NZ TRANSPORT AGENCY
WAKA KOTAHI

Heavy vehicle specialist certificate

Must be presented to a CoF (heavy) inspecting organisation if not entered into LANDATA

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

CHRIS CLARKE

ID: **CJC**

Vehicle registration *(optional)*

VIN/chassis number

7 A 9 E 2 5 0 1 0 K 1 0 2 3 8 9 5

Make

DOMETT

Model *(optional)*

E2501 H

Certification category

HVEK

Component being certified:

☐ Chassis		☐ Load anchorage
☐ Log bolsters	☐ Towing connection	☒ Brakes
☐ SRT	☐ PSV stability	☐ PSV rollover
☐ Swept path	☐ PBS	

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015/5

NEW ZEALAND HEAVY VEHICLE BRAKE SPECIFICATION.

5AFT LIVESTOCK   RSS ON TYRE: 215 75 R17.5

Code/standard/rule certified to

LTR 32015/5

General drawing number(s)

N/A

Component load rating(s)

32 Tonnes GVM

35 Tonnes (Group ratings)

Supporting documents

BRAKE RULE CERTIFICATE   JH191014

BRAKE CALCULATION #   TP51813

Special conditions *(optional)*

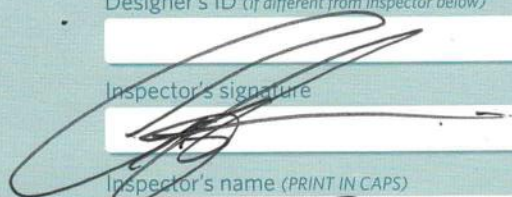WARNING LAMP MUST ILLUMINATE WHEN IGNITION IS SWITCHED ON & THEN

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)*

Inspector's signature

Inspector's name *(PRINT IN CAPS)*

CHRIS CLARKE

ID number: CJC

Date **18-Oct-19**

Number

723612

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	480 102 084 0
Production date	2016-09-07	Serial number	437003053300D
Serial number (modulator)	000000001374		
Fingerprint Customer EOL / Customer Development / Flash Program	W503643 / 2019-10-18 ; 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					GIO	Pin1	Pin3	Pin4
TYP TYPE TYPE	5AFT STOCK					1	ALS2	ALS2	LS2
VEHICLE IDENT. NUMBER CHASSIS NUMBER NUMERO DE CHASSIS	7A9E25010K1023895					2	eTASC2	---	eTASC2
BREMSBERECHNUNGS-NR. BRAKE CALCULATION NO. CALCUL DE FREINAGE NO.	TP51813A					3	eTASC	---	eTASC
POLRADZAHNEZAHL c-d | e-f POLE WHEEL TEETH c-d | e-f DENTS ROUE DENTÉE c-d | e-f	80	80	ABS-System ABS-System Système ABS	4S/3M		4	---	---	LS1
RSS RSS RSS	Einfachbereifung Single Tire Monte simple		Lenkachse Steering axle Essieu vireur			5	DIAG	DIAG	DIAG
	Zwillingsbereifung Twin Tire Monte jumelée	X	Kippkritisches Fahrzeug Critical Trailer Véhicule critique			6	---	---	---
Subsystems	SB		I/O	24N		7	---	---	---

		pm (bar)	6.5	pm (bar)	0.8	2.0	---	6.5				(bar)		
												1.0	Pz	
ACHSE AXLE ESSIEU								pz	TYP TYPE	(mm)	(mm)	TR (daN)		
1	2100	1.0	2.1	8000	5.1	0.4	1.3	---	6.1	-	20	65	69	518	4360
2	2100	1.0	2.1	8000	5.1	0.4	1.3	---	6.1	-	20	65	69	518	4360
3	1900	0.9	1.8	6350	3.9	0.3	1.4	---	4.8	-	14 / 16	64	69	498	2826
4	1900	0.9	1.8	6350	3.9	0.3	1.4	---	4.8	-	14 / 16	64	69	498	2826
5	1900	0.9	1.8	6350	3.9	0.3	1.4	---	4.8	-	14	64	69	498	2826

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 TRAILERS	Vehicle ident. no	7A9E25010K1023895
Vehicle type	5AFT STOCK	Odometer reading	0.0 km
next Service	0 km	Trip reading	0.0 km
Tester	Chris Clarke		
Date	2019-10-18 3:22:41 PM	Signature	

