NZ TRANSPORT AGENCY
WAKA KOTAHI

# 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)*: CHRIS CLARKE

ID: CJC

Vehicle registration *(optional)*:

VIN/chassis number: 7A9E15014G1023554

Make: DOMETT TRAILERS

Component being certified:

- [ ] Chassis
- [ ] Load anchorage
- [ ] Log bolsters
- [ ] Towing connection
- [X] Brakes
- [ ] SRT
- [ ] PSV stability
- [ ] PSV rollover
- [ ] Swept path
- [ ] PBS

Model *(optional)*:

Certification category: HVEK

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015/4

RSS ON: TWIN TYRES / SUPER SINGLES [215 - 235 75 R 17.5]

Code/standard/rule certified to: LTR 32015/4

Component load rating(s): 32 Tonnes GVM (35 Tonnes (Group ratings))

General drawing number(s): N/A

Supporting documents

BRAKE CODE CERTIFICATE **JH161221**

BRAKE CALCULATION # **TP51439**

Special conditions *(optional)*

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

Certification expiry date *(if applicable)*: NONE UNTIL MODIFIED

*or*

Hubodometer reading *(whichever comes first)*:

## Declaration

I the undersigned, declare that I am the heavy vehicle specialist inspector identified and I hold a current valid appointment. I certify that the above mentioned vehicle component's design, manufacture and installation, and this certification complies in all respects with the Land Transport Rule: Vehicle Standards Compliance 2002 and my appointment. To the best of my knowledge the information contained in the certificate is true and correct.

Designer's ID *(if different from inspector below)*:

Inspector's signature:

Inspector's name *(PRINT IN CAPS)*: CHRIS CLARKE

ID number: CJC

Date: 22-Dec-16

Number: 576751

CoF vehicle inspector ID:

CoF vehicle inspector signature:

Date:

**All fields are mandatory unless otherwise stated.**

# WABCO START-UP PROTOCOL

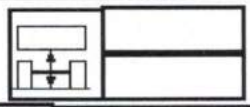
| | | | |
|---|---|---|---|
| **System** | Trailer EBS-E | **WABCO part number** | 480 102 080 0 |
| **Production date** | 2016-08-11 | **Serial number** | 437002620000B |
| **Serial number (modulator)** | 000000057840 | | |
| Fingerprint Customer EOL / Customer Development / Flash Program | W503643 / 2016-12-22 ; 00000000 / 0000-00-00 ; 00000000 / 0000-00-00 | | |

## WABCO TRAILER EBS-E

GGVS/ADR TUEH TB 2007 - 019.00
361-037-08

| | |
|---|---|
| HERSTELLER MANUFACTURER CONSTRUCTEUR | DOMETT TRAILERS |
| TYP TYPE TYPE | 5AFT PLATFORM |
| FAHRZEUG IDENTNR. CHASSIS NUMBER NUMERO DE CHASSIS | 7A9E15014G1023554 |
| BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO. | TP51439A |
| POLRADZAHNEZAHL c-d \| e-f POLE WHEEL TEETH c-d \| e-f DENTS ROUE DENTEE c-d \| e-f | 80 / 80 |
| ABS-System ABS system Système ABS | 4S/3M |
| RSS Einfachbereifung Single Tire Monte simple | |
| Lenkachse Steering axle Essieu vireur | |
| RSS RSS Zwillingsbereifung Twin Tire Monte jumelée | X |
| Kippkritisches Fahrzeug Critical Trailer Véhicule critique | |
| Subsystems | SB / I/O / 24N |

| GIO | Pin1 | Pin3 | Pin4 |
|---|---|---|---|
| 1 | ALS2 | ALS2 | LS2 |
| 2 | eTASC2 | --- | eTASC2 |
| 3 | eTASC | --- | eTASC |
| 4 | --- | --- | LS1 |
| 5 | DIAG | DIAG | DIAG |
| 6 | --- | --- | --- |
| 7 | --- | --- | --- |



| | pm (bar) | | 6.5 | pm (bar) | | 0.7 | 2.0 | --- | 6.5 | | TYP TYPE | (mm) | (mm) | (bar) 1.0 TR (daN) | Pz |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACHSE AXLE ESSIEU | | | | | | | | | pz | | | | | | |
| 1 | 1400 | 0.5 | 2.0 | 8000 | 5.0 | 0.4 | 1.5 | --- | 6.2 | - | 18 | 65 | 69 | 505 | 4058 |
| 2 | 1400 | 0.5 | 2.0 | 8000 | 5.0 | 0.4 | 1.5 | --- | 6.2 | - | 18 | 65 | 69 | 505 | 4058 |
| 3 | 1300 | 0.5 | 1.8 | 6400 | 4.0 | 0.3 | 1.6 | --- | 5.2 | - | 14 / 16 | 64 | 69 | 495 | 3051 |
| 4 | 1300 | 0.5 | 1.8 | 6400 | 4.0 | 0.3 | 1.6 | --- | 5.2 | - | 14 / 16 | 64 | 69 | 495 | 3051 |
| 5 | 1300 | 0.5 | 1.8 | 6400 | 4.0 | 0.3 | 1.6 | --- | 5.2 | - | 14 / 16 | 64 | 69 | 495 | 3051 |

