

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 18HSCLD64

axle 2:

valve 1: 480 207 0.. 0 WABCO or 480 207 2.. 0
EBS relay valve

brake cylinder: Meritor 18HSCLD64

axle 3:

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

brake cylinder: Meritor 1424HTLD64

axle 4:

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

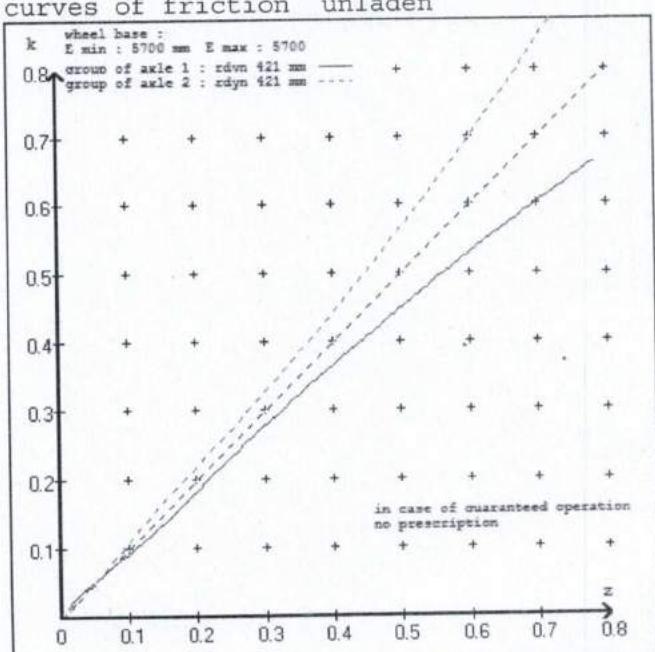
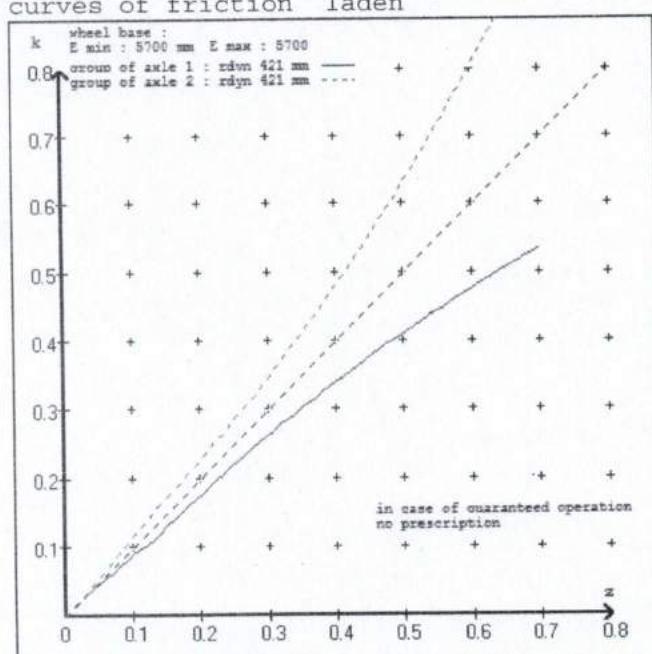
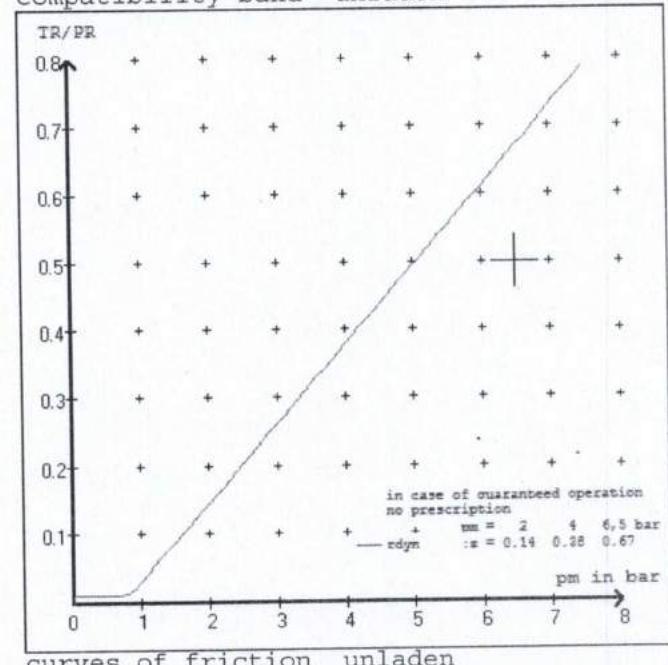
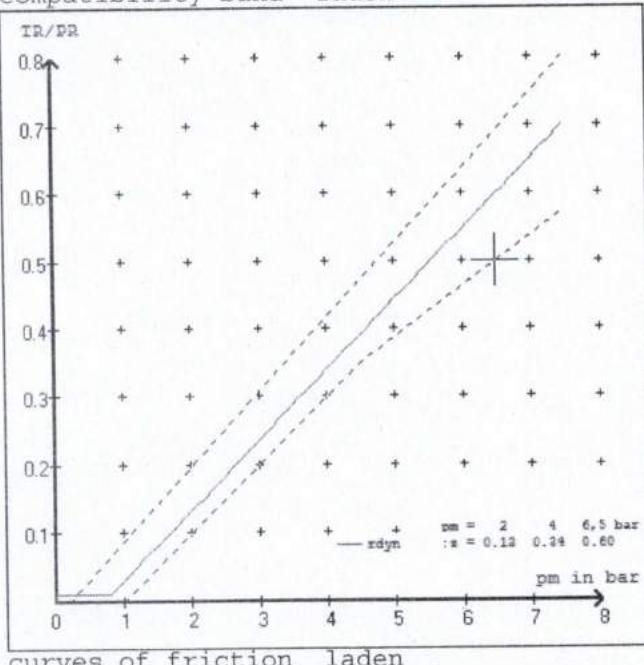
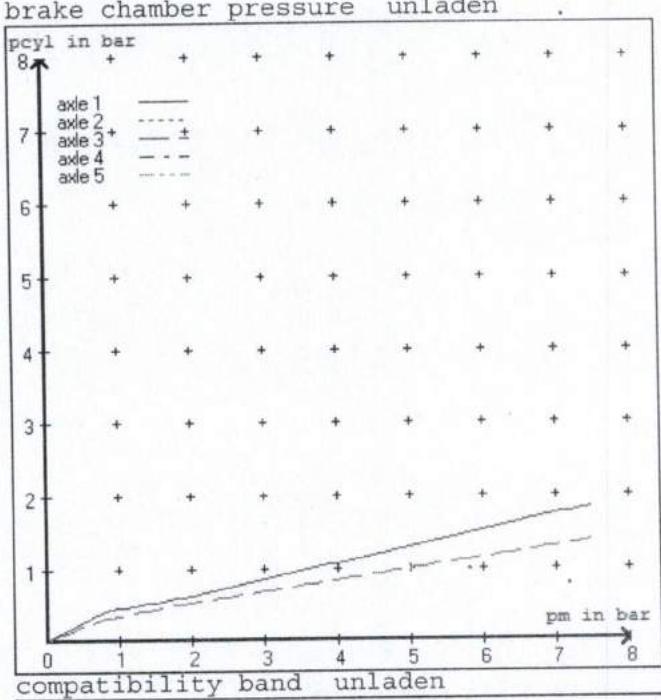
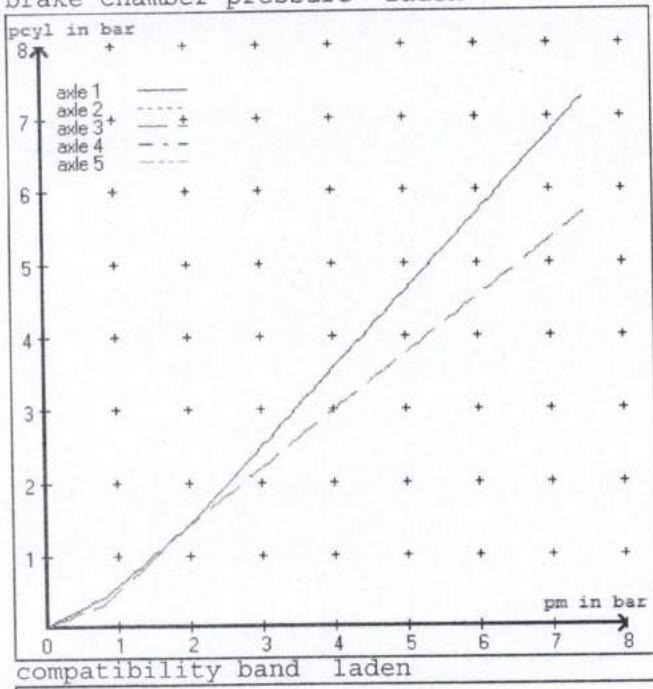
brake cylinder: Meritor 1424HTLD64

axle 5:

valve 1: 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 : 3.1 3.1 2.7 2.7 2.7
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



spring parking brake

		<u>axle 3</u>	<u>axle 4</u>
no of TRISTOP-actuators per axle line KDZ		2	2
TRISTOP-actuator type		T.14/24	T.14/24
lever length	1Bh in mm	69	69
stat. tyre radius	rstat max in mm	401	401
at a stroke of	s in mm	30	30
min. force of spring brake	TFZ in N	7605	7605
sp.brake chamber no Meritor.....		4	4
release pressure	pLs in bar	4.8	4.8

calculation:

ratio until road		3.9674	3.9674
iFb = 1Bh*Eta*C*rBt/(rBn*rstat)		401	401
for rstat in mm		59654	59654
brake force of spring br. Tf in N			
Tf = (TFZ*KDZ-2*Co/1Bh)*iFb			
braking rate	zf laden	0.356	
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

$$\text{min Ef} = E * (1 - PR/P + zferf * h/E) / (1 - zferf / (fzul * nf/ng))$$

$$\text{min Ef} = 4324 \text{ mm} \quad \text{for } E = 5700 \text{ mm}$$

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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 = 1521 mm height of center of gravity - laden
PR = 19200 kg maximum bogie mass - laden
P = 35200 kg maximum total mass - laden
nf = 2 no. of axle(s) with TRISTOP spring brake actuators
ng = 3 no. of bogie axle(s)

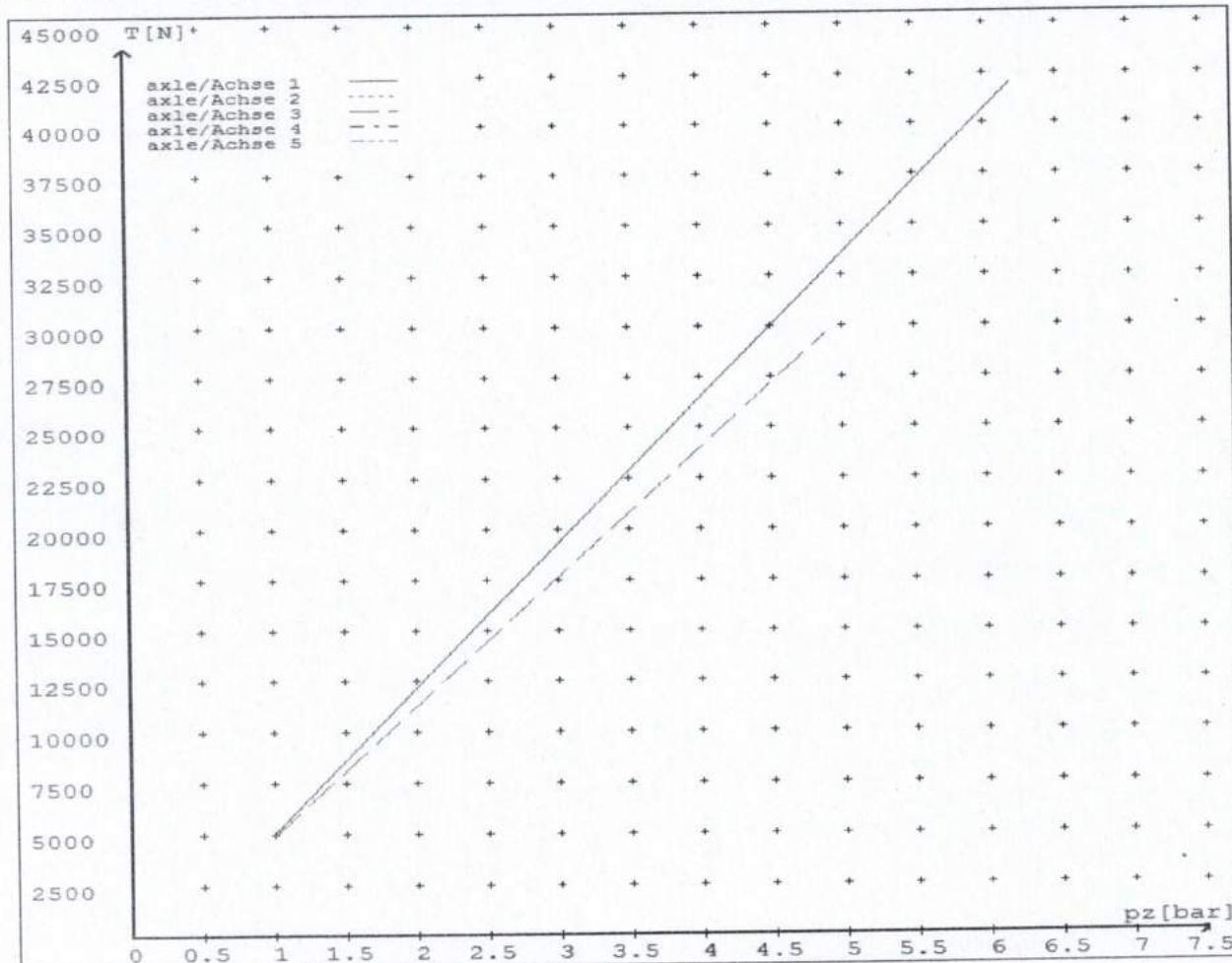
reference values

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

	pz [bar]	T [N]	T [N]
axle 1	1.0	4986	
	6.2	41953	
axle 2	1.0	4986	
	6.2	41953	
axle 3	1.0		4892
	4.9		29587
axle 4	1.0		4892
	4.9		29587
axle 5	1.0		4892
	4.9		29587

VIN - no.:

	Axe(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	18./	18./	T.14/24	T.14/24	14./
Maximum stroke smax = ...mm maximaler Hub smax = ...mm	64	64	64	64	64
Lever length = ...mm Hebellänge = ...mm	69.08	69.08	69.08	69.08	69.08



reference values for z = 0.5

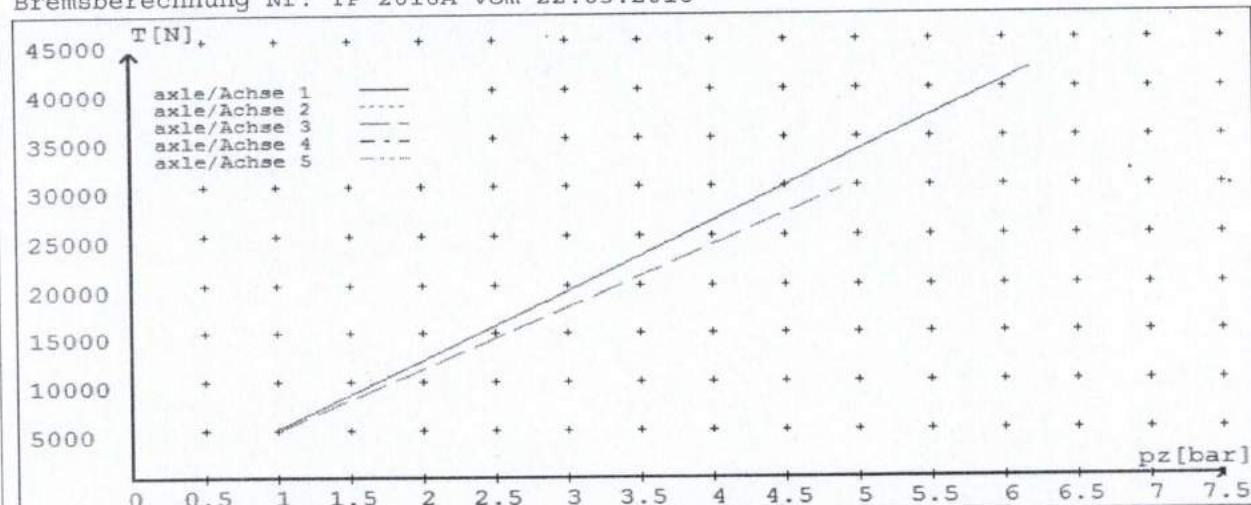
Angabe der Referenzwerte für z = 0.5

brake calculation no: TP 2016A date 22.03.2016

Bremsberechnung Nr: TP 2016A vom 22.03.2016

for max rdyn: 421 mm

für max rdyn: 421 mm



	Axe(s) / Achse(n)				
brake cylinder type (service / parking) Bremszylinder Typ (Betrieb / Fest)	18./	18./	T.14/24	T.14/24	14./
Maximum stroke smax = ...mm maximaler Hub smax = ...mm	64	64	64	64	64
Lever length = ...mm Hebellänge = ...mm	69.08	69.08	69.08	69.08	69.08

**HEAVY VEHICLE BRAKE RULE
32015/3 WORKSHEET
PROCEDURE DOCUMENTATION SHEET- (PDS)**
&
CONFIRMATION OF COMPLIANCE

CERTIFICATE NO:

LC160612

CUSTOMER NAME:

DOMETT TRAILERS

CUSTOMER ORDER NO:

4553

DATE RECEIVED:

21/03/2016

VEHICLE TYPE:

FULL TANKER

VIN / CHASSIS NO:

7A9E10017G1023485

BRIEF SPECIFICATION AS CERTIFIED TO SCHEDULE 5

BRAKE VALVES:	MAKE	TYPE
PRIMARY RELAY:	WABCO	480 102 064 0
SECONDARY RELAY:	WABCO	480 207 001 0
SPRING BRAKE RELAY:	SEALCO	110701
PARK BRAKE VALVE:	SEALCO	17600B

LOCKED RATIO:

MAKE:

SETTING:

OTHER VALVES**OTHER VALVES**

MAKE:	TYPE	SETTING

BRAKE CHAMBERS

	FRONT	REAR	5TH
MAKE:	TSE	TSE	TSE
SIZE:	18HSCLD65	1416HTLD64	14HSCLD64
STROKE: MM	65mm	64mm	64mm
SLACK LENGTH:	DISC	DISC	DISC
	MM		

BRAKE CALIPERS**BRAKE CALIPERS:**

WABCO

FRICITION MATERIAL: OEM Aftermarket**LINING BRAND****LINING BRAND****FRONT REAR**

JURID 539

JURID 539

OTHERS**TYRES:****FRONT****REAR**

265/70R 19.5

265/70R 19.5

COMMENTSEBS, SPECIAL CONDITIONS APPLY. SEE INSTRUCTIONS ON LT400 #0**NOTES:**

PACKING SLIP NO. _____ PROCESS TIME _____

CONFIRMATION OF COMPLIANCE

I CONFIRM THAT THE VEHICLE IDENTIFIED IN PAGES 1 AND 2 OF THIS CONFIRMATION OF COMPLIANCE COMPLIES WITH ALL RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY VEHICLE BRAKE RULE 32015/3, SCHEDULE 5.

DATE:

21/07/2016

SIGNED:

PP



NAME & ID:

LANCE CAWTE (LPC)

PHONE (BUS):

09 980 7300

FAX (BUS): 03 3083277

POSTAL ADDRESS:

TRANSPORT SPECIALTIES LTD
PO BOX 98-971,
MANUKAU CITY,
AUCKLAND 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 RELEVANT REQUIREMENTS OF THE CURRENT NEW ZEALAND HEAVY BRAKE RULE 32015/3 SCHEDULE 5.

DATE:

SIGNED:

NAME:

CERTIFIERS ID:

POSITION:

PHONE (BUS):

FAX (BUS):

COMMENTS:
