

Heavy vehicle specialist inspector's or manufacturing inspecting organisation's name (where not applicable)

CHRIS CLARKE

ID

CJC

Plate number (optional)

VIN/chassis number

7A9E20018P2023258

Make

DOMETT

Component being certified:

Chassis

Load anchorage

Model (optional)

E2001 PSH-33

Log bolsters

Towing connection

Brakes

Certification category

HVEK

SRT

PSV stability

PSV rollover

Swept path

PBS

Description of work

CERTIFY TO SCHEDULE 5 OF LTR 32015: NZ HEAVY VEHICLE BRAKE SPECIFICATION.
 CARRY OUT BRAKE CALCULATIONS, INSPECTION AND ECU END OF LINE PROTOCOL.
 SAFT CURTAINSIDE **RSS ON TYRE: 265 70 R19.5**
 FOR SYSTEM ARCHITECTURE, PLEASE REFER TO PDS WORKSHEET & SCHEMATIC.
REASON FOR CERTIFICATION: NEW TRAILER BUILD

Code/standard/rule certified to

LTR 32015/5

Component load rating(s)

33 Tonnes GVM

General drawing number(s)

N/A

16 Tonne (Front brake mass)
 19 Tonne (Rear brake mass)

Supporting documents

BRAKE RULE CERTIFICATE

JH230204

BRAKE CALCULATION #

TP52610

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)

JOHN HIRST

J E H

Inspector's signature



Inspector's name (PRINT IN CAPS)

CHRIS CLARKE

ID number

CJC

Date

24-03-2023

Number

859169

CoF vehicle inspector ID (if applicable)

CoF vehicle inspector signature (if applicable)

Date

All fields are mandatory unless otherwise stated.

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 20HSCLD65

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 20HSCLD65

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

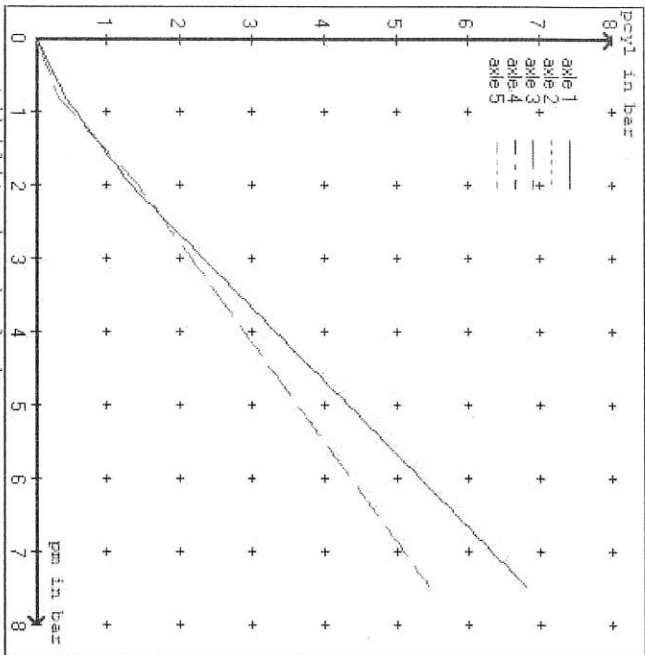
brake cylinder: Meritor 1424HTLD64

axle 5:
 valve 1: 971 002 ... 0 WABCO
 EBS emergency valve
 valve 2: 480 102 ... 0 WABCO
 EBS trailer modulator

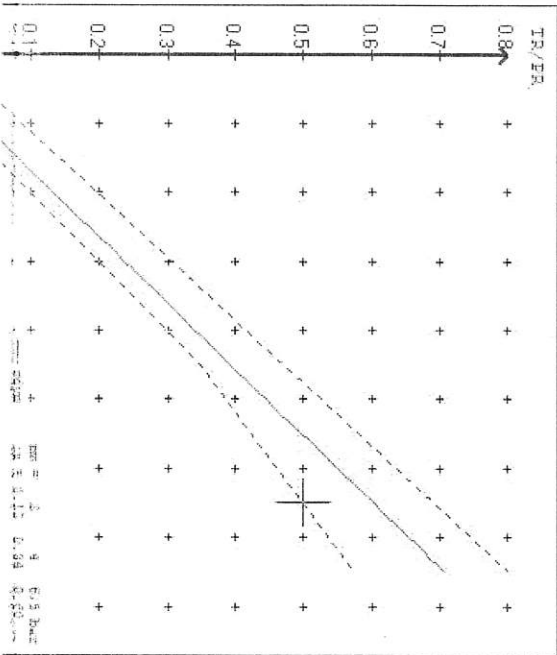
brake cylinder: Meritor 14HSCLD64

test type III	(ZIII = 0.30)	for rdyn min	: axle1	axle2	axle3	axle4	axle5	
at pm 3.6 bar =>		pcha in bar	: 2.9	2.9	2.6	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	0.8	0.8	0.8	0.8