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

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 03.11.2017

distribution: DOMETT TRAILERS
               7A9E25010K1023895
               SODC: JH191014
               LT400: CJC 723612

vehicle manufacturer: DOMETT TRAILERS

trailer model   :   5AFT STOCK

trailer type   :   5-axle-full-trailer

remarks   :   air / hydraulic / VA suspension
                         EC w.o.annexVII
                         WABCO TRAILER - EBS E
                         TRISTOP 3+4: T.14/24 [TSE1416HTLD64 ACTUALLY FITTED -
                         SEE PAGE 6 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		9900	35050
axle 1	P1 in kg		2100	8000
axle 2	P2 in kg		2100	8000
axle 3	P3 in kg		1900	6350
axle 4	P4 in kg		1900	6350
axle 5	P5 in kg		1900	6350
wheel base	E in mm		7400 - 7900	
centre of gravity height	h in mm		1050	2280

			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 122.1
brake chamber manufacturer			Meritor	Meritor	Meritor	Meritor	Meritor
chamber size			20.	20.	T.14/24	T.14/24	14.
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:

			axle 1	axle 2	axle 3	axle 4	axle 5
chamber pressure(rdyn min)pH at z=22,5%bar			2.2	2.2	2.1	2.1	2.1
chamber pressure(rdyn max)pH at z=22,5%bar			2.3	2.3	2.1	2.1	2.1
chamber press.(servo)pcha at pm6,5bar bar			6.1	6.1	4.8	4.8	4.8
piston force ThA at pm6,5bar N			7071	7071	4586	4586	4586
brake force(rdyn min)T lad. at pm6,5bar N			52992	52992	34350	34350	34350
brake force(rdyn max)T lad. at pm6,5bar N			51104	51104	33130	33130	33130
brake force within 1 % rolling friction							
proportion	%		22.3	22.3	18.5	18.5	18.5

braking rate   z laden   0.608   for rdyn min
z = sum (TR)/PRmax   0.586   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.. 0   WABCO
        EBS trailer modulator

  brake cylinder: Meritor   1424HTLD64

axle 4:
   valve 1: 480 102 0.. 0   WABCO
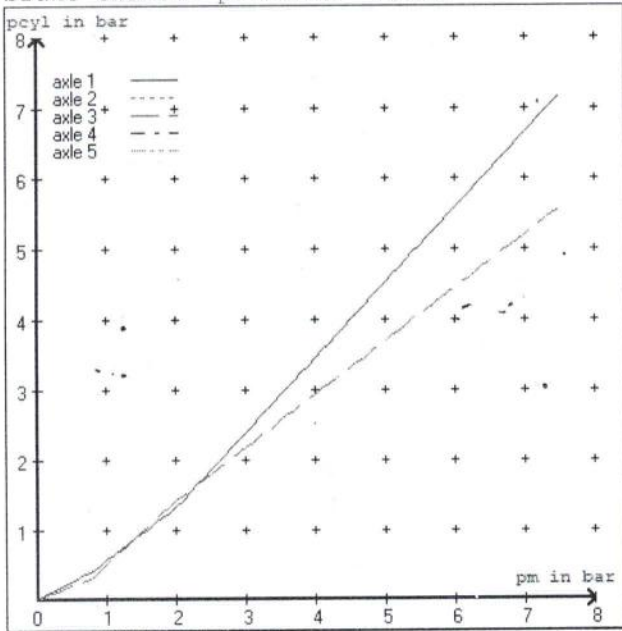   EBS trailer modulator

