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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY



COMMUNICATION CONCERNING THE APPROVAL GRANTED OF A
REPLACEMENT BRAKE LINING ASSEMBLY OR REPLACEMENT DRUM
LINING PURSUANT TO ECE REGULATION NO: 90.01

Approval No: 90R-01244/4820 ext 3

Reason for Extension: To Cover: 1.) Correction to manufacturer's documents.

1. Applicant's name and address:

Thos. Winnard & Sons Limited
Sandback Way
Hellaby Industrial Estate
Hellaby
Rotherham
S66 8QL
United Kingdom.

2. Manufacturer's name and address:

3. Make and type of brake lining assembly: WP1126

4. Make and type of brake lining: CJ7


5. Vehicles/axles/brakes for which the brake lining assembly type qualifies as original brake lining assembly: Not Applicable

6. Vehicles/axles/brakes for which the brake lining assembly type qualifies as replacement brake lining assembly: See Manufacturer's Information Documents

Job Number VSJ194052

An executive agency of the Department for Transport



7. Submitted for approval on: 12 December 2007
8. Technical Service responsible for approval tests: Vehicle Certification Agency
- 8.1 Date of test report: As before and 11 September 2008
- 8.2 Number of test report: See previous level for report number
9. Approval: GRANTED
10. Place: BRISTOL
11. Date: 12 SEPTEMBER 2008
12. Signature: 

A. W. STENNING
Head of Technical and Quality Group
13. Annexed to this communication is a list of documents in the approval file deposited at the administrative services having delivered the approval and which can be obtained upon request.

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Thos. Winnard & Sons Ltd,
Sandback way, Hellaby Ind. Est.,
HELLABY
ROTHERHAM
S66 8QL

EXTENSION

Dear Claire,

Please find enclosed the necessary documentation for you to submit applications for extensions to the following approvals for various brake lining assemblies WP1126 in CJ7 pursuant to ECE Regulation No. 90/1. This application is on behalf of Thos. Winnard & Sons Ltd. and cross-references to our WP CJ7 application details. We would like the application made to the VCA; I have addressed the formal letter of application accordingly.

The documents contained are: -

1. Formal letter of application
2. Vehicle fitment details
3. Manufacturers declarations
4. Lab test results :-
 - Friction test results
 - Shear test results
 - Compressibility test results
5. Vehicle fitment details
6. Disc pad assembly drawings
7. General disc pad marking drawing

**Please note: Existing approval number E11 90R-01244/4820
This approval is based on VSF073326 testing plus additional OE Materials
testing on VSF073325, and 616 bench test results.**

Yours sincerely,



Susan Owens
Q.B.T.



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For vehicles / axles / brakes for which the lining assembly qualifies as replacement brake lining assembly, see following application list.

Winnard Assembly Number	Equivalent to	
WP1126 CJ7	Equivalent to	
	Equivalent to	
	Equivalent to	

Yours faithfully



Susan Owens
Q.B.T.



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Manufacturer's Declaration

for granting of Approval for replacement brake lining according to ECE Regulation No. 90/1.

We, the company

declare herewith that

Replacement pad assemblies WP1126 CJ7

are produced in our factory

We certify that no application has been made regarding this permission/approval by us or by companies appointed by us in countries which as contract parties would also be entitled to grant permission/approval.

We are aware of the following: -

A type marking of vehicles/vehicle components of the above mentioned type with the officially assigned approval mark can only be granted if the products have been manufactured in the above mentioned factory or at one of our listed and approved manufacturing sites, and if they comply with the official approval documents.

Companies manufacturing products for our company or under license may not use the officially assigned approval mark for vehicles/vehicle components produced at their factories unless they are listed as an approved manufacturing site, and fully comply with our quality procedures.

A marking of vehicles/vehicle components of the above mentioned type with different factory or trade marks but the same approval mark is only permissible if written consent has been obtained from the Vehicle Certification Agency.



Susan Owens
Q.B.T.



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Friction test results

Conducted in accordance with Annex 8, of ECE Regulation No. 90 Rev1 including supplement 2 to the 01 series of amendments. (TRANS/SC1/WP29/GRRF/R90 Rev 1).

Manufacturer:			
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Sample

Type of assembly:	29122 616 (Previously agreed single test reference)
Drawing No:	29122 Issue 1
Type of test:	Constant torque (para. 2.2.2.2)
$\mu_{op} : 1$	0.382
$\mu_{op} : 2$	0.327
μ_{min} :	0.21
μ_{max} :	0.519

Test dates: 04/2006



Susan Owens
Q.B.T.



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Bench tests

Manufacturer:			
Type of brake lining assy:	29122 616	Page	1/2

1. Shear strength test¹
(5.3.2.1 of ECE Regulation No. 90 Rev 1)

- Sample

Type of assembly: 29122 616

Shear area [cm²]: 111.17

- Shear strength measured

Mean value [N/cm²]: 841.0

Required [N/cm²]: 250

Test date: 04/2006

1) Test procedure according to ISO Standard 6312 (2001)



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Manufacturer:			
Type of brake lining assy:	616 MATERIAL SAMPLE SQUARE SECTION	Page	2/2

2. Compressibility test²
(5.3.2.2 of ECE Regulation No. 90 Rev 1)

- Sample

Type: III
 Type of assembly: AS ABOVE
 Drawing No: N/A
 Thickness, d₀ (nominal value) [MM]: 21.7
 Pad area [cm²]: 6.45
 Ram dia (corresponding to caliper piston dia) [MM]:

- Compressibility at specific surface pressure of 8000 kPa

Measured at ambient temperature

Mean value: $\frac{d_4 - d'_3}{d_0} = 0.47 \%$

Required: ≤ 2%

Measured at 400°C

Mean value: $\frac{d_4 - d'_3}{d_0} = .80 \%$

Required: ≤ 5%

Test dates: 04/2006

2) Test procedure according to ISO Standard 6310 (2001)



Susan Owens
Q.B.T.

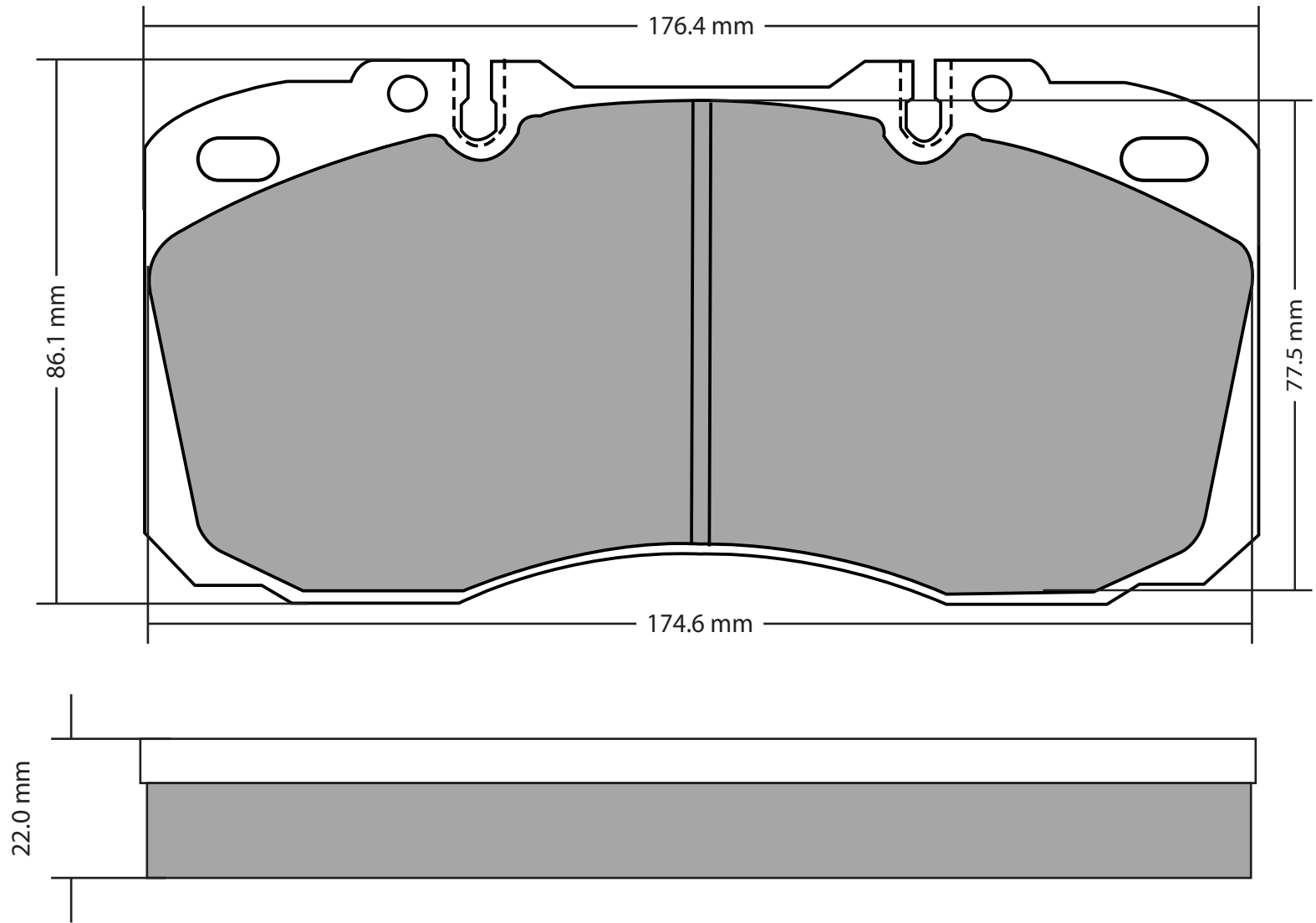


WINNARD	MAKE	MODEL 1	MODEL 2	MODEL 3	MODEL 4	MODEL 5	F/R	D	A	T	E	OE Caliper Manufacturer	S/V Dr	Disc / Drum / Dia	Max Th / Shoe Width
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	CargoPlus	7.5T				F	02	02			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	CargoPlus	7.5T				R	02	02			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	60 E Series				F	01	96			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	60 E Series				R	01	96			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	65 E Series				F	01	96			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	65 E Series				R	01	96			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	75 E Series				F	01	96			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	75 E Series				R	01	96			Brembo	V	304	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	80 E Series				F	01	96			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	80 E Series				R	01	91			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	85 E Series				F	01	96			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	85 E Series				R	01	91			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	95 E Series	4x4			F	01	96			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	95 E Series	4x4			R	01	91			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	100 E Series				F	01	96			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	EuroCargo	100 E Series				R	01	91			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	PSV's Irisbus	Maxim 80 E				F	01	98			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	PSV's Irisbus	Maxim 80 E				R	01	98			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	PSV's Irisbus	Maxim 100 E				F	01	98			Brembo	V	322	30
WP1126	IVECO (Includes Iveco