### 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** | 7A9E15014G1023554 |
| **Vehicle type** | 5AFT PLATFORM | **Odometer reading** | 0.0 km |
| **next Service** | 0 km | **Trip reading** | 0.0 km |
| **Tester** | Chris Clarke | | |
| **Date** | 2016-12-22 1:46:07 p.m. | **Signature** | |

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

distribution: DOMETT TRAILERS
7A9E15014G1023554
SODC: JH161221
LT400: CJC 576751

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 20.04.2016

vehicle manufacturer: DOMETT TRAILERS
trailer model : 5AFT PLATFORM
trailer type : 5-axle-full-trailer
remarks : air / hydraulic / VA suspension
WABCO TRAILER - EBS
TRISTOP 3+4+5: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED - SEE PAGE 7 FOR PERFORMANCE DATA]
215/75 R 17,5 - 235/75 R 17,5

axle 1 + 2 + 3 + 4 + 5 : IMT, WABCO PAN-17, 361-037-08 ECE,

| | | unladen | laden |
|---|---|---|---|
| total mass | P in kg | 6700 | 35200 |
| axle 1 | P1 in kg | 1400 | 8000 |
| axle 2 | P2 in kg | 1400 | 8000 |
| axle 3 | P3 in kg | 1300 | 6400 |
| axle 4 | P4 in kg | 1300 | 6400 |
| axle 5 | P5 in kg | 1300 | 6400 |
| wheel base | E in mm | 7850 - 7850 | |
| centre of gravity height | h in mm | 1000 | 2024 |

| | | axle 1 | axle 2 | axle 3 | axle 4 | axle 5 |
|---|---|---|---|---|---|---|
| | | manually | manually | manually | manually | manually |
| no. of combined axles | | 1 | 1 | 1 | 1 | 1 |
| no. of brake chambers per axle line | KDZ | 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 | | 18. | 18. | T.14/24 | T.14/24 | T.14/24 |
| lever length | lBh in mm | 69 | 69 | 69 | 69 | 69 |
| brake factor | [-] | 19.98 | 19.98 | 19.98 | 19.98 | 19.98 |
| dyn. rolling radius | rdyn min in mm | 373 | 373 | 373 | 373 | 373 |
| dyn. rolling radius | rdyn max in mm | 387 | 387 | 387 | 387 | 387 |
| threshold torque | Co Nm | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

calculation:

| | | | | | | |
|---|---|---|---|---|---|---|
| chamber pressure(rdyn min)pH at z=22,5%bar | | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 |
| chamber pressure(rdyn max)pH at z=22,5%bar | | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 |
| chamber press.(servo)pcha at pm6,5bar | bar | 6.2 | 6.2 | 5.2 | 5.2 | 5.2 |
| piston force ThA at pm6,5bar | N | 6622 | 6622 | 4986 | 4986 | 4986 |
| brake force(rdyn min)T lad. at pm6,5bar | N | 49652 | 49652 | 37335 | 37335 | 37335 |
| brake force(rdyn max)T lad. at pm6,5bar | N | 47885 | 47885 | 36007 | 36007 | 36007 |
| brake force within 1 % rolling friction proportion | % | 21.2 | 21.2 | 19.2 | 19.2 | 19.2 |

braking rate z laden 0.612 for rdyn min
z = sum (TR)/PRmax 0.590 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 18HSCLD64

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 18HSCLD64

axle 3:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

brake cylinder: Meritor 1424HTLD64

axle 4:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

brake cylinder: Meritor 1424HTLD64

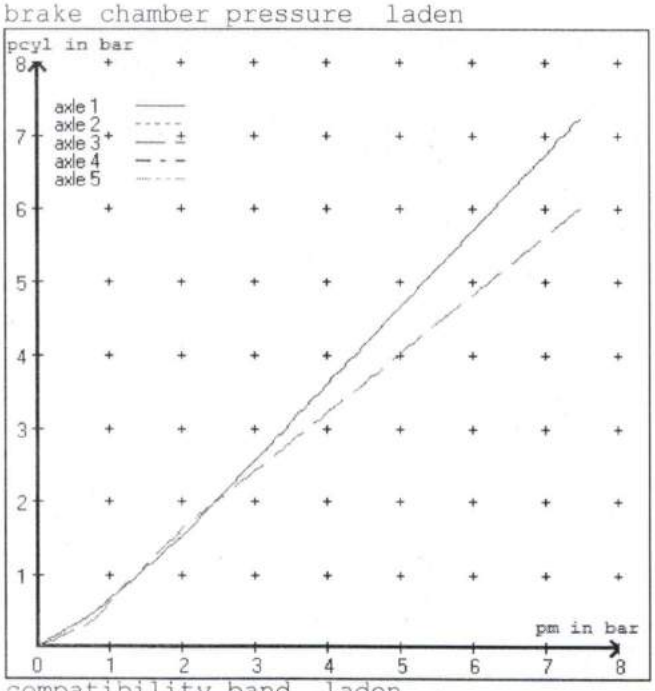
axle 5:
valve 1: 971 002 ... 0 WABCO
EBS emergency valve