   brake cylinder: Meritor   1424HTLD64

axle 5:
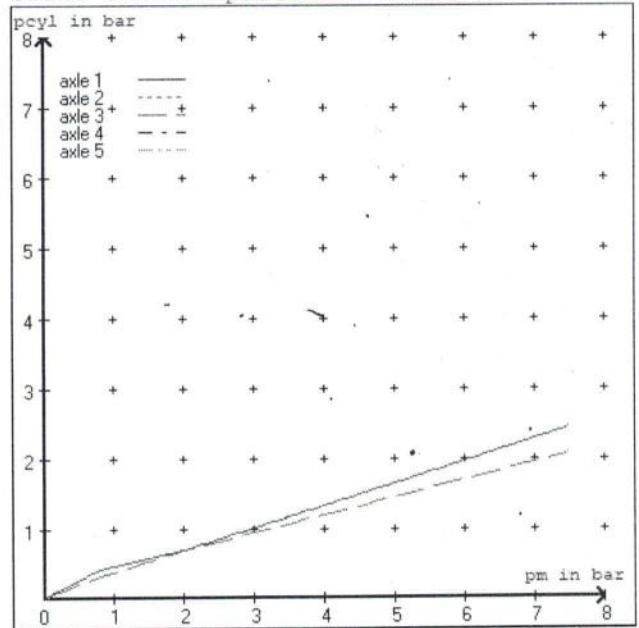   valve 1: 480 102 0.. 0   WABCO
            EBS trailer modulator

   brake cylinder: Meritor   14HSCLD64

test type III   (zIII = 0.30)   for rdyn min : axle1 axle2 axle3 axle4 axle5
at pm 3.6 bar =>   pcha in bar :   3.0   3.0   2:6   2.6   2.6
test type III   (zIII = 0.06)   for rdyn min : axle1 axle2 axle3 axle4 axle5
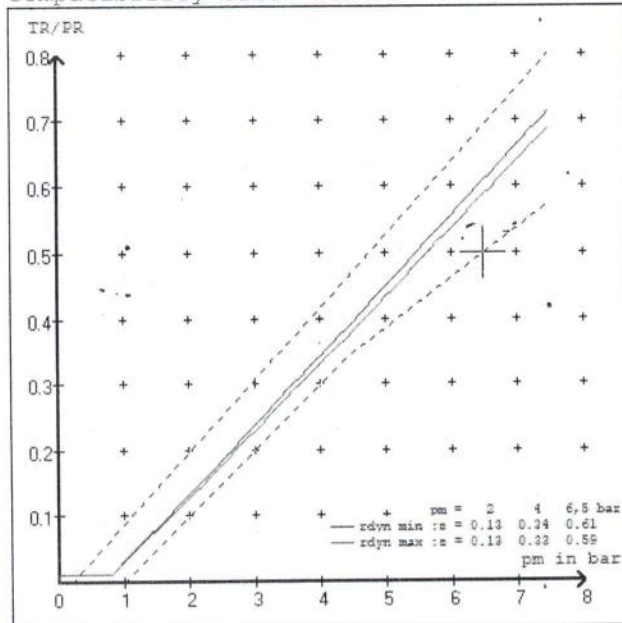at pm 1.3 bar =>   pcha in bar :   0.8   0.8   0.7   0.7   0.7

brake chamber pressure   laden
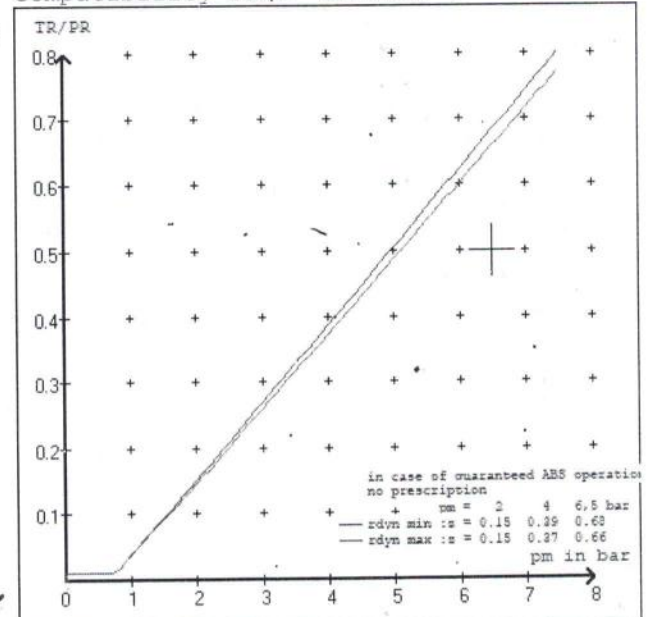
pcyl in bar

