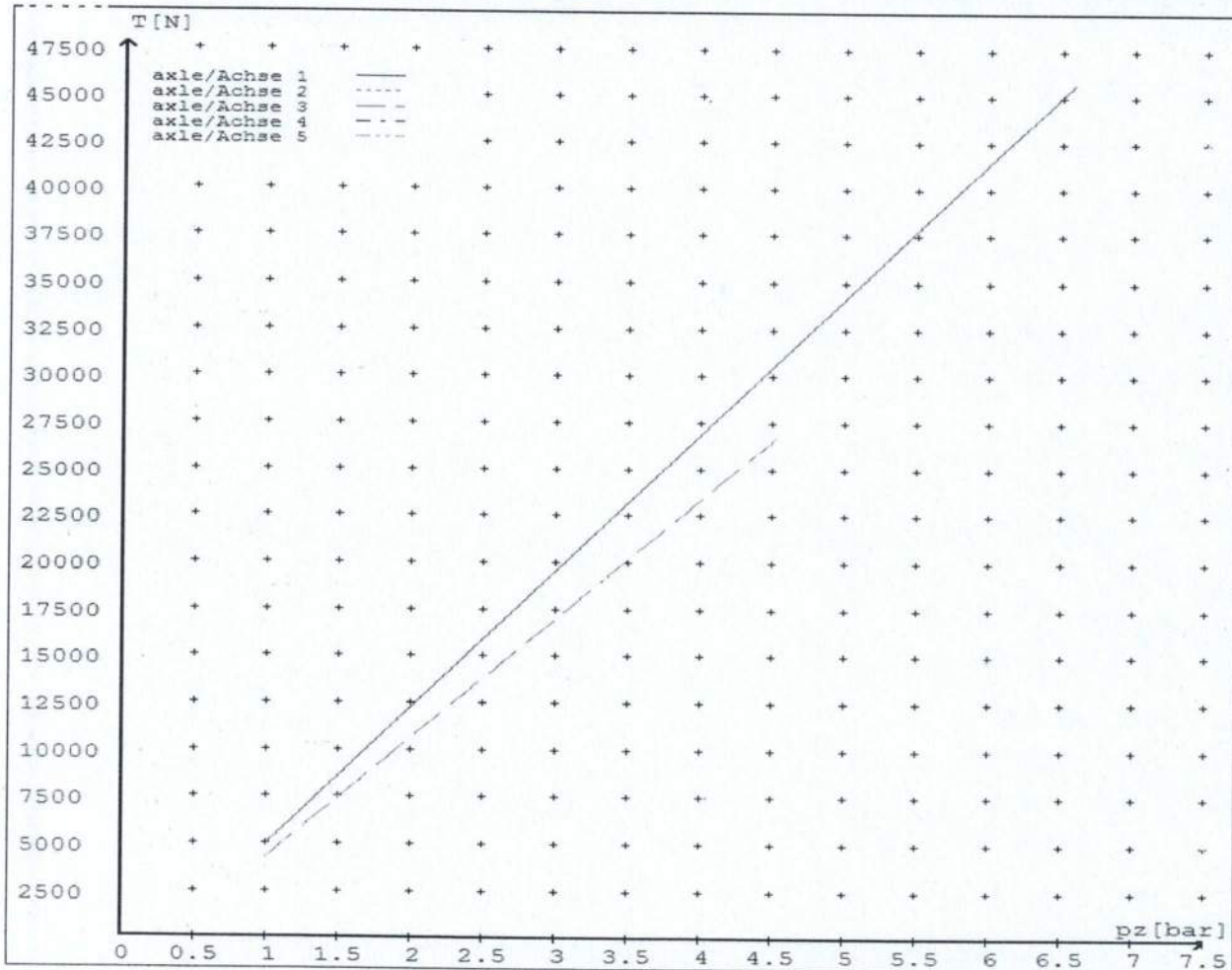
reference values

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

| | pz [bar] | T [N] | T [N] |
|--------|----------|-------|-------|
| axle 1 | 1.0 | 4842 | |
| | 6.6 | 45722 | |
| axle 2 | 1.0 | 4842 | |
| | 6.6 | 45722 | |
| axle 3 | 1.0 | | 4184 |
| | 4.6 | | 27030 |
| axle 4 | 1.0 | | 4184 |
| | 4.6 | | 27030 |
| axle 5 | 1.0 | | 4184 |
| | 4.6 | | 27030 |

VIN - no.:

| brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest) | Axle(s) / Achse(n) | | | | |
|---|--------------------|---------|---------|------|------|
| | T.20/24 | T.20/24 | T.16/24 | 16./ | 16./ |
| Maximum stroke smax = ...mm maximaler Hub smax =mm | 65 | 65 | 64 | 64 | 64 |
| Lever length =mm Hebellänge =mm | 74 | 74 | 74 | 74 | 74 |