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

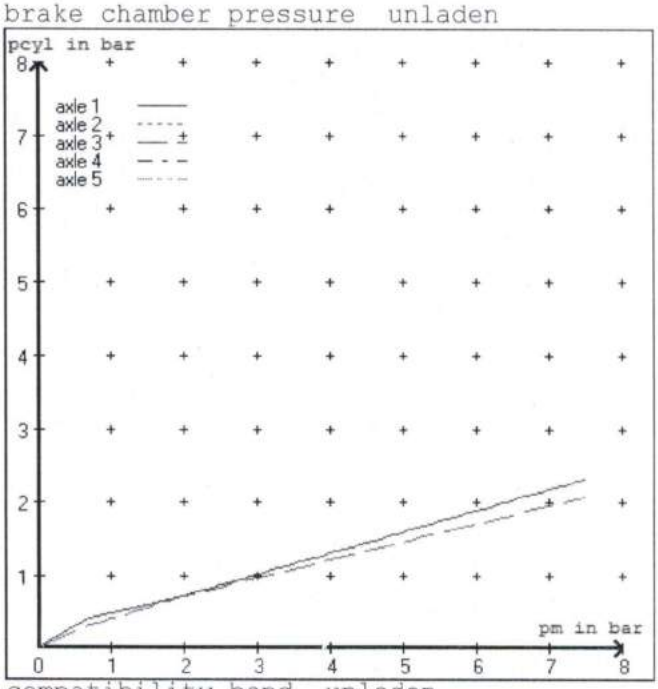
brake cylinder: Meritor 1424HTLD64

| | | | | | | |
|---|---|---|---|---|---|---|
| test type III (zIII = 0.30) | for rdyn min : | axle1 | axle2 | axle3 | axle4 | axle5 |
| at pm 3.5 bar => | pcha in bar : | 3.0 | 3.0 | 2.8 | 2.8 | 2.8 |
| 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 | 0.7 | 0.7 | 0.7 |