axle 1
axle 2
axle 3
axle 4
axle 5

pm in bar

brake chamber pressure   unladen

pcyl in bar

axle 1
axle 2
axle 3
axle 4
axle 5

pm in bar

compatibility band   laden

TR/PR

pm =   2   4   6,5 bar
rdyn min :z = 0.13 0.34 0.61
rdyn max :z = 0.13 0.32 0.59

pm in bar

compatibility band   unladen

TR/PR

in case of guaranteed ABS operation
no prescription

pm =   2   4   6,5 bar
rdyn min :z = 0.15 0.39 0.68
rdyn max :z = 0.15 0.37 0.66

pm in bar

curves of friction   laden

k

wheel base :
E min : 7400 mm E max : 7900
group of axle 1 : rdyn 387 mm
group of axle 2 : rdyn 387 mm

in case of guaranteed ABS operation
no prescription

z
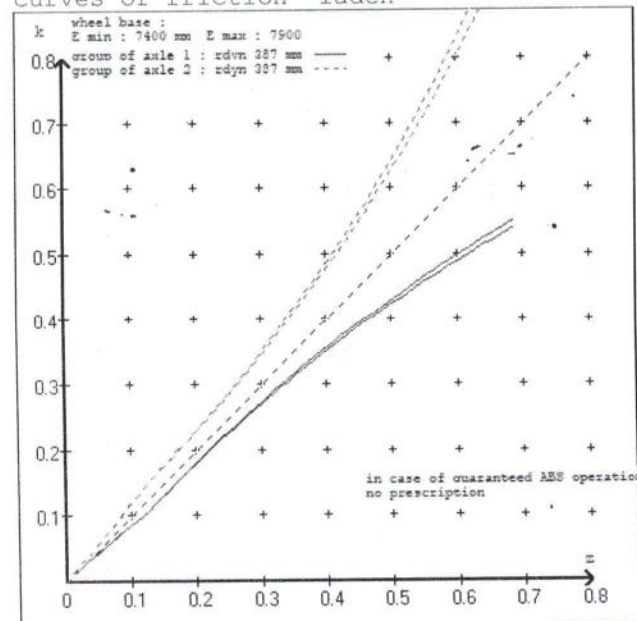
curves of friction   unladen
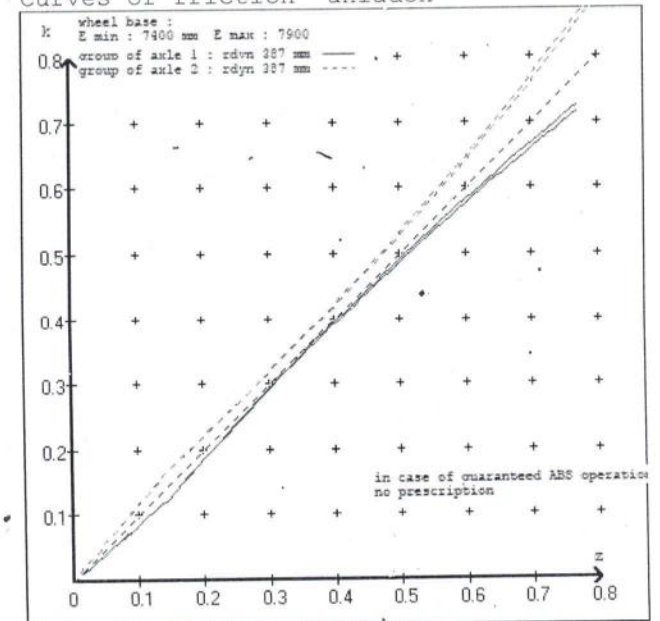
k

wheel base :
E min : 7400 mm E max : 7900
group of axle 1 : rdyn 387 mm
group of axle 2 : rdyn 387 mm

in case of guaranteed ABS operation
no prescription

z

vehicle manufacturer: DOMETT TRAILERS
trailer model   :   5AFT STOCK
trailer type   :   5-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   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   14.   (Meritor)   lever length 69 mm

brake diagram :

valve :
480 207 0.. 0   WABCO EBS relay valve   or 480 207 2.. 0
480 102 0.. 0   WABCO EBS trailer modulator

EBS input data
===============
vehicle manufacturer: DOMETT TRAILERS
trailer model   : 5AFT STOCK
trailer type   : 5-axle-full-trailer
brake calculation no.   : TP 51813A