HVBR WORKSHEET
(PROCEDURE & COMPLIANCE DOCUMENTATION SHEET)

CERTIFICATE No. JH151126

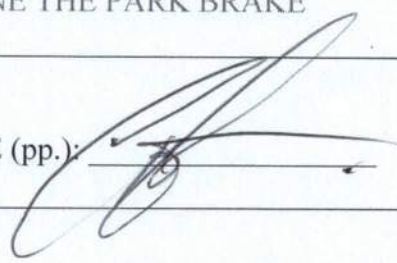
CUSTOMER NAME DOMETT TRAILERS LTD

CUSTOMER ORDER No. 4461 DATE RECEIVED Nov 2015

VEHICLE TYPE 5 AXLE FULL TRAILER

REG No. CHASSIS No. 7A9E38116F1023421

BRIEF SPECIFICATION AS CERTIFIED TO HVBR

| | | | |
|---|-------------------|---|---------------------|
| BRAKE CHAMBERS: | | | |
| <u>Ax #</u> | <u>Make/model</u> | <u>Max stroke</u> | <u>Lever length</u> |
| 1&2 | TSE 2016HSCLD65 | 65 mm | 74 mm |
| 3 | TSE 1624HTLD64 | 64 mm | 74 mm |
| 4&5 | TSE 16HSCLD64 | 64 mm | 74 mm |
| BRAKE SYSTEM: | | WABCO EBS : RSS ACTIVATED | |
| # TEST POINTS FITTED: | | 3 4 5 7 | |
| FRICITION LINING: | | <u>OEM</u> | Aftermarket |
| (All) Lining Brand | | ROR 8616 AF | |
| <u>EBS CONTROL:</u> SPECIAL CONDITIONS APPLY – SEE INSTRUCTION ON LT400: | | | |
| <u>VALVES:</u> AS PER BRAKE CALCULATION TP51364 & SO170202 | | | |
| <u>TYRE SIZE:</u> 265 70 R 19.5 | | | |
| NOTES | | | |
| PACKING SLIP NO. | SO170202 | PROCESS TIME: | 1 |
| BRAKE CALC #TP51364. THE MERITOR CHAMBERS ARE THE TSE VARIANT. THE 2024HTLD64 IN THE CALC ARE USED TO DETERMINE THE SERVICE BRAKE PERFORMANCE. 1616HTLD64 ARE USED TO DETERMINE THE PARK BRAKE PERFORMANCE. | | | |
| COMPLETION DATE : 20 th Nov 2015 | | SIGNATURE (pp.):  | |

Statement of Compliance with the New Zealand Heavy Brake Rule

Documentation required supporting 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 32015/3, Schedule 5.

Date: 20th Nov 2015

Signed (pp.):



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 32015/3, 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

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

(p.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)



NOTICE TO VEHICLE OPERATOR

WABCO Park Release Emergency Valve
(PREV)