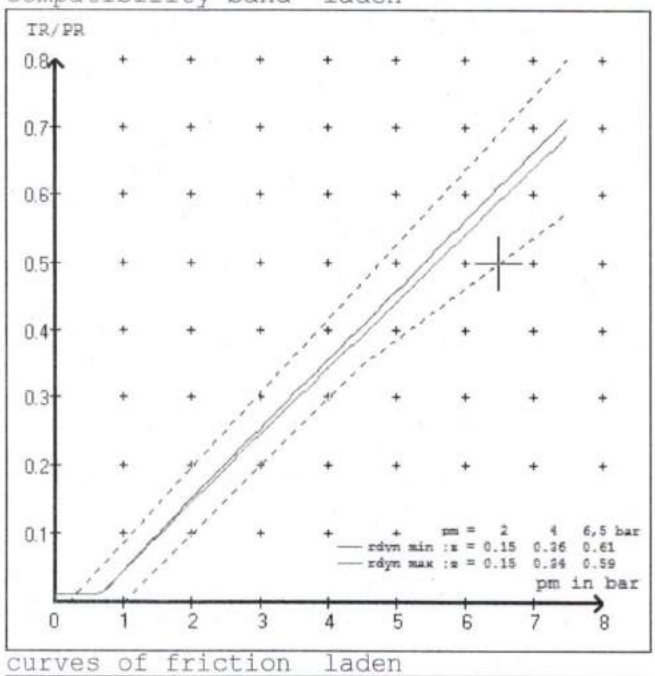
brake chamber pressure laden



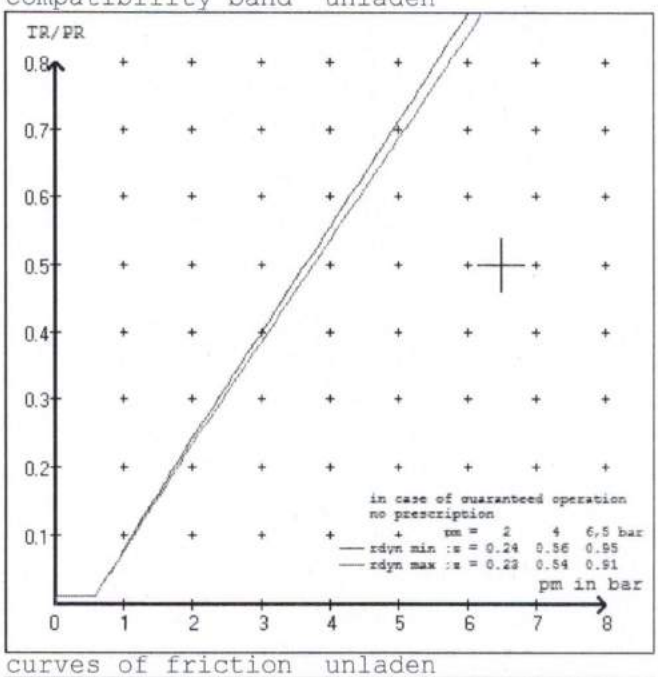

brake chamber pressure unladen



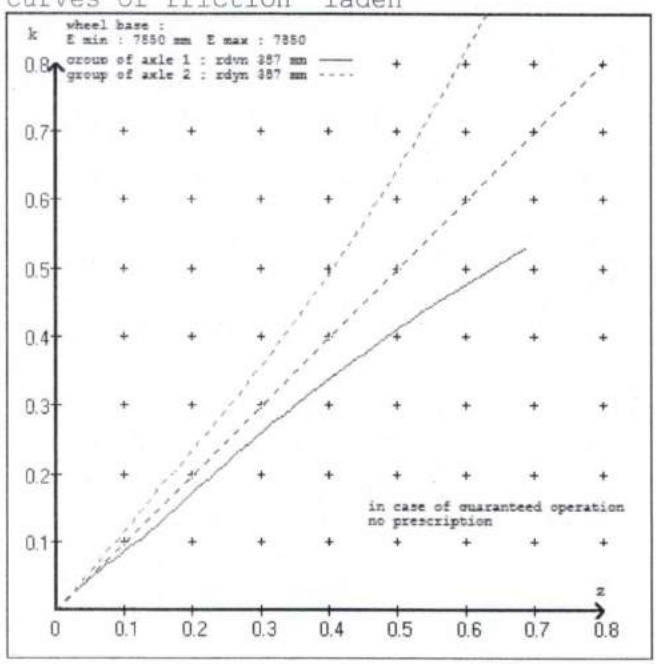

compatibility band laden



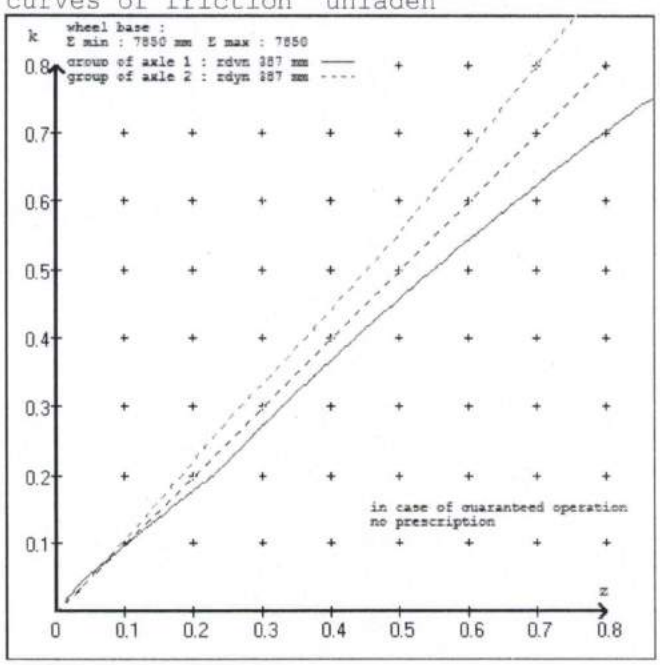

compatibility band unladen




curves of friction laden




curves of friction unladen



vehicle manufacturer: DOMETT TRAILERS
trailer model : 5AFT PLATFORM
trailer type : 5-axle-full-trailer

brake chamber and lever length :

| | | | | |
|---|---|---|---|---|
| axle 1 : | 2 x type/diameter | 18. | (Meritor) | lever length 69 mm |
| axle 2 : | 2 x type/diameter | 18. | (Meritor) | lever length 69 mm |
| axle 3 : | 2 x type/diameter | T.14/24 | (Meritor) | lever length 69 mm |
| axle 4 : | 2 x type/diameter | T.14/24 | (Meritor) | lever length 69 mm |
| axle 5 : | 2 x type/diameter | T.14/24 | (Meritor) | lever length 69 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 PLATFORM
trailer type : 5-axle-full-trailer
brake calculation no. : TP 51439A

tire circumference main axle : 2425 for rdyn max
tire circumference auxiliary axle : 2425 for rdyn max

assignment pm / deceleration z: pm 0.7 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 | | 0.7 | 2.0 | 6.5 |
|---|---|---|---|---|---|---|---|---|
| axle | axle load unladen | bellow pr. unladen | brake pr. unladen | axle load laden | bellow pr. laden | brake pr. laden | | |
| 1 | 1400 | to be entered by the vehicle manufact. | 2.0 | 8000 | to be entered by the vehicle manufact. | 0.4 | 1.5 | 6.2 |
| 2 | 1400 | | 2.0 | 8000 | | 0.4 | 1.5 | 6.2 |
| 3 | 1300 | | 1.8 | 6400 | | 0.3 | 1.6 | 5.2 |
| 4 | 1300 | | 1.8 | 6400 | | 0.3 | 1.6 | 5.2 |
| 5 | 1300 | | 1.8 | 6400 | | 0.3 | 1.6 | 5.2 |