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

assignment pm / deceleration z: pm 0.8 bar z = 0.010
(laden condition)   2.0 bar z = 0.134
                                   6.5 bar z = 0.600

axle	axle load unladen	bellow pr. unladen	brake pr. unladen	axle load laden	bellow pr. laden	brake pr. laden (pm 0.8)	brake pr. laden (pm 2.0)	brake pr. laden (pm 6.5)
1	2100	to be	2.1	8000	to be	0.4	1.3	6.1
2	2100	entered by	2.1	8000	entered by	0.4	1.3	6.1
3	1900	the vehicle	1.8	6350	the vehicle	0.3	1.4	4.8
4	1900	manufact.	1.8	6350	manufact.	0.3	1.4	4.8
5	1900		1.8	6350		0.3	1.4	4.8

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 load	pcyl	axle 2 axle load	pcyl	axle 3 axle load	pcyl	axle 4 axle load	pcyl	axle 5 axle load	pcyl
2100	2.1	2100	2.1	1900	1.8	1900	1.8	1900	1.8
2600	2.4	2600	2.4	2400	2.1	2400	2.1	2400	2.1
3100	2.8	3100	2.8	2900	2.5	2900	2.5	2900	2.5
3600	3.1	3600	3.1	3400	2.8	3400	2.8	3400	2.8
4100	3.5	4100	3.5	3900	3.1	3900	3.1	3900	3.1
4600	3.8	4600	3.8	4400	3.5	4400	3.5	4400	3.5
5100	4.1	5100	4.1	4900	3.8	4900	3.8	4900	3.8
5600	4.5	5600	4.5	5400	4.2	5400	4.2	5400	4.2
8000	6.1	8000	6.1	6350	4.8	6350	4.8	6350	4.8

spring parking brake

		axle 3	axle 4
no of TRISTOP-actuators per axle line	KDZ	2	2
TRISTOP-actuator type		T.14/16	T.14/16
lever length	lBh in mm	69	69
stat. tyre radius	rstat max in mm	376	376
at a stroke of	s in mm	30	30
min. force of spring brake	TFZ in N	6160	6160
sp.brake chamber no Meritor.....		4	4
release pressure	pLs in bar	4.8	4.8

calculation:

		axle 3	axle 4
ratio until road		3.6878	3.6878
$iFb = lBh*Eta*C*rBt/(rBn*rstat)$ for rstat in mm		376	376
brake force of spring br. Tf in N $Tf = (TFZ*KDZ-2*Co/lBh)*iFb$		45070	45070
braking rate zf laden $zf = sum (Tf)/P + 0,01$		0.272	

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 =   5718 mm   for E =   7400 mm
====================
min Ef =   6063 mm   for E =   7900 mm
====================

min Ef	=		minimum distance between front axle(s) (trailer) or support (semitrailer) 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	=	2280 mm	height of center of gravity - laden
PR	=	19050 kg	maximum bogie mass - laden
P	=	35050 kg	maximum total mass - laden
nf	=	2	no. of axle(s) with TRISTOP spring brake actuators
ng	=	3	no. of bogie axle(s)