This trailer is equipped with a WABCO PREV
Part # 971 002 900 0

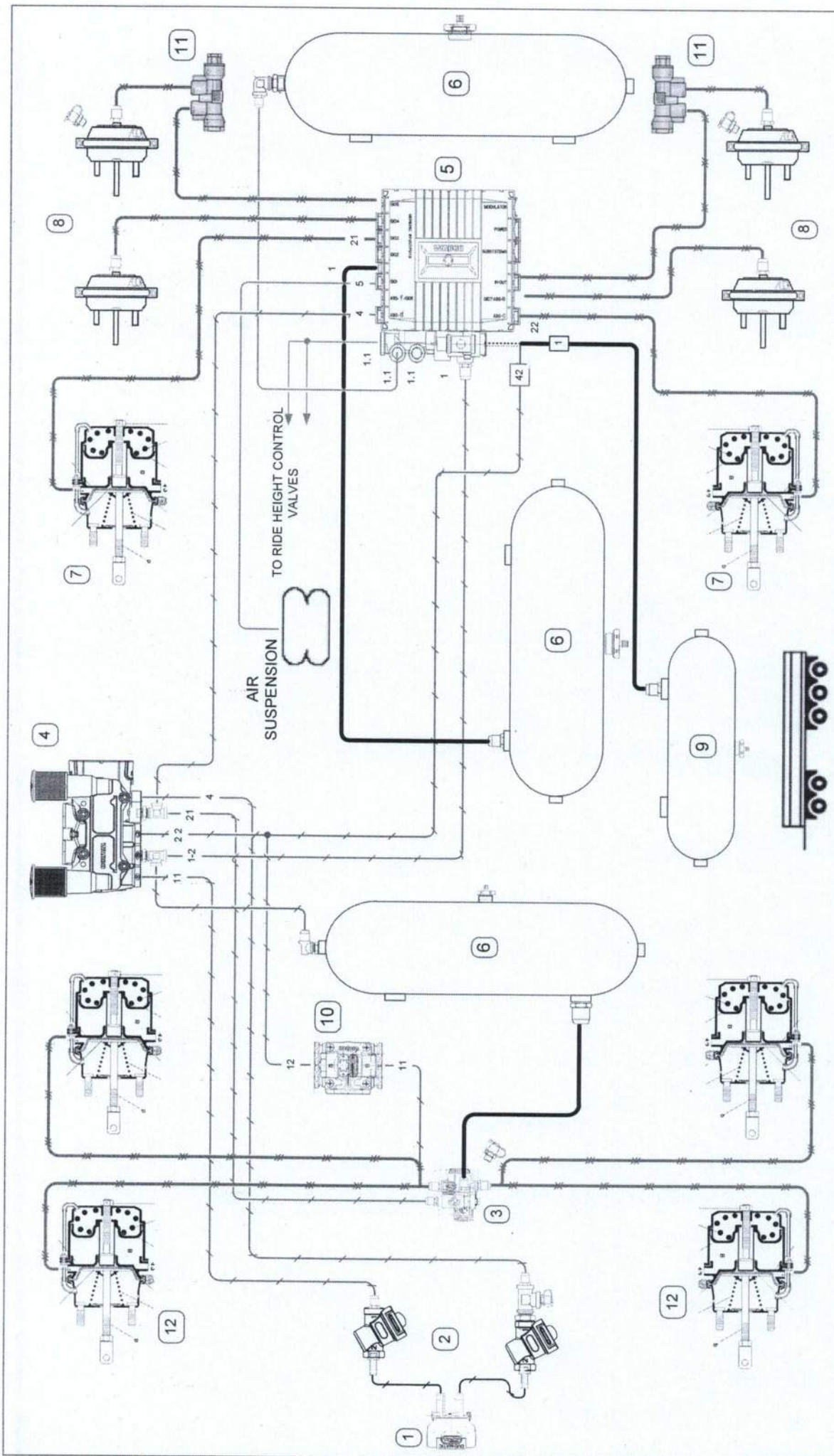
Application of the park brake via the cab control valve will actuate and apply all service brakes on the trailer. In the event of a leak in the service brake system the Spring Brakes will automatically override and hold the vehicle in compliance to Land Transport Rule: Heavy-vehicle Brakes Rule 32015/3.

When the vehicle is presented for COF the trailer park brake system is tested by pulling the red actuation knob on the PREV, situated mid way down the chassis rail. The cab control in the prime mover does not have to be applied for this test procedure.

If you are unsure of any aspect relating to this instruction please contact either the vehicle manufacturer or myself.

(p.p.)
J E Hirst
(JEH HVEK)
(09 980 7300)





| ITEM | | QTY. | PART NO. | DESCRIPTION | ITEM | QTY. | PART NO. | DESCRIPTION | PIPING LEGEND |
|------|---|---------------|---------------------------|-------------|------|-------------------|--------------------------|-------------|---------------|
| 1 | 1 | 452 804 001 0 | Wabco Duo-Matic coupling | 9 | 1 | 24.5 Ltr Air Tank | 3/8" Rubber | 3/8" Rubber | |
| 2 | 2 | 432 500 020 0 | Wabco control line filter | 10 | 1 | 973 500 051 0 | WABCO DRV (w/acc) | 3/8" Rubber | |
| 3 | 1 | 480 207 202 0 | Wabco EBS 3" modulator | 11 | 2 | 110591 | SEALCO Synchro valve | 1/2" Rubber | |
| 4 | 1 | 971 002 900 0 | Wabco PREV | 12 | 4 | 2016HTLD64 | TSE Spring brake chamber | 15mm Nylon | |
| 5 | 1 | 480 102 0...0 | Wabco TEBS - E (premium) | | | | | 12mm Nylon | |
| 6 | 3 | | 46 Ltr Air tank | | | | | 8mm Nylon | |
| 7 | 2 | 1624HTLD64 | TSE Spring brake chamber | | | | | 8mm Nylon | |
| 8 | 4 | 16HSCLD64 | TSE Service brake chamber | | | | | 8mm Nylon | |