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 |
| 1400 | 2.0 | 1400 | 2.0 | 1300 | 1.8 | 1300 | 1.8 | 1300 | 1.8 |
| 1900 | 2.3 | 1900 | 2.3 | 1800 | 2.1 | 1800 | 2.1 | 1800 | 2.1 |
| 2400 | 2.6 | 2400 | 2.6 | 2300 | 2.5 | 2300 | 2.5 | 2300 | 2.5 |
| 2900 | 3.0 | 2900 | 3.0 | 2800 | 2.8 | 2800 | 2.8 | 2800 | 2.8 |
| 3400 | 3.3 | 3400 | 3.3 | 3300 | 3.1 | 3300 | 3.1 | 3300 | 3.1 |
| 3900 | 3.6 | 3900 | 3.6 | 3800 | 3.5 | 3800 | 3.5 | 3800 | 3.5 |
| 4400 | 3.9 | 4400 | 3.9 | 4300 | 3.8 | 4300 | 3.8 | 4300 | 3.8 |
| 4900 | 4.2 | 4900 | 4.2 | 4800 | 4.1 | 4800 | 4.1 | 4800 | 4.1 |
| 8000 | 6.2 | 8000 | 6.2 | 6400 | 5.2 | 6400 | 5.2 | 6400 | 5.2 |

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

| | | | | |
|---|---|---|---|---|
| axle 1 : | reference axle: IMT | 175-195 | brake lining: | Jurid 539 |
| | test report : | 361-037-08 ECE | date : | 17122008 18.01.2013 |
| axle 2 : | reference axle: IMT | 175-195 | brake lining: | Jurid 539 |
| | test report : | 361-037-08 ECE | date : | 17122008 18.01.2013 |
| axle 3 : | reference axle: IMT | 175-195 | brake lining: | Jurid 539 |
| | test report : | 361-037-08 ECE | date : | 17122008 18.01.2013 |
| axle 4 : | reference axle: IMT | 175-195 | brake lining: | Jurid 539 |
| | test report : | 361-037-08 ECE | date : | 17122008 18.01.2013 |
| axle 5 : | reference axle: IMT | 175-195 | brake lining: | Jurid 539 |
| | test report : | 361-037-08 ECE | date : | 17122008 18.01.2013 |

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

| | | |
|---|---|---|
| axle 1 | (rdyn 373 mm) | T = 29.3 % Fe |
| axle 2 | (rdyn 373 mm) | T = 29.3 % Fe |
| axle 3 | (rdyn 373 mm) | T = 24.4 % Fe |
| axle 4 | (rdyn 373 mm) | T = 24.4 % Fe |
| axle 5 | (rdyn 373 mm) | T = 24.4 % Fe |

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

| | | |
|---|---|---|
| axle 1 | (sp = 58 mm) | s = 26 mm |
| axle 2 | (sp = 58 mm) | s = 26 mm |
| axle 3 | (sp = 56 mm) | s = 26 mm |
| axle 4 | (sp = 56 mm) | s = 26 mm |
| axle 5 | (sp = 56 mm) | s = 26 mm |

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

| | |
|---|---|
| axle1 | ThA = 6622 N |
| axle2 | ThA = 6622 N |
| axle3 | ThA = 4986 N |
| axle4 | ThA = 4986 N |
| axle5 | ThA = 4986 N |

calc. residual (hot) braking force in N
(item 4.3.1.4 of appendix 2 to annex 11)

| | | |
|---|---|---|
| axle 1 | (rdyn 373 mm) | T = 42605 N |
| axle 2 | (rdyn 373 mm) | T = 42605 N |
| axle 3 | (rdyn 373 mm) | T = 32006 N |
| axle 4 | (rdyn 373 mm) | T = 32006 N |
| axle 5 | (rdyn 373 mm) | T = 32006 N |

| | basic test of subject trailer (E) | type III (calculated) residual (hot)braking |
|---|---|---|
| braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11) | 0.61 | 0.52 |
| required braking rate (items 1.5.3 and 1.7.2 to annex 11) | | >= 0,4 and >= 0,6*E (0.37) |

| | | |
|---|---|---|
| axle 1 | (rdyn 387 mm) | T = 41093 N |
| axle 2 | (rdyn 387 mm) | T = 41093 N |
| axle 3 | (rdyn 387 mm) | T = 30871 N |
| axle 4 | (rdyn 387 mm) | T = 30871 N |
| axle 5 | (rdyn 387 mm) | T = 30871 N |

| | basic test of subject trailer (E) | type III (calculated) residual (hot)braking |
|---|---|---|
| braking rate of the vehicle (item 4.3.2 to appendix 2 to annex 11) | 0.59 | 0.51 |
| required braking rate (items 1.5.3 and 1.7.2 to annex 11) | | >= 0,4 and >= 0,6*E (0.35) |

spring parking brake

| | | axle 3 | axle 4 | axle 5 |
|---|---|---|---|---|
| no of TRISTOP-actuators per axle line | KDZ | 2 | 2 | 2 |
| TRISTOP-actuator type | | T.14/16 | T.14/16 | T.14/16 |
| lever length | lBh in mm | 69 | 69 | 69 |
| stat. tyre radius | rstat max in mm | 376 | 376 | 376 |
| at a stroke of | s in mm | 30 | 30 | 30 |
| min. force of spring brake | TFZ in N | 6200 | 6200 | 6200 |
| sp.brake chamber no Meritor..... | | 4 | 4 | 4 |
| release pressure | pLs in bar | 4.5 | 4.5 | 4.5 |

calculation:

| | | | | |
|---|---|---|---|---|
| ratio until road<br>iFb = lBh*Eta*C*rBt/(rBn*rstat) | | 3.6878 | 3.6878 | 3.6878 |
| for rstat | in mm | 376 | 376 | 376 |
| brake force of spring br. Tf<br>Tf = (TFZ*KDZ-2*Co/lBh)*iFb | in N | 45070 | 45070 | 45070 |
| braking rate<br>zf = sum (Tf)/P + 0,01 | zf laden | 0.402 | | |