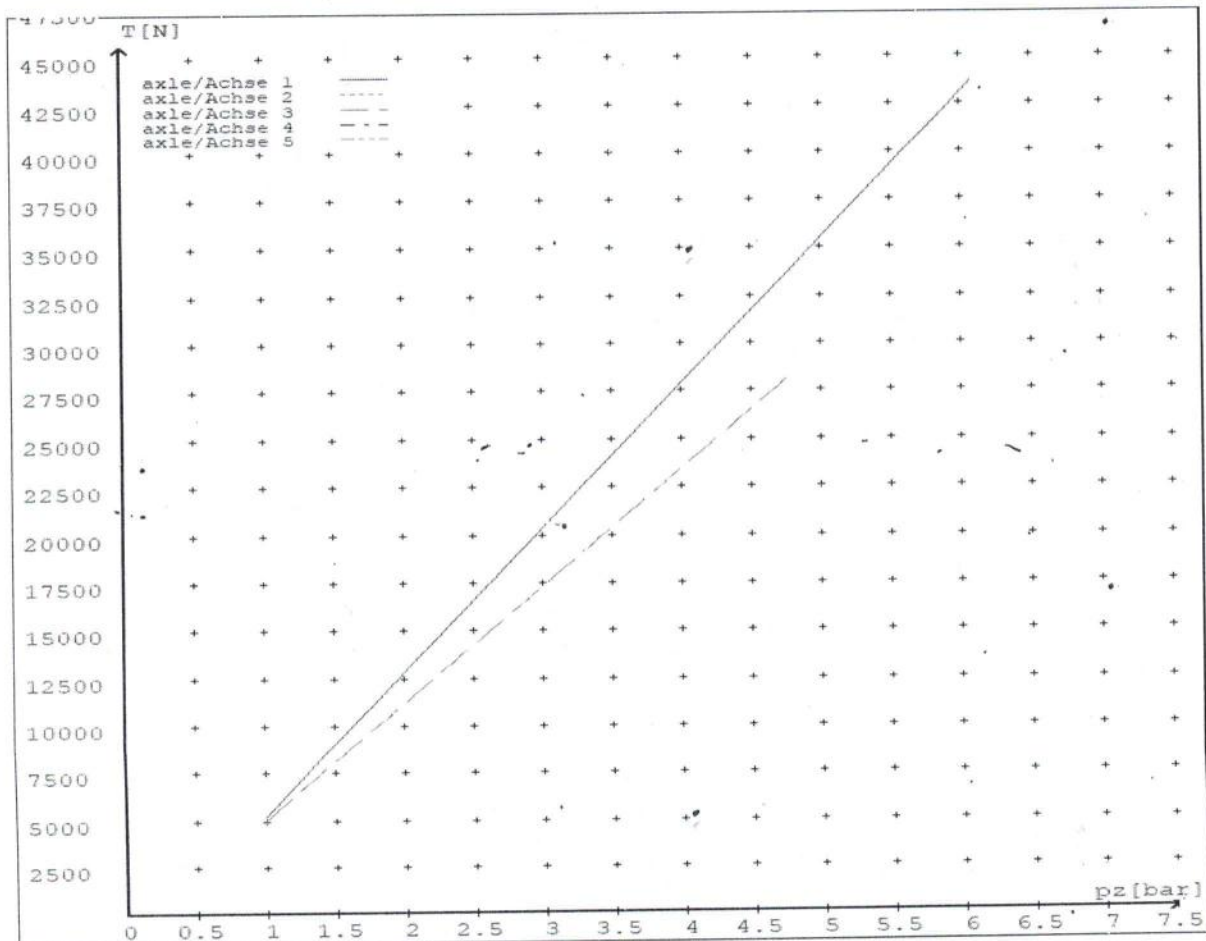**reference values**

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

	pz [bar]	T [N]	T [N]
axle 1	1.0 6.1	5186 43604	
axle 2	1.0 6.1	5186 43604	
axle 3	1.0 4.8		4987 28268
axle 4	1.0 4.8		4987 28268
axle 5	1.0 4.8		4987 28268

VIN - no.:

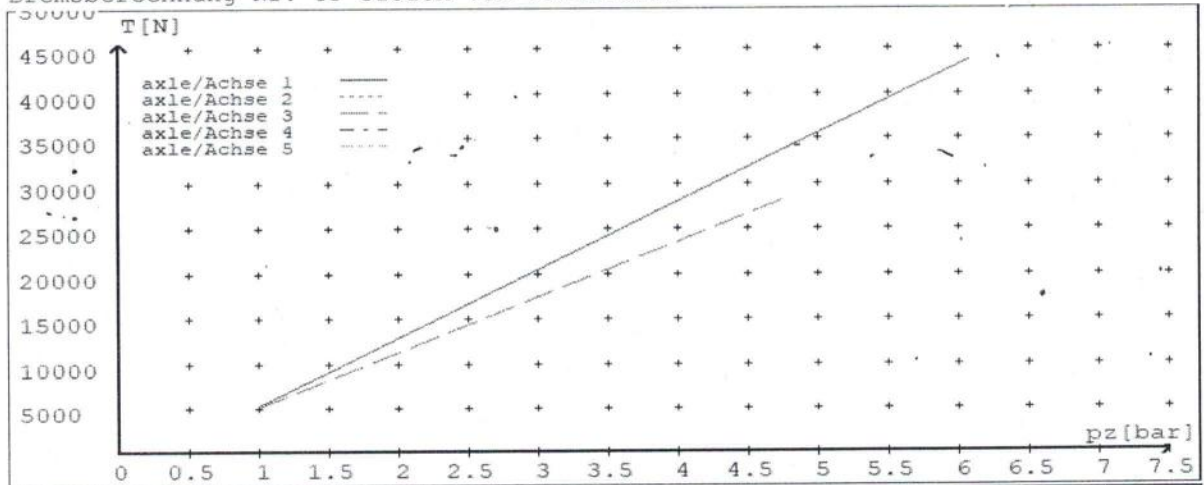|	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	20./	20./	T.14/24	T.14/24	14./
Maximum stroke smax = ...mm maximaler Hub smax = ...mm	65	65	64	64	64
Lever length = ...mm Hebellänge = ...mm	69.4	69.4	69.4	69.4	69.4