Domett T&T

DOMSAXFULL/D/EB5

WABCO
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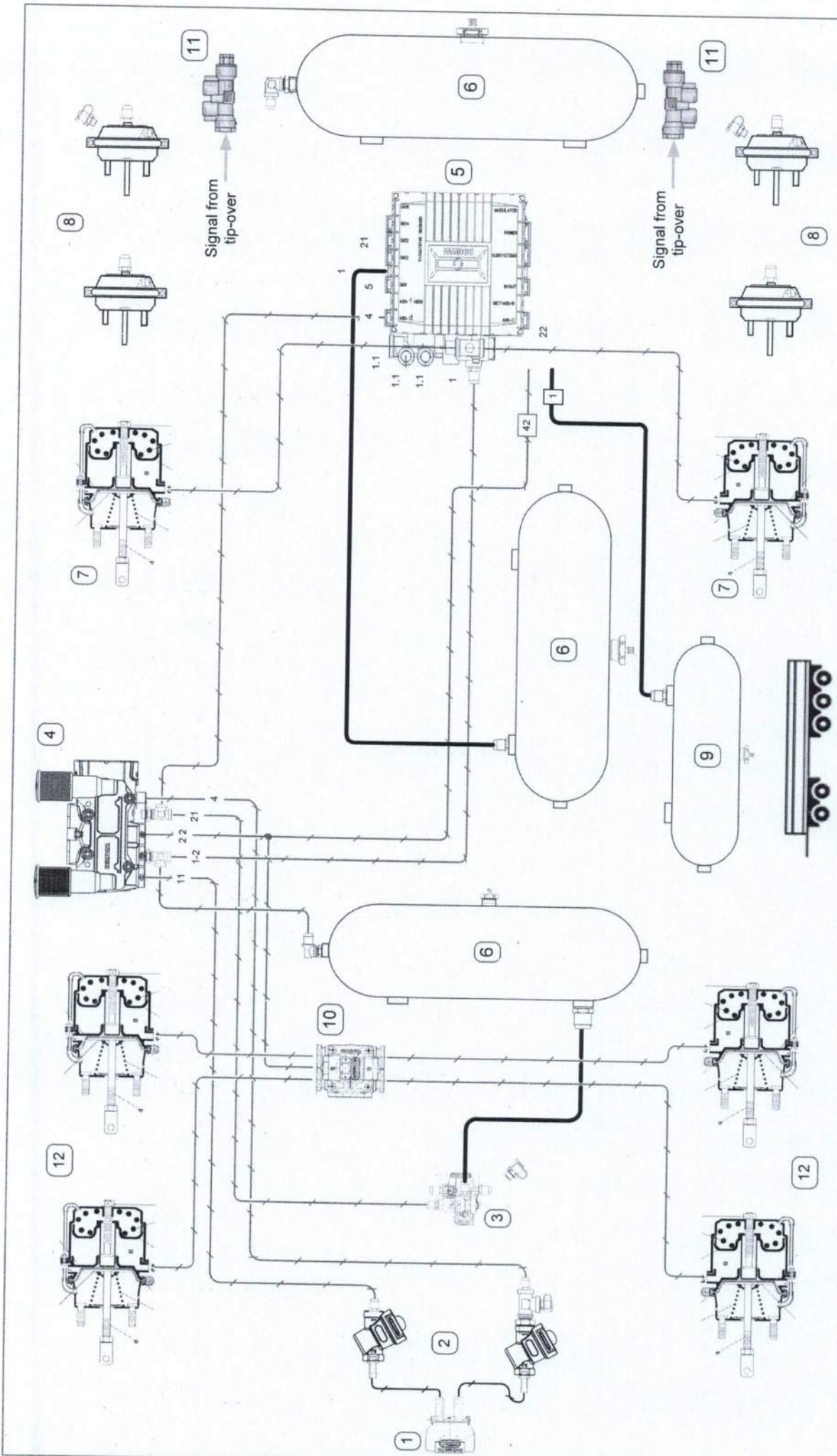
SIZE A4
 SCALE

SPEC REFERENCE E38 11

MODEL NUMBER 7A9E38116F1023421

REV 1

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 | 24.5 Ltr Air Tank | 3/8" Rubber | 3/8" Rubber | |
| 2 | 2 | 432 500 020 0 | Wabco control line filter | 10 | 1 | 973 500 051 0 | WABCO QRV (w/ac) | 3/8" Rubber | |
| 3 | 1 | 480 207 202 0 | Wabco EBS 3rd modulator * | 11 | 2 | 110591 | SEALCO Synchro valve | 1/2" Rubber | |
| 4 | 1 | 971 002 900 0 | Wabco PREV | 12 | 4 | 2016HTLD64 | TSE Spring brake chamber | 15mm Nylon | |
| 5 | 1 | 480 102 0.. 0 | Wabco TEBS - E (premium) | | | | | 12mm Nylon | |
| 6 | 3 | | 46 Ltr Air tank | | | | | 8mm Nylon | |
| 7 | 2 | 1624HTLD64 | TSE Spring brake chamber | | | | | 8mm Nylon | |
| 8 | 4 | 18HSCLD64 | TSE Service brake chamber | | | | | 8mm Nylon | |

Domett T&T

DOM5AXFULL/D/EBS

WABCO
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 SIZE A4
 SPEC REFERENCE E3811
 VN NUMBER 7A9E38116F1023421
 REV 1
 SCALE SERVICE LINES

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