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 = 5074 mm for E = 7850 mm
==========
min Ef = 5074 mm for E = 7850 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 | = | 2024 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) |

| | | | |
|---|---|---|---|
| | | | axle 1 + 2 + 3 + 4 + 5 |
| axle manufacturer | | | IMT |
| type of brake | | | WABCO PAN-17 |
| type of axle | | | 175-195 |
| | | | 361-037-08 ECE |
| test report of characteristic value | | | |
| adm. stat. axle load | Pstat | in kg | 7003 |
| tested axle load | Pe | in kg | 8000 |
| max. adm. tyre radius | Rezul | in mm | 999 |
| adm. cam. torque (6,5 bar) | Czul | in Nm | 618 |
| lining area per brake | AB | in cm² | 240 |
| no. of brake cylinder | | - | 2 |
| brakefactor (SB) Bf | | - | 19.98 |
| brakefactor (PB) Bf | | - | 19.98 |
| threshold torque (Co,dec) | Mo | in Nm | 3 |
| date | | | 17122008 18.01.2013 |
| brake lining | | | Jurid 539 |
| cam torque | Ce | in Nm | 381 |
| brake force | TeIII | in daN | 3471 |
| stroke | seIII | in mm | 26 |
| tested tyre radius | Re | in mm | 382 |
| tested lever length | le | in mm | 69 |
| threshold torque (Co,e) | | in Nm | 5 |

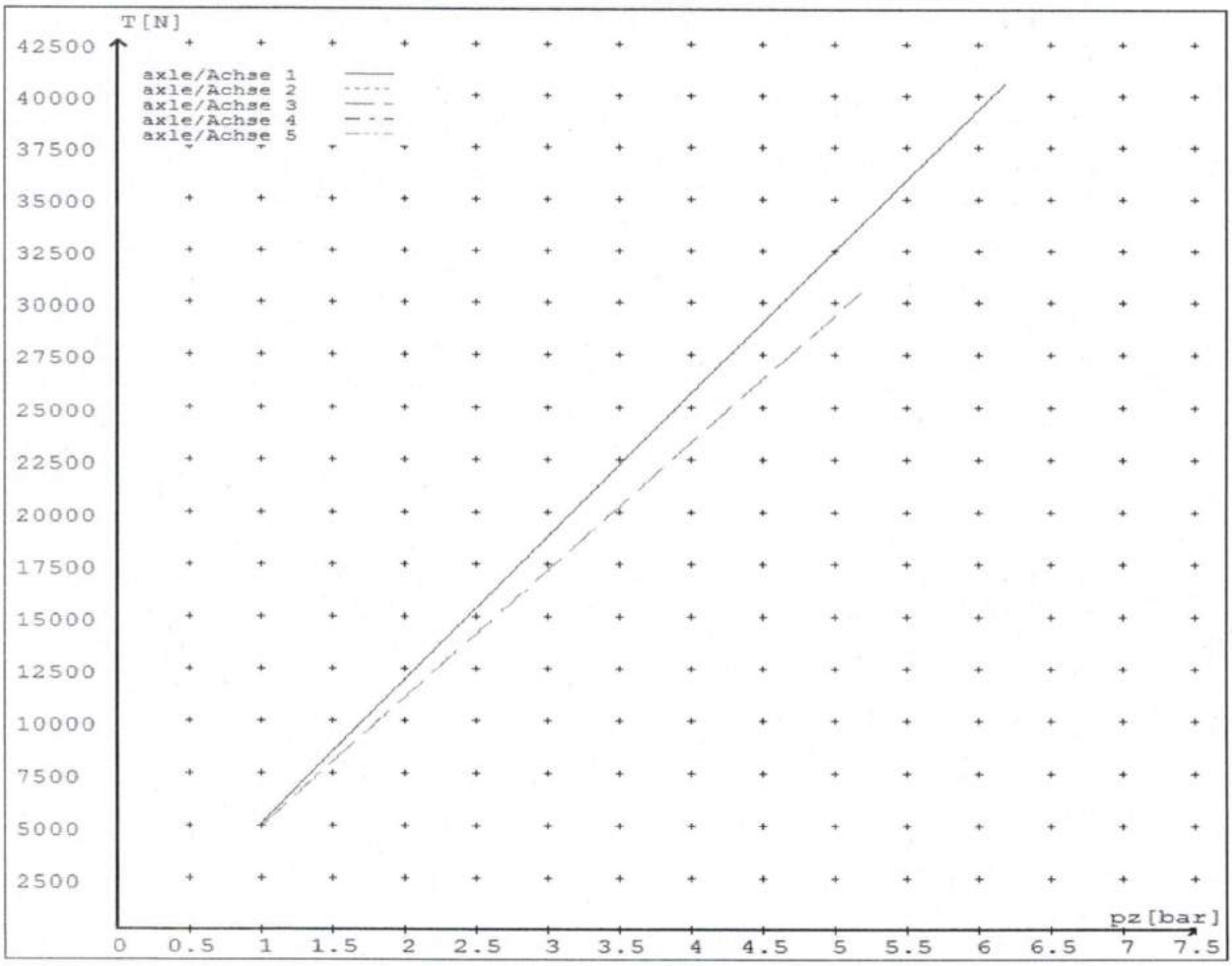
**reference values**

reference values for z = 50% for max rdyn: 387 mm

| | pz [bar] | T [N] | T [N] |
|---|---|---|---|
| axle 1 | 1.0<br>6.2 | 5054<br>40580 | |
| axle 2 | 1.0<br>6.2 | 5054<br>40580 | |
| axle 3 | 1.0<br>5.2 | | 4957<br>30514 |
| axle 4 | 1.0<br>5.2 | | 4957<br>30514 |
| axle 5 | 1.0<br>5.2 | | 4957<br>30514 |

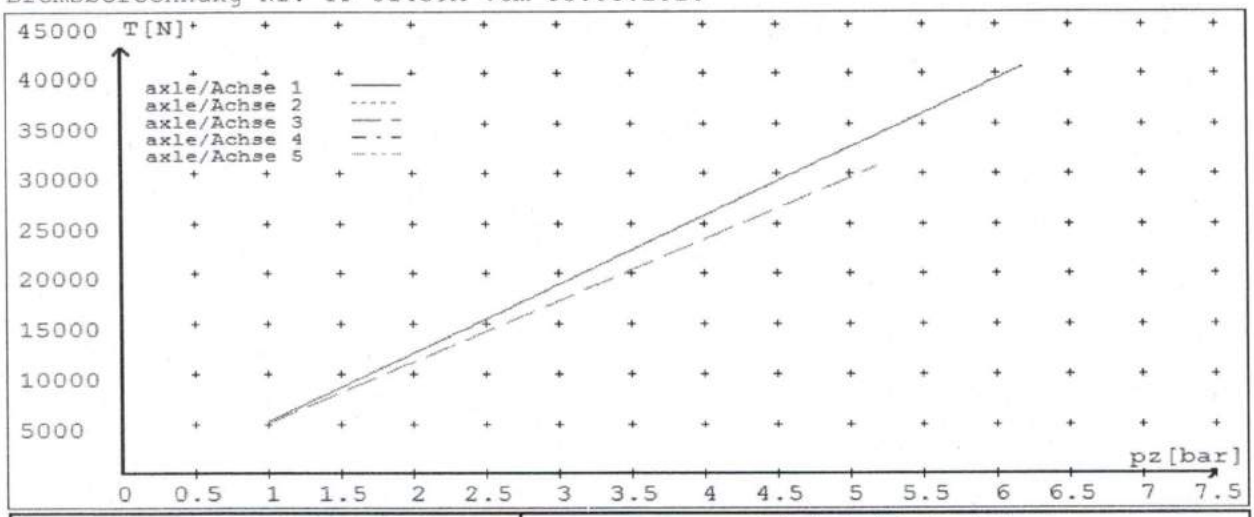
VIN - no.:

| | Axle(s) / Achse(n) | | | | |
|---|---|---|---|---|---|
| brake cylinder type (service / parking)<br>Bremszylinder Typ (Betrieb / Fest) | 18./ | 18./ | T.14/24 | T.14/24 | T.14/24 |
| Maximum stroke smax = ...mm<br>maximaler Hub smax = ....mm | 64 | 64 | 64 | 64 | 64 |
| Lever length = ....mm<br>Hebellänge = ....mm | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 |



Print on WABCO no. 899 200 922 4 (only possible with laser printers!)

**reference values for z = 0.5** **for max rdyn: 387 mm**
Angabe der Referenzwerte für z = 0.5 für max rdyn: 387 mm
**brake calculation no: TP 51439A date 03.05.2016**
Bremsberechnung Nr: TP 51439A vom 03.05.2016




| | Axle(s) / Achse(n) | | | | |
|---|---|---|---|---|---|
| brake cylinder type (service / parking)<br>Bremszylinder Typ (Betrieb / Fest) | 18./ | 18./ | T.14/24 | T.14/24 | T.14/24 |
| Maximum stroke smax = ...mm<br>maximaler Hub smax = ....mm | 64 | 64 | 64 | 64 | 64 |
| Lever length = ....mm<br>Hebellänge = ....mm | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 |

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# 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 32015/4.***

***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 32015/4. 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)**

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# *NOTICE TO VEHICLE OPERATOR*

This trailer is equipped with an **E**lectronic **B**rake **S**ystem.

To comply with the New Zealand Heavy Vehicle Brake Rule 32015/4, 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)

GOUGH Transpecs

# *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 32015/4.

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)

GOUGH Transpecs

# HEAVY VEHICLE BRAKE RULE
# 32015/4 WORKSHEET
# (PROCEDURE DOCUMENTATION SHEET-PDS)
# &
# CONFIRMATION OF COMPLIANCE

| | | | |
|---|---|---|---|
| **CERTIFICATE NO.** | JH161221 | | |
| **CUSOMER NAME** | DOMETT TRUCK & TRAILER | | |
| **CUSTOMER ORDER NO.** | 4684 | **DATE RECEIVED** | 22-Dec-16 |
| **VEHICLE TYPE** | PLATFORM | | |
| **VIN/ CHASSIS NO.** | 7A9E15014G1023554 | | |

## BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

| **BRAKE VALVES** | **MAKE** | **TYPE** |
|---|---|---|
| **PRIMARY RELAY** | WABCO | 480 102 080 0 |
| **SECONDARY RELAY** | WABCO | 480 207 202 0 |
| **YARD RELEASE VALVE** | WABCO | 971 002 900 0 |
| **PARK BRAKE VALVE** | WABCO | 971 002 900 0 |

| **SUSP. VALVES [WABCO]** | **FRONT** | **REAR** |
|---|---|---|
| **CONTROL** | 463 090 500 0 | 463 090 500 0 |
| **DISTANCE SENSOR** | 441 050 100 0 | 441 050 100 0 |

**OTHER VALVES:**

| | | | | | |
|---|---|---|---|---|---|
| **MAKE:** | WABCO | **TYPE:** | 461 513 002 0 | **SETTING:** | 5.5 Bar (PEM) |
| **MAKE:** | WABCO | **TYPE:** | 446 192 110 0 | **SETTING:** | SMARTBOARD |
| **MAKE:** | | **TYPE:** | | **SETTING:** | |
| **MAKE:** | | **TYPE:** | | **SETTING:** | |

| BRAKE CHAMBERS: | AXLE 1 & 2 | AXLE 3 & 4 | AXLE 5 |
|---|---|---|---|
| MAKE | TSE | TSE | TSE |
| SIZE | 18HSCLD65 | 1416HTLD64 | 1416HTLD64 |
| MAX STROKE (mm) | 65 | 64 | 64 |
| SLACK LENGTH (mm) | 69.4 | 69.4 | 69.4 |
| DRUM TYPE: | N/A | N/A | N/A |
| | | OR | |
| BRAKE CALIPER: | WABCO PAN17 | WABCO PAN17 | WABCO PAN17 |

**FRICTION MATERIAL:** ☑ OEM ☐ AFTERMARKET

| LINING BRAND | AXLE 1 & 2 | AXLE 3 & 4 | AXLE 5 |
|---|---|---|---|
| | JURID 539 | JURID 539 | JURID 539 |

**OTHERS:**

**TYRES:**

| FRONT | REAR |
|---|---|
| 215/235 75 R 17.5 | 215/235 75 R 17.5 |

**BRAKE CALCULATION #:** TP51439

## COMMENTS:

EBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #

**SALES ORDER #:** SO607149 **PROCESS TIME:** 1 HOUR

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

## NOTES:

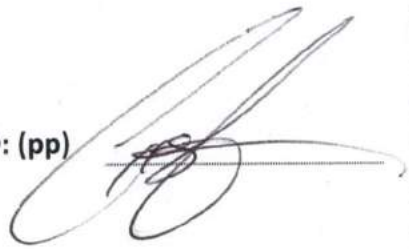
**CHAMBERS & PARK BRAKE PERFORMANCE:**

BRAKE CALCULATION TP51439 USES THE TSE1424HTLD TO DETERMINE THE SERVICE BRAKE PERFORMANCE & THE TSE1616HTLD64 TO MEASURE THE PARK BRAKE PERFORMANCE OF AXLES 3, 4 & 5. THE ACTUAL CHAMBER USED (TSE1416HTLD64) IS NOT AVAILABLE IN THE WABCO BRAKE CALCULATOR.

## CONFORMATION OF COMPLIANCE

*I CONFIRM THAT THE VEHICLE IDENTIFIED IN PAGES 1 AND 2 OF THIS CONFORMATION OF COMPLIANCE COMPLIES WITH ALL RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/4, SCHEDULE 5.*

**DATE:** **22-Dec-16** **SIGNED: (pp)**



**NAME & ID:** J HIRST (JEH)

**PHONE (BUS):** 09 980 7300 **FAX (BUS)** 09 980 7306

**POSTAL ADDRESS:**

TRANSPORT SPECIALTIES LTD
PO BOX 98-971,
MANUKAU CITY,
MANUKAU 2241

**POSITION:** BRAKE CERTIFIER HVEK

*I CONFIRM THE BRAKE SYSTEM OF THE VEHICLE IDENTIFIED IN PAGE 1 OF THIS STATEMENT OF COMPLIANCE AS MODIFIED BY MYSELF, CONTINUES TO COMPLY WITH ALL THE RELIVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY BRAKE RULE 32015/4 SCHEDULE 5.*

**DATE:** **SIGNED:**

**NAME:**

**CERTIFIERS ID:** **POSITION:**

**PHONE (BUS):** **FAX (BUS):**

**COMMENTS:**