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

	reference values for z = 0.5			for max rdyn: 387 mm

reference values for z = 0.5
Angabe der Referenzwerte für z = 0.5
brake calculation no: TP 51813A date 29.11.2018
Bremsberechnung Nr: TP 51813A vom 29.11.2018

for max rdyn: 387 mm
für max rdyn: 387 mm

	Axle(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	20./	20./	T.14/24	T.14/24	14./
Maximum stroke smax = ...mm maximaler Hub smax = ...mm	65	65	64	64	64
Lever length = ...mm Hebellänge = ...mm	69.4	69.4	69.4	69..4	69.4

GOUGH Transpecs

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 32015/5.

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 32015/5. 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 dissctisfied with a Compliance issue. (Refer NZTA Deed Of Appointment Para 47.4) NZTA Helpdesk 0800 699 000

(p.p.)..................................
(J.Hirst (JEH) HVEK)

GOUGH Transpecs

NOTICE TO VEHICLE OPERATOR

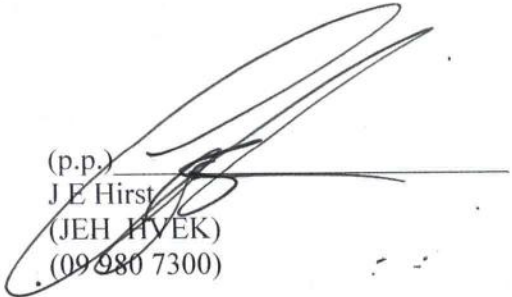This trailer is equipped with an Electronic Brake System.

To comply with the New Zealand Heavy Vehicle Brake Rule 32015/5, 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)

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

CLIENT

MANUFACTURER:	DOMETT TRAILERS
ADDRESS:	TAURIKURA DRIVE, TAURANGA 3173
FLEET:	STOCKLINES

VEHICLE DETAILS

VEHICLE TYPE:	5AFT LIVESTOCK	**CERT #:**	JH191014
YEAR:	2019	**CALCULATION #:**	TP51813
MAKE:	DOMETT	**REGO:**	N/A
MODEL:	E2501 H	**LT400 #:**	
CHASSIS #:	1895	**ORDER NUMBER:**	6706
VIN #:	7 A 9 E 2 5 0 1 0 K 1 0 2 3 8 9 5		
GVM: *TONNES*	32	**PRIME MOVER:**	EBS / EUROPEAN
LOAD CONFIGURATION:	UNIFORM DENSITY		

GROUP RATINGS: *TONNES*	FRONT	REAR
	16	19

WHEEL BASE: *METRES*	7.405

	UNLADEN COG	MAX HEIGHT	HEIGHT DECK
	0.6	4.3	0.96

COG: *METRES*	2.002

	FRONT	REAR	TOTAL
TARE: *TONNES*	4.2	5.7	9.9

	FRONT	REAR
TYRE SIZE:	215 75 R17.5	215 75 R17.5
ROLLING CIRCUMFERENCE: *MM*	2344	2344
AXLE SPACING: *METRES*	1.31	2.51

BRAKE & AXLE DETAILS

	MAKE	MODEL	TEST REPORT
AXLE:	IMT	PAN 17 DISC	WABCO
POLE WHEEL FRONT:	80	POLE WHEEL REAR:	80
LINING MATERIAL:	JURID 539	BRAKE FACTOR:	19.98
SENSED AXLES:	2 + 4		

SERIAL NUMBERS:

1	N/A
2	N/A
3	N/A
4	N/A
5	N/A

CHAMBER AND VALVING DETAILS

CHAMBERS:	AXLE 1 & 2	AXLE 3 & 4	AXLE 5
BRAND:	TSE_CHAMBERS	TSE_CHAMBERS	TSE_CHAMBERS
SIZE:	20HSCLD	1416HTLD	14HSCLD
STROKE: MILLIMETRES	65	64	64
TEST REPORT #:	BC 0041.0 Jul '07	BC0143.0	BZ 122.1 Sep '00
SPRINGBRAKE FORCE: kN	N/A	6.16	N/A
HOLDOFF PRESSURE: kPa	N/A	4.5	N/A
FOUNDATION BRAKE:	WABCO PAN 17	WABCO PAN 17	WABCO PAN 17
LEVER LENGTH: MILLIMETRES	69	69	69

BRAKE VALVES:	MAKE:	PART NUMBER:	PM PRESS. kPa
ECU PART #:	WABCO	480 102 08. 0 (MV)	80 kPa
3RD MODULATOR #:	WABCO	480 207 202 0 (12V)	80 kPa
ANTI-COMPOUNDING:	YES	ELEX:	N/A
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	0.47
SMARTBOARD/OPTILINK:	☑ SMARTBOARD	☐ OPTI-LINK		

SUSPENSION

	FRONT	REAR
SUSPENSION TYPE:	ELECTRONIC	ELECTRONIC
MAKE:	SAF_AIRSPRING	SAF_AIRSPRING
MODEL:	SAF_MODULAR	SAF_MODULAR
BELLOW SIZE:	2618, 300mm	2618, 300mm
HEIGHT CONTROL VALVE:	441 050 100 0	441 050 100 0
OTHER VALVES:	463 090 500 0 (eTASC)	463 090 500 0 (eTASC)
RIDE HEIGHT MM:	240	240
HANGER HEIGHT MM:	290	290
PEDESTAL HEIGHT MM:	40	40
LIFTAXLE:		N/A
TIPPING DUMP SWITCH:		N/A
LIFTAXLE VALVE:		N/A

AIR TANKS

AIR TANKS STANDARD:	SAE J10A / EN286-2	
	FRONT	REAR
BRAKE TANK SIZE: L	49	98
AUXILLARY TANK SIZE: L	N/A	49
PRESSURE PROTECTION:	WABCO PEM: 461 513 002 0	

AIR LINES

TEST POINTS:

CONTROL LINE:	X 1	TANK:	X 1
REAR CHAMBER:	X 2	FRONT CHAMBER:	X 1
DUOMATIC COLOUR CODED:	YES		

ELECTRONIC HEIGHT SENSOR CALIBRATION

	TIMER TICKS [F/R]	MILLIMETRE [F / R]
UPPER LEVEL:	1370 / 1351	295 / 305
NORMAL LEVEL:	1313 / 1271	240 / 240
LOWER LEVEL:	1253 / 1233	185 / 205

CHECKS AT COMMISSION OF VEHICLE

CHAMBER BUNGS REMOVED:	☑	VALVE MOUNTING:	☑
ECU BLANKING PLUGS CHECKED:	☑		

RESPONSE TIME:	MODULATOR 2.1	MODULATOR 2.2	RELAY VALVE
ms:	195	200	345

NOTES AND SPECIAL CONDITIONS

OK TO USE TP51813 BRAKE CALCULATION BECAUSE THIS SHOWS A LOWER CoG.

I UNDERSTAND AND DECLARE THAT I AM THE CERTIFIER IDENTIFIED BELOW AND HOLD A CURRENT VALID APPOINTMENT. I CERTIFY THAT AT THE TIME OF INSPECTION THE ABOVE MENTIONED VEHICLE COMPONENT DESIGN AND THIS CERTIFICATION COMPLIES IN ALL RESPECTS WITH THE LAND TRANSPORT RULE VEHICLE STANDARDS COMPLIANCE 2002 AND MY DEED OF APPOINTMENT. TO THE BEST OF MY KNOWLEDGE THE INFORMATION CONTAINED IN THIS CERTIFICATE IS TRUE AND CORRECT:

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

DATE: 18/10/2019

SIGNED:

CERTIFIER NAME & ID:	JOHN HIRST	JEH
SODC ENDORSED BY:	CHRIS CLARKE	CJC
PHONE (BUS):	09-980-7300	