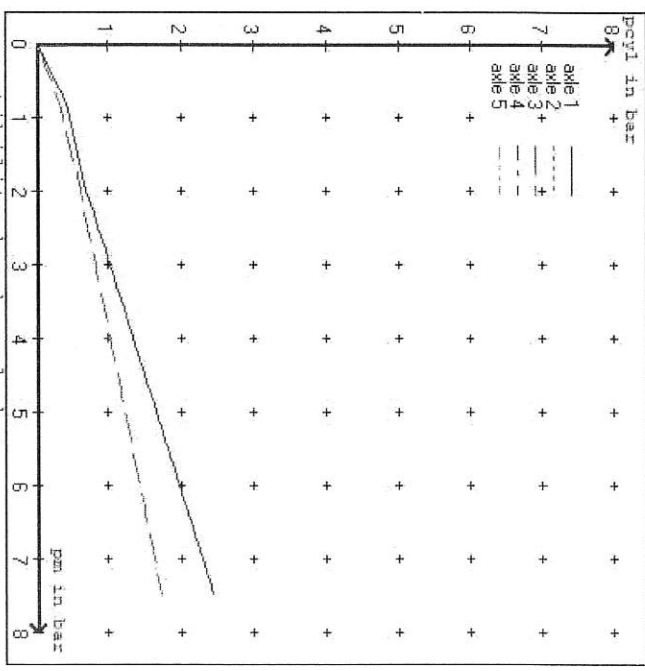
brake chamber pressure laden



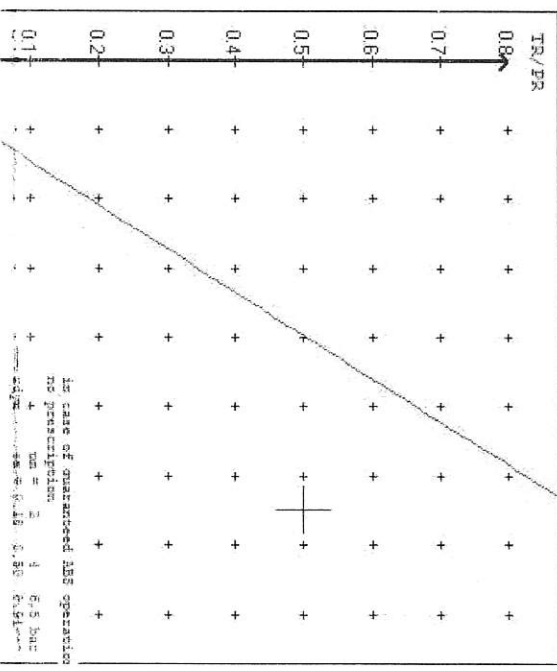
compatibility band Laden



brake chamber pressure unladen

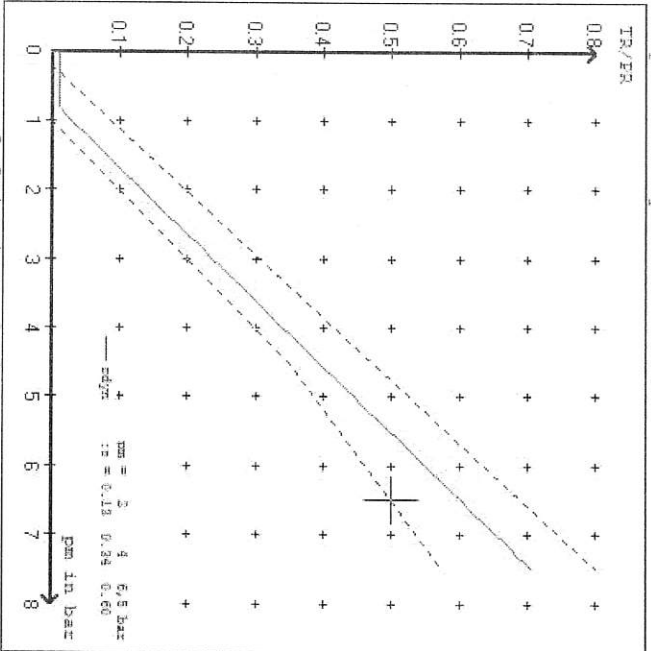
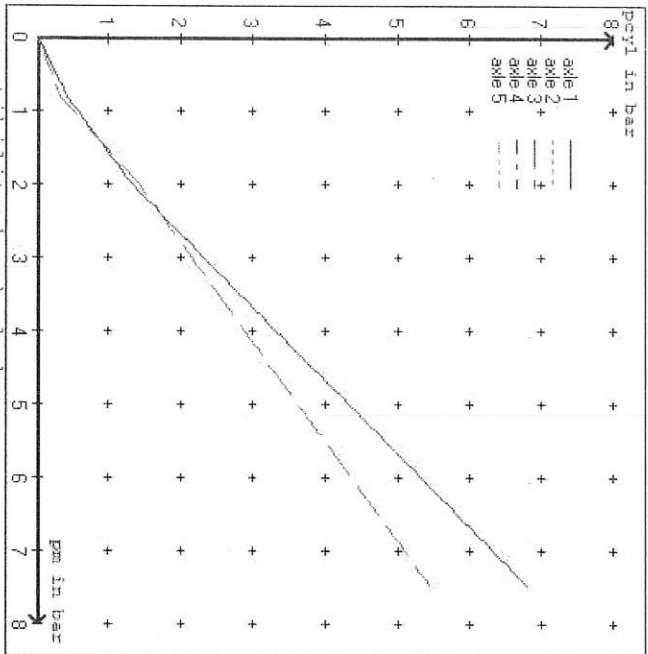


compatibility band unladen

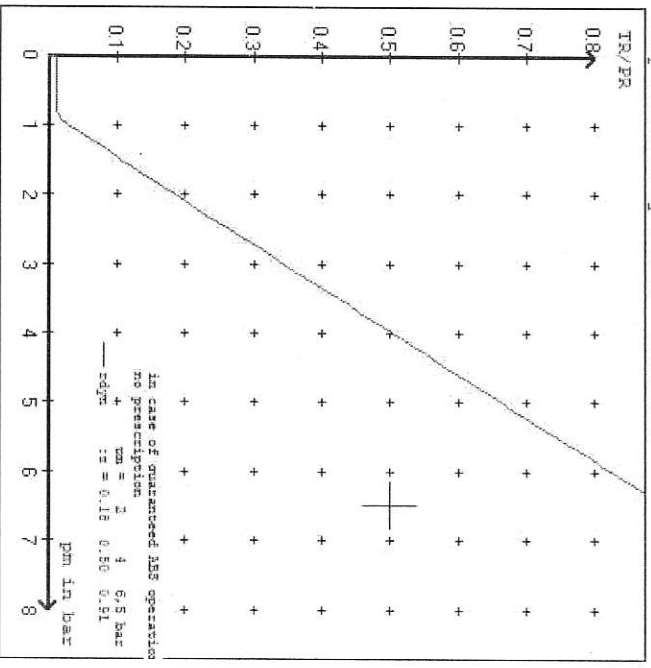
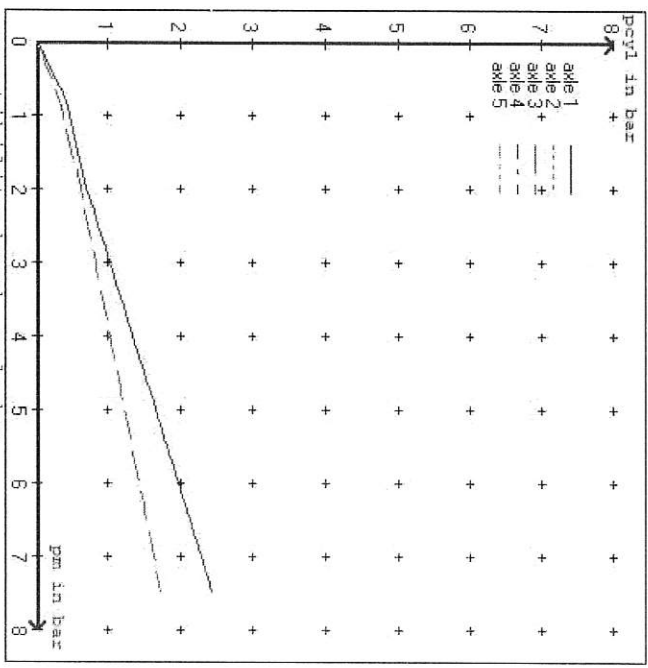
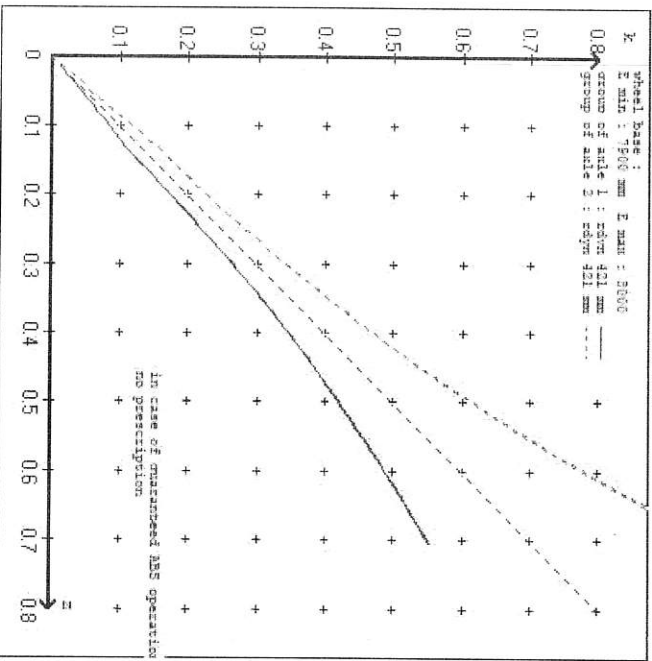


in case of unattended ABS operation
no participation

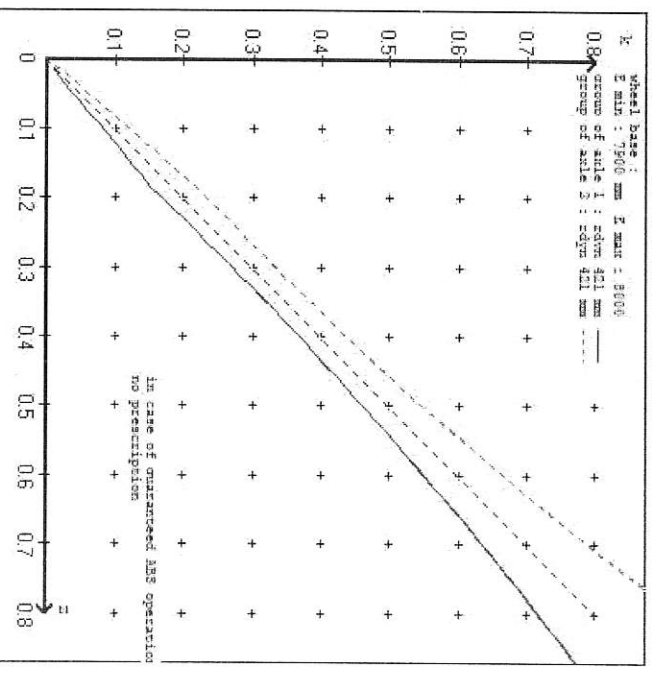
pm = 2 1 6.5 bar
eqm = 1.5 0.80 0.80



curves of friction laden



curves of friction unladen



vehicle manufacturer: DOMETT TRAILERS
 trailer model : SAFT CURTAINSIDE
 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 :
 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 : SAFT CURTAINSIDE
 trailer type : 5-axle-full-trailer
 brake calculation no. : TP 52610A

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

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

axle	control pressure pm		brake pr. unladen	axle load laden	control pressure pm		brake pr. laden	
	axle load unladen	bellow pr. unladen			bellow pr. laden	brake pr. laden		
1	1650	to be	2.1	8000	to be	0.4	1.3	5.8
2	1650	entered by	2.1	8000	entered by	0.4	1.3	5.8
3	1150	the vehicle	1.5	6350	the vehicle	0.3	1.4	4.7
4	1150	manufact.	1.5	6350	manufact.	0.3	1.4	4.7
5	1150		1.5	6350		0.3	1.4	4.7

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	axle load	axle load	axle load	axle load
1650	1650	1150	1150	1150
2150	2150	1650	1650	1650
2650	2650	2150	2150	2150
3150	3150	2650	2650	2650
3650	3650	3150	3150	3150
4150	4150	3650	3650	3650
4650	4650	4150	4150	4150
5150	5150	4650	4650	4650
8000	8000	6350	6350	6350
pcyl1	pcyl1	pcyl1	pcyl1	pcyl1
2.1	2.1	1.5	1.5	1.5
2.4	2.4	1.8	1.8	1.8
2.7	2.7	2.1	2.1	2.1
3.0	3.0	2.4	2.4	2.4
3.3	3.3	2.7	2.7	2.7
3.6	3.6	3.0	3.0	3.0
3.8	3.8	3.3	3.3	3.3
4.1	4.1	3.7	3.7	3.7
5.8	5.8	4.7	4.7	4.7

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

axle 1 : reference axle: HENDRICKSONSBW 1937	brake lining: WABCO 230
test report : ATPRO185	date : 02.03.2017
axle 2 : reference axle: HENDRICKSONSBW 1937	brake lining: WABCO 230
test report : ATPRO185	date : 02.03.2017
axle 3 : reference axle: HENDRICKSONSBW 1937	brake lining: WABCO 230
test report : ATPRO185	date : 02.03.2017
axle 4 : reference axle: HENDRICKSONSBW 1937	brake lining: WABCO 230
test report : ATPRO185	date : 02.03.2017
axle 5 : reference axle: HENDRICKSONSBW 1937	brake lining: WABCO 230
test report : ATPRO185	date : 02.03.2017

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

axle 1 (rdyn 421 mm)	T = 24.3 % Fe
axle 2 (rdyn 421 mm)	T = 24.3 % Fe
axle 3 (rdyn 421 mm)	T = 18.2 % Fe
axle 4 (rdyn 421 mm)	T = 18.2 % Fe
axle 5 (rdyn 421 mm)	T = 18.2 % Fe

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

axle 1 (sp = 58 mm)	s = 48 mm
axle 2 (sp = 58 mm)	s = 48 mm
axle 3 (sp = 56 mm)	s = 48 mm
axle 4 (sp = 56 mm)	s = 48 mm
axle 5 (sp = 56 mm)	s = 48 mm

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

axle1	ThA = 6702 N
axle2	ThA = 6702 N
axle3	ThA = 4485 N
axle4	ThA = 4485 N
axle5	ThA = 4485 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 = 41406 N
axle 2 (rdyn 421 mm)	T = 41406 N
axle 3 (rdyn 421 mm)	T = 27637 N
axle 4 (rdyn 421 mm)	T = 27637 N
axle 5 (rdyn 421 mm)	T = 27637 N

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

braking rate of the vehicle (hot)braking
(item 4.3.2 to appendix 2 to annex 11) 0.60 0.48

required braking rate $\geq 0,4$ and $\geq 0,6 * E$ (0.36)

axle 1 (rdyn 421 mm)	T = 41406 N
axle 2 (rdyn 421 mm)	T = 41406 N
axle 3 (rdyn 421 mm)	T = 27637 N
axle 4 (rdyn 421 mm)	T = 27637 N
axle 5 (rdyn 421 mm)	T = 27637 N

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

braking rate of the vehicle (hot)braking
(item 4.3.2 to appendix 2 to annex 11) 0.60 0.48

required braking rate $\geq 0,4$ and $\geq 0,6 * E$ (0.36)



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.

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.

EXCEPT FROM LAND TRANSPORT RULE; HEAVY-VEHICLE BRAKES RULE 32015.

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 Agency if dissatisfied with a Compliance issue. (Refer NZTA Notice Of Appointment Para 47.4) NZTA Helpdesk 0800 108 809



NOTICE TO VEHICLE OPERATOR

This trailer is equipped with an Electronic Brake System.

To comply with the New Zealand Heavy Vehicle Brake Rule 32015, 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.

A handwritten signature in black ink, appearing to read 'J E Hirst', is written over a horizontal line.

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.

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.

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



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

CLIENT

MANUFACTURER:	DOMETT TRAILERS
ADDRESS:	TAURIKURA DRIVE, TAURANGA 3110
FLEET:	BOOTH'S TRANSPORT

VEHICLE DETAILS

VEHICLE TYPE:	SAFT CURTAINSIDE	CERT #:	JH230204
YEAR:	2023	CALCULATION #:	TP52610
MAKE:	DOMETT	REGO #:	N/A
MODEL:	E2001 PSH-33	LT400 #:	859169
CHASSIS #:	2258	ORDER #:	9312
VIN #:	7A9E20018P2023258		
GVW: t	33	PRIME MOVER:	EBS / EUROPEAN

