

Brake Specs



BRAKESPEC

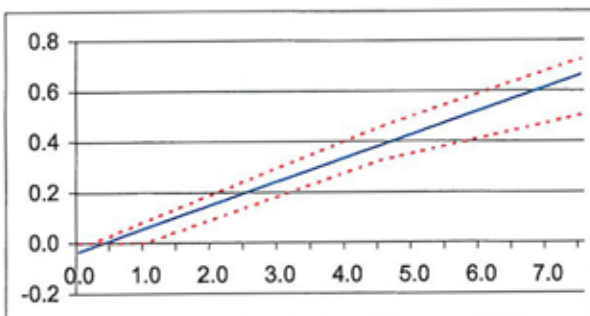
REFERENCE NUMBER	SEMI TRAILER TANDEM AXLE	DATE	
CUSTOMER	2835A	29-Mar-2012	
ORDER No.	KNIGHT BODIES	REAR LINK	
JOB No	ROB	GVM	25000 Kg
VIN No		TARE	6750 Kg
ABS requirement ECE 13	YES	LADEN AU	18000 Kg
ABS TYPE	2S/1M	UNLADEN AU	3960 Kg
ABS PART NUMBER	364 328 001	LADEN C OF G	1.9 m
MAX.TYRE SIZE	12R22.5	UNLADEN C OF G	1.2 m
	HENRED (420 * 180)	WHEELBASE	8.02 m
		ROLLING RADIUS	0.526 m
		AXLE RATIO	11 :1
		BRAKE THRESHOLD TORQUE	75 Nm
		PRESSURE MAX	8.5 Bar
		PRESSURE MIN	2.6 Bar
		DESIGN PRESSURE	6.5 Bar

STEEL SUSP. MANUF.	HENRED 8 BLADE	SUSPENSION TYPE	STEEL		
SERVICE BOOSTER SIZE	PARK BRAKE BOOSTER SIZE	SLACK-ADJUSTER LENGTH	MAX BRAKE TORQUE	MIN BRAKE TORQUE	
AXLE 1	24	30	125	25452.4 Nm	10181.0
AXLE 2	24	30	150	30542.9 Nm	12217.1
			Total Torque	55995.3 Nm	22398.1
			Total Force	10851.7 Kg	4340.7

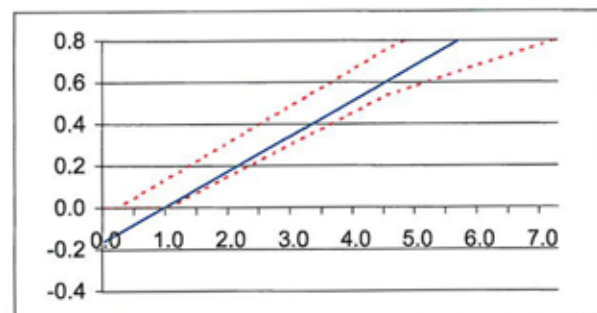
Park brake actual force @ 25mm stroke 79133.08 N
 Max. park brake force required 43430.03 N
 Park brake 18% gradient test **PASS**

Load sensing part no.: RL3523AF
 Valve ratio: 2.80 :1
 Spring Defl. (f): 37 mm
 Loadsensing Lever Length (L) 96 mm
 Pressure In 650 kPa
 Recommended Air Volume for brake system 80 Litre

AXLE MASS kg	PRES. OUT kPa	SPRING DEFLECTION mm
3960	260	0
7470.0	358	9
10980	455	18
14490.0	553	28
18000	650	37



LADEN
Kc
1.11
60.3%



UNLADEN
Kv
1.84
109.6%



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