

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) **DON FORDHAM.** ID **HDF.**

Vehicle Registration* VIN/Chassis Number **7A9E20019F1023337**

Component being certified:

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

Certification Category **HVEK.**

Description of Work

TO COMPLY BRAKE SYSTEM. (DOMESTIC 5-AXLE FULL)

Code/Standard/Rule Certified to **N.Z.H.V.B. RULE 32015.** Component Load Rating(s) **GVM: 32000 Kg.**

General Drawing Number(s) **N/A.**

Supporting Documents **COMPLIANCE PAPERS.**

Special Conditions* **LATERAL AIRBURNER (ROLL STABILITY) FITTED & ACTIVATED**

Certification Expiry Date (if applicable) **N/A.** 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) **DON FORDHAM.** ID Number

Date **6-7-2015.** Number **507795**

CoF Vehicle Inspector ID **WC36.** CoF Vehicle Inspector Signature Date **13/7/15.**

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



Company: Don Fordham
 Author: Don Fordham

Created: 6/07/2015
 Modified: 6/07/2015

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Calculation in accordance with ECE Regulation 13 (11 Series) and EEC Directive 71/320 EEC (2002/78/EC) using Knorr-Bremse Braking System Designer software (version 14.0).
 Results based on vehicle data and components as defined by the Braking System Designer program user.
 No liability assumed by Knorr-Bremse regarding the use of non-Knorr-Bremse product data.

Customer: Domett
 Vehicle: 5-Axle Full
 Project: 7A9E20019F1023337

Vehicle

Type	2x3 Drawbar trailer
Calculated effective wheelbase [m]	7.32
Laden (max.) mass [kg]	32000.00
Laden (max.) front axle group load [kg]	14000.00
Laden vertical position of CoG [m]	1.85
Unladen (min.) mass [kg]	8019.00
Unladen (min.) front axle group load [kg]	3660.00
Unladen vertical position of CoG [m]	0.98
Laden/unladen front air spring press. [bar]	4.10/0.60
Laden/unladen rear air spring press. [bar]	3.80/0.50

	Axle 1	Axle 2	Axle 3	Axle 4	Axle 5
Axle distances [m]	<----- 1.31 ----->	<----- 5.41 ----->	<----- 1.25 ----->	<----- 1.25 ----->	<----- 1.25 ----->
Axle loads [kg]	7000	7000	6000	6000	6000
Laden					
Unladen					
Axle type	MERITOR (ROR)	MERITOR (ROR)	MERITOR (ROR)	MERITOR (ROR)	MERITOR (ROR)
	361-0071-04-FBKV	361-0071-04-FBKV	361-0071-04-FBKV	361-0071-04-FBKV	361-0071-04-FBKV
Tyre size	285/70 R 19.5	285/70 R 19.5	285/70 R 19.5	285/70 R 19.5	285/70 R 19.5
Dyn. tyre radius [mm]	435	435	435	435	435
Stat. tyre radius [mm]	413	413	413	413	413
Brake size or radius [mm]	Disc	Disc	Disc	Disc	Disc
and Brake type	Elsa195 LE	Elsa195 LE	Elsa195 LE	Elsa195 LE	Elsa195 LE
Actuator numb./axle & size	2 x 16	2 x 16	2 x 16/24	2 x 16/24	2 x 16/24
Actuator force at 6.5 bar [N]	6590	6590	6260	6260	6260
Slack adjuster length [mm]	-	-	-	-	-
Thresh.mom.[Nm] or force[N]	81.00	81.00	81.00	81.00	81.00
Brake Factor by Annex 19	22.0	22.0	22.0	22.0	22.0
Discbrake lever length [mm]	74	74	74	74	74
Int.br.factor (C*) & Mech. eff.(Eta)	-	-	-	-	-
Int.br.factor x Mech. eff.(C* x Eta)	-	-	-	-	-
S-Cam radius [mm] or mech.ratio or wedge angle[-]	-	-	-	-	-
Friction material	ROR 8616 AF	ROR 8616 AF	ROR 8616 AF	ROR 8616 AF	ROR 8616 AF
Cam shaft length [mm]	-	-	-	-	-

Calculation pressure [bar]: 6.5
 Database version: 14.0.41

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System components

No.	Name	Type	Characteristics
1	Coupling head	KU1...	-
2	Brake Chamber 16" stroke: 64	ROR	BZ 122.1 15/09/2000
3	Brake Chamber 16" stroke: 64	ROR	BZ 122.1 15/09/2000
4	Trailer EBS G2.x	ES206./9.	Sensors on axle 3
5	Brake Chamber 16" stroke: 64	ROR	BZ 122.1 15/09/2000
6	Brake Chamber 16" stroke: 64	ROR	BZ 122.1 15/09/2000
7	Electronic Module Premium	ES2071	-
8	Spring Brake Actuator 16/24" stroke: 76/76	ROR	BZ 141.0 / 08/03/2002
9	Spring Brake Actuator 16/24" stroke: 76/76	ROR	BZ 141.0 / 08/03/2002
10	Spring Brake Actuator 16/24" stroke: 76/76	ROR	BZ 141.0 / 08/03/2002
11	Spring Brake Actuator 16/24" stroke: 76/76	ROR	BZ 141.0 / 08/03/2002
12	Spring Brake Actuator 16/24" stroke: 76/76	ROR	BZ 141.0 / 08/03/2002
13	Spring Brake Actuator 16/24" stroke: 76/76	ROR	BZ 141.0 / 08/03/2002

Axle identifiers

Axle	Axle identifier	Brake identifier	Axle load ident.	Test report identifier	Suffix	Test code
Axle 1						ID4-361-0071-04-FBKV
Axle 2						ID4-361-0071-04-FBKV
Axle 3						ID4-361-0071-04-FBKV
Axle 4						ID4-361-0071-04-FBKV
Axle 5						ID4-361-0071-04-FBKV



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Service brake Laden vehicle

	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
Deceleration [m/s ²]	0.00	0.22	0.74	1.26	1.78	2.30	2.83	3.35	3.87	4.39	4.92	5.44	5.96	6.48	7.00
Braking rate [%]	0.00	2.20	7.53	12.85	18.17	23.49	28.82	34.14	39.46	44.78	50.11	55.43	60.75	66.07	71.40
Axle 1 actuator pres. [bar]	0.2	0.69	1.17	1.66	2.14	2.62	3.1	3.59	4.07	4.55	5.03	5.52	6	6.48	6.97
Axle 1 braking torque [kNm]	0.00	0.93	2.61	4.29	5.97	7.65	9.33	11.01	12.69	14.37	16.05	17.73	19.41	21.09	22.77
Axle 1 braking force [kN]	0.00	2.14	6.00	9.86	13.73	17.59	21.45	25.31	29.18	33.04	36.90	40.76	44.63	48.49	52.35
Axle 1 adhesion utilised	0.00	0.03	0.08	0.13	0.18	0.23	0.27	0.31	0.35	0.38	0.42	0.45	0.48	0.51	0.54
Axle 2 actuator pres. [bar]	0.2	0.69	1.17	1.66	2.14	2.62	3.1	3.59	4.07	4.55	5.03	5.52	6	6.48	6.97
Axle 2 braking torque [kNm]	0.00	0.93	2.61	4.29	5.97	7.65	9.33	11.01	12.69	14.37	16.05	17.73	19.41	21.09	22.77
Axle 2 braking force [kN]	0.00	2.14	6.00	9.86	13.73	17.59	21.45	25.31	29.18	33.04	36.90	40.76	44.63	48.49	52.35
Axle 2 adhesion utilised	0.00	0.03	0.08	0.13	0.18	0.23	0.27	0.31	0.35	0.38	0.42	0.45	0.48	0.51	0.54
Axle 3 actuator pres. [bar]	0.2	0.63	1.02	1.41	1.8	2.18	2.57	2.96	3.35	3.74	4.12	4.51	4.9	5.29	5.68
Axle 3 braking torque [kNm]	0.00	0.38	1.69	2.99	4.29	5.59	6.90	8.20	9.50	10.80	12.11	13.41	14.71	16.01	17.32
Axle 3 braking force [kN]	0.00	0.88	3.88	6.87	9.86	12.86	15.85	18.85	21.84	24.84	27.83	30.83	33.82	36.81	39.81
Axle 3 adhesion utilised	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00
Axle 4 actuator pres. [bar]	0.2	0.63	1.02	1.41	1.8	2.18	2.57	2.96	3.35	3.74	4.12	4.51	4.9	5.29	5.68
Axle 4 braking torque [kNm]	0.00	0.38	1.69	2.99	4.29	5.59	6.90	8.20	9.50	10.80	12.11	13.41	14.71	16.01	17.32
Axle 4 braking force [kN]	0.00	0.88	3.88	6.87	9.86	12.86	15.85	18.85	21.84	24.84	27.83	30.83	33.82	36.81	39.81
Axle 4 adhesion utilised	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00
Axle 5 actuator pres. [bar]	0.2	0.63	1.02	1.41	1.8	2.18	2.57	2.96	3.35	3.74	4.12	4.51	4.9	5.29	5.68
Axle 5 braking torque [kNm]	0.00	0.38	1.69	2.99	4.29	5.59	6.90	8.20	9.50	10.80	12.11	13.41	14.71	16.01	17.32
Axle 5 braking force [kN]	0.00	0.88	3.88	6.87	9.86	12.86	15.85	18.85	21.84	24.84	27.83	30.83	33.82	36.81	39.81
Axle 5 adhesion utilised	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00

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Laden vehicle

Service	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
brake	0.00	0.22	0.74	1.26	1.78	2.30	2.83	3.35	3.87	4.39	4.92	5.44	5.96	6.48	7.00
Coupling head pres. [bar]	0.00	2.20	7.53	12.85	18.17	23.49	28.82	34.14	39.46	44.78	50.11	55.43	60.75	66.07	71.40
Deceleration [m/s ²]	0.2	0.69	1.17	1.66	2.14	2.62	3.1	3.59	4.07	4.55	5.03	5.52	6	6.48	6.97
Braking rate [%]	0.00	0.93	2.61	4.29	5.97	7.65	9.33	11.01	12.69	14.37	16.05	17.73	19.41	21.09	22.77
Axle 1 actuator pres. [bar]	0.00	2.14	6.00	9.86	13.73	17.59	21.45	25.31	29.18	33.04	36.90	40.76	44.63	48.49	52.35
Axle 1 braking torque [kNm]	0.00	0.03	0.08	0.13	0.18	0.23	0.27	0.31	0.35	0.38	0.42	0.45	0.48	0.51	0.54
Axle 1 braking force [kN]	0.2	0.69	1.17	1.66	2.14	2.62	3.1	3.59	4.07	4.55	5.03	5.52	6	6.48	6.97
Axle 1 adhesion utilised	0.00	0.93	2.61	4.29	5.97	7.65	9.33	11.01	12.69	14.37	16.05	17.73	19.41	21.09	22.77
Axle 2 actuator pres. [bar]	0.00	0.93	2.61	4.29	5.97	7.65	9.33	11.01	12.69	14.37	16.05	17.73	19.41	21.09	22.77
Axle 2 braking torque [kNm]	0.00	2.14	6.00	9.86	13.73	17.59	21.45	25.31	29.18	33.04	36.90	40.76	44.63	48.49	52.35
Axle 2 braking force [kN]	0.00	0.03	0.08	0.13	0.18	0.23	0.27	0.31	0.35	0.38	0.42	0.45	0.48	0.51	0.54
Axle 2 adhesion utilised	0.2	0.63	1.02	1.41	1.8	2.18	2.57	2.96	3.35	3.74	4.12	4.51	4.9	5.29	5.68
Axle 3 actuator pres. [bar]	0.00	0.38	1.69	2.99	4.29	5.59	6.90	8.20	9.50	10.80	12.11	13.41	14.71	16.01	17.32
Axle 3 braking torque [kNm]	0.00	0.88	3.88	6.87	9.86	12.86	15.85	18.85	21.84	24.84	27.83	30.83	33.82	36.81	39.81
Axle 3 braking force [kN]	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00
Axle 3 adhesion utilised	0.2	0.63	1.02	1.41	1.8	2.18	2.57	2.96	3.35	3.74	4.12	4.51	4.9	5.29	5.68
Axle 4 actuator pres. [bar]	0.00	0.38	1.69	2.99	4.29	5.59	6.90	8.20	9.50	10.80	12.11	13.41	14.71	16.01	17.32
Axle 4 braking torque [kNm]	0.00	0.88	3.88	6.87	9.86	12.86	15.85	18.85	21.84	24.84	27.83	30.83	33.82	36.81	39.81
Axle 4 braking force [kN]	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00
Axle 4 adhesion utilised	0.2	0.63	1.02	1.41	1.8	2.18	2.57	2.96	3.35	3.74	4.12	4.51	4.9	5.29	5.68
Axle 5 actuator pres. [bar]	0.00	0.38	1.69	2.99	4.29	5.59	6.90	8.20	9.50	10.80	12.11	13.41	14.71	16.01	17.32
Axle 5 braking torque [kNm]	0.00	0.88	3.88	6.87	9.86	12.86	15.85	18.85	21.84	24.84	27.83	30.83	33.82	36.81	39.81
Axle 5 braking force [kN]	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00
Axle 5 adhesion utilised	0.00	0.02	0.07	0.12	0.18	0.24	0.31	0.38	0.45	0.53	0.61	0.70	0.79	0.89	1.00

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Calculation pressure [bar]: 6.5

Database version: 14.0.41



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Service Unladen vehicle

	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
Coupling head pres. [bar]	0.00	0.24	1.30	2.35	3.40	4.45	5.50	6.56	7.61	8.66	9.72	10.77	11.82	12.87	13.93
Deceleration [m/s ²]	0.00	2.48	13.22	23.96	34.66	45.40	56.11	66.85	77.60	88.29	99.03	109.77	120.49	131.23	141.97
Braking rate [%]	0.2	0.53	0.74	0.96	1.18	1.39	1.61	1.82	2.04	2.25	2.47	2.68	2.9	3.12	3.33
Axle 1 actuator pres. [bar]	0.00	0.37	1.12	1.87	2.62	3.37	4.12	4.87	5.62	6.37	7.12	7.87	8.62	9.37	10.12
Axle 1 braking torque [kNm]	0.00	0.85	2.58	4.30	6.02	7.75	9.47	11.20	12.93	14.64	16.37	18.10	19.82	21.55	23.27
Axle 1 braking force [kN]	0.00	0.05	0.14	0.22	0.30	0.38	0.45	0.52	0.59	0.65	0.71	0.76	0.82	0.87	0.92
Axle 1 adhesion utilised	0.2	0.53	0.74	0.96	1.18	1.39	1.61	1.82	2.04	2.25	2.47	2.68	2.9	3.12	3.33
Axle 2 actuator pres. [bar]	0.00	0.37	1.12	1.87	2.62	3.37	4.12	4.87	5.62	6.37	7.12	7.87	8.62	9.37	10.12
Axle 2 braking torque [kNm]	0.00	0.85	2.58	4.30	6.02	7.75	9.47	11.20	12.93	14.64	16.37	18.10	19.82	21.55	23.27
Axle 2 braking force [kN]	0.00	0.05	0.14	0.22	0.30	0.38	0.45	0.52	0.59	0.65	0.71	0.76	0.82	0.87	0.92
Axle 2 adhesion utilised	0.2	0.53	0.74	0.96	1.18	1.39	1.61	1.82	2.04	2.25	2.47	2.68	2.9	3.12	3.33
Axle 3 actuator pres. [bar]	0.00	0.04	0.76	1.49	2.21	2.93	3.65	4.38	5.10	5.82	6.55	7.27	8.00	8.72	9.44
Axle 3 braking torque [kNm]	0.00	0.04	1.75	3.41	5.07	6.74	8.40	10.06	11.73	13.39	15.05	16.72	18.38	20.05	21.71
Axle 3 braking force [kN]	0.00	0.01	0.13	0.25	0.39	0.53	0.68	0.85	1.02	1.20	1.40	1.61	1.83	2.08	2.34
Axle 3 adhesion utilised	0.2	0.53	0.74	0.96	1.18	1.39	1.61	1.82	2.04	2.25	2.47	2.68	2.9	3.12	3.33
Axle 4 actuator pres. [bar]	0.00	0.04	0.76	1.49	2.21	2.93	3.65	4.38	5.10	5.82	6.55	7.27	8.00	8.72	9.44
Axle 4 braking torque [kNm]	0.00	0.04	1.75	3.41	5.07	6.74	8.40	10.06	11.73	13.39	15.05	16.72	18.38	20.05	21.71
Axle 4 braking force [kN]	0.00	0.01	0.13	0.25	0.39	0.53	0.68	0.85	1.02	1.20	1.40	1.61	1.83	2.08	2.34
Axle 4 adhesion utilised	0.2	0.53	0.74	0.96	1.18	1.39	1.61	1.82	2.04	2.25	2.47	2.68	2.9	3.12	3.33
Axle 5 actuator pres. [bar]	0.00	0.04	0.76	1.49	2.21	2.93	3.65	4.38	5.10	5.82	6.55	7.27	8.00	8.72	9.44
Axle 5 braking torque [kNm]	0.00	0.04	1.75	3.41	5.07	6.74	8.40	10.06	11.73	13.39	15.05	16.72	18.38	20.05	21.71
Axle 5 braking force [kN]	0.00	0.01	0.13	0.25	0.39	0.53	0.68	0.85	1.02	1.20	1.40	1.61	1.83	2.08	2.34
Axle 5 adhesion utilised	0.00	0.01	0.13	0.25	0.39	0.53	0.68	0.85	1.02	1.20	1.40	1.61	1.83	2.08	2.34

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Calculation pressure [bar]: 6.5

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Miscellaneous

Coupling head pressure where $z = 22.5\%$ (laden case)

Pressure[bar] 2.9

Brake chamber pressure where $z = 22.5\%$ (laden case)

Pressure[bar] Axle1 : 2.52 Axle2 : 2.52 Axle3 : 2.11 Axle4 : :

Automatic braking performance (laden case) at 6.0 bar

Deceleration [m/s^2] : 4.93

Braking rate [%] 50.3

Vehicle performance in case of a load sensing device control failure (laden case) at 6.5 bar

Front axle group

Deceleration [m/s^2] : 5.96

Braking rate [%] 60.7

Rear axle group

Deceleration [m/s^2] : 5.96

Braking rate [%] 60.7

Parking brake Laden vehicle

	Up	Down
Max.slope [%] (must be > 18%)	-57.66	38.26

(max.spring force = 7120 N at 30 mm strok
Required spring force at 18% slope

Axle 1 [N]	-
Axle 2 [N]	-
Axle 3 [N]	2307
Axle 4 [N]	2307
Axle 5 [N]	2307

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Trailer EBS parameters

Coupling head pressure [bar]	Brake chamber pressure [bar]	
	Unladen	Laden
0.7	0.4	
1.6	0.79	1.1
6.5	2.9	4.9
Low-range comp. at 1.6 bar	0	0
High-range comp. at 4.5 bar	0	0
Air suspension	Unladen	Laden
Axle boogie load [kg]	4359	18000
voltages [V]	-	-
pressures [bar] <small>defined by vehicle manufacturer</small>	0.5	3.8

Pressure limitation [bar] -

3rd modulator logic is LS characteristic

Slip differential [%] - from - [bar]

Axle and Tyre information

Number of axles: 5
 Dynamic tyre radius [cm]: 43.5

EMP parameters:

Coupling head pressure [bar]	Brake chamber pressure [bar]	
	Unladen	Laden
0.7	0.4	
1.6	0.79	1.27
6.5	2.9	6
Low-range comp. at 1.6 bar	0	0
High-range comp. at 4.5 bar	0	0
Air suspension	Unladen	Laden
Axle boogie load [kg]	3660	14000
voltages [V]	-	-
pressures [bar]	0.6	4.1

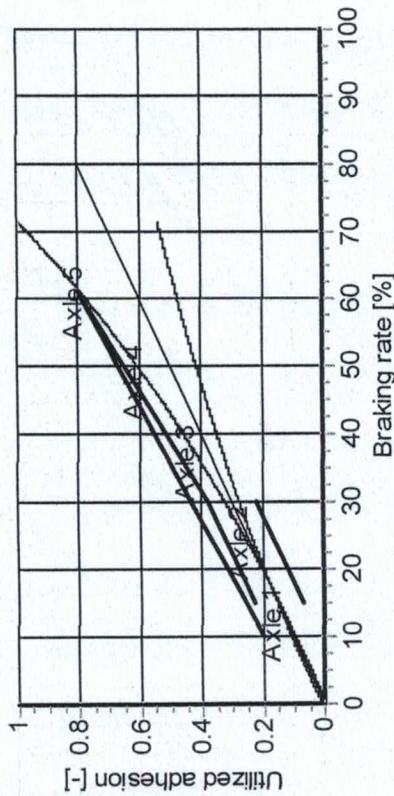
Warning! This brake calculation has been produced using information from a source not controlled by Knorr-Bremse. The results produced by this calculation are therefore dependent upon the accuracy of this information and Knorr-Bremse does not take responsibility for any resulting errors.

Calculation pressure [bar]: 6.5

Database version: 14.0.41

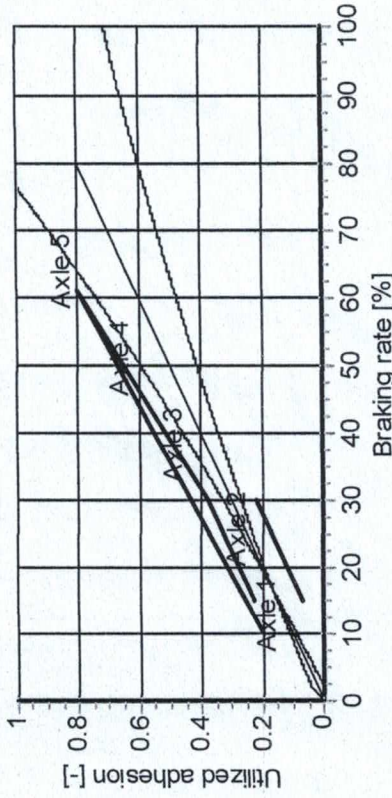


Laden vehicle - adhesion utilisation



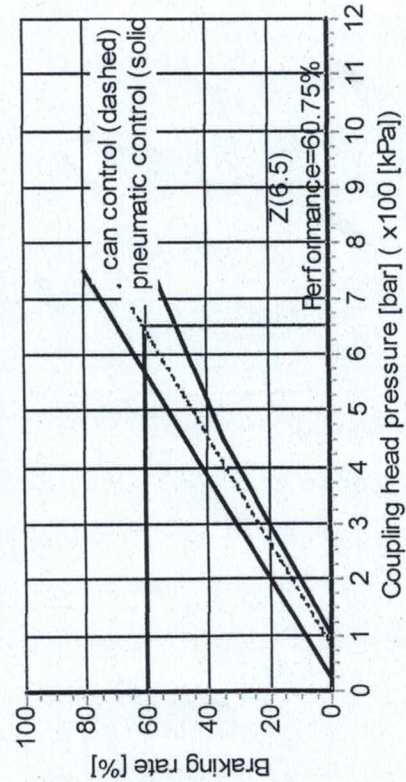
(With anti-lock system the adhesion requirements do not have to be fulfilled.)

Unladen vehicle - adhesion utilisation

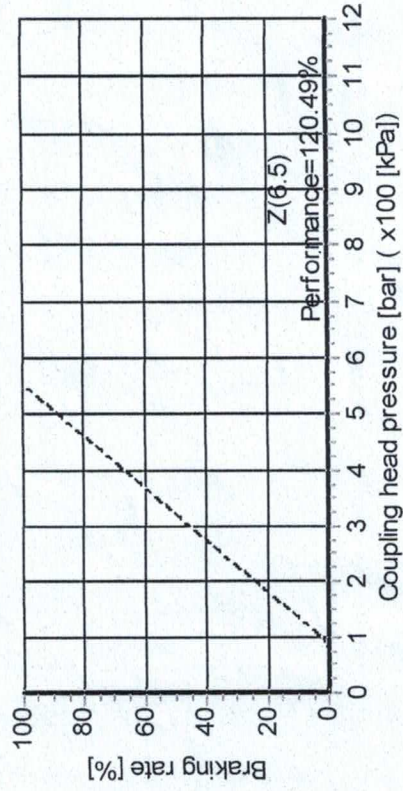


(With anti-lock system the adhesion requirements do not have to be fulfilled.)

Laden vehicle - compatibility with Pneumatic and CAN control



Unladen vehicle - compatibility with Pneumatic and CAN control



HALDEX EBS/ABS END OF LINE TEST REPORT



ECU Configuration	4S : 3M Front Remote, Rear Master ECU Left
Vehicle Ident Number	7A9E20019F1023337
Brake Calculation	023337
Manufacturer	Domett
ECU Serial Number	046104_52
Software	E707
Odometer (km)	30
Date (DD/MM/YY)	08/07/15
Time	12:44

Wheel Scale	Rdyn (mm)	No. Of Teeth
S1A/S1B	421	90
S2A/S2B	421	90

Sensor Tests			Not Applicable
S1A	S1B	S2A	S2B
-	-	-	-

Sensor-Modulator Tests			Passed
S1A	S1B	S2A	S2B
Passed	Passed	Passed	Passed

Push Through Tests			Passed
P21	P22	P23	
6.4	6.4	7.2	

EBS Pressure Tests					Passed		
	INPUTS		OUTPUTS		Results		
	MASTER	REMOTE	MASTER	REMOTE	P21	P22	P23
Unladen Suspension	0.9	0.9					
Laden Suspension	3.8	4.1					
P0	0.4	0.4					
PD	0.7	0.7	0.4	0.4	0.4	0.3	0.4
PP1 [U]					0.7	0.7	0.8
PP1 [L]	1.5	1.5	1.0	1.1	0.9	1.0	1.1
PP2 [U]					2.0	2.0	2.1
PP2 [L]	4.5	4.5	3.3	4.1	3.3	3.2	4.1
PP3 [U]	6.5	6.5	2.9	2.9	3.0	2.9	3.0
PP3 [L]	6.5	6.5	4.9	6.0	4.9	4.8	5.9
P Limit			8.0	8.0			

Options			
		REV	

Auxiliary Tests			Passed
Lamp		On / Off	Passed
Aux 1	No Aux		-
Aux 2 Red	No Aux		-
Aux 2 Yel	No Aux		-
Aux 3 Red	No Aux		-
Aux 3 Yel	No Aux		-
Aux 4	No Aux		-
Aux 5	No Aux		-
Lat Acc Internal	Fitted		Passed
24N			-

Leak Test	Not Applicable	
Pressure Drop	-	Time Period
		-

Notes	

Operator's Name	Brakespec Ltd
Signature	