LOAD CONFIGURATION:

MIXED FREIGHT

GROUP RATINGS: t

FRONT	16	REAR	19
WHEEL BASE: m	7.94		

UNLADEN COG m

1.03	MAX HEIGHT m	4.3	HEIGHT DECK m	1.083
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COG: m

2.094

TARE: t

FRONT	3.3	REAR	3.5	TOTAL	6.8
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TYRE SIZE:

265 70 R19.5	FRONT	265 70 R19.5	REAR
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ROLLING CIRCUMFERENCE: mm

2645	FRONT	2645	REAR
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AXLE SPACING: m

1.31	FRONT	3	REAR
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BRAKE & AXLE DETAILS

	MAKE	MODEL	TEST REPORT															
AXLE:	HENDRICKSON	HND-PAN 19 DISC	ATPR0185															
POLE WHEEL FRONT:	100	POLE WHEEL REAR:	100															
LINING MATERIAL:	WABCO 230	BRAKE FACTOR:	23.49															
SENSED AXLE(S):	NOTES:																	
SERIAL NUMBERS:	<table border="1"> <tr> <td>1</td> <td>2 + 4</td> <td>AANL230</td> </tr> <tr> <td>2</td> <td></td> <td>AANL230</td> </tr> <tr> <td>3</td> <td></td> <td>AANL230</td> </tr> <tr> <td>4</td> <td></td> <td>AANL230</td> </tr> <tr> <td>5</td> <td></td> <td>AANL230</td> </tr> </table>			1	2 + 4	AANL230	2		AANL230	3		AANL230	4		AANL230	5		AANL230
1	2 + 4	AANL230																
2		AANL230																
3		AANL230																
4		AANL230																
5		AANL230																

CHAMBER AND VALVING DETAILS

	AXLE 1 & 2	AXLE 3 & 4	AXLE 5
CHAMBERS:	TSE_CHAMBERS	TSE_CHAMBERS	TSE_CHAMBERS
BRAND:	20HSCLD	1424TLD2H	14HSCLD
SIZE:	65	64	64
STROKE: <i>mm</i>	BC 0041.0 Jul '07	BC0143.0	TSE derived
TEST REPORT #:	N/A	6.16	N/A
SPRINGBRAKE FORCE: <i>kN</i>	N/A	4.8	N/A
HOLDOFF PRESSURE: <i>Bar</i>	WABCO PAN19	WABCO PAN19	WABCO PAN19
FOUNDATION BRAKE:	69	69	69
LEVER LENGTH: <i>mm</i>	MAKE: PART NUMBER: PMI PRESS. <i>kPa</i>		

ECU PART #:	WABCO	480 102 08. 0 (MV)	80 kPa
3RD MODULATOR #:	WABCO	480 207 202 0 (12V)	80 kPa
ANTI-COMPOUNDING:	YES		
SPRING BRAKE RELAY:	WABCO_PREV	971 002 900 0	
YARD RELEASE VALVE:	WABCO-PREV	971 002 900 0	
INLINE RELAY FITTED:	N/A	N/A	
ECU DIRECTION:	<input checked="" type="checkbox"/> FRONT	<input type="checkbox"/> REAR	FRONT FRICTION: μ 0.49

SUBSYSTEMS: SMARTBOARD OPTI-LINK CAN ROUTER 446 122 050 0
 ELEX 446 122 070 0 TAILGUARD

SUSPENSION

	FRONT	REAR
SUSPENSION TYPE:	PNEUMATIC	ELECTRONIC
MAKE:	HENDRICKSON_AIR	HENDRICKSON_AIR
MODEL:	HENDRICKSON_INTRAX	HENDRICKSON_INTRAX
BELLOW SIZE:	ZMD SHOCKLESS	ZMD SHOCKLESS
HEIGHT CONTROL VALVE:	HALDEX 90554950	441 050 100 0
OTHER VALVES:	N/A	463 090 500 0 (eTASC)
RIDE HEIGHT mm :	255	255
HANGER HEIGHT mm :	203	203
PEDESTAL HEIGHT mm :	60	60
LIFTAXLE:		N/A
TIPPING DUMP SWITCH:		N/A
LIFTAXLE VALVE:		N/A
PRESSURE LIMITING:		N/A

AIR TANKS

AIR TANKS STANDARD:	SAE J10A / EN286-2	
	FRONT	REAR
BRAKE TANK SIZE: L	46	46 + 25
AUXILIARY TANK SIZE: L	N/A	46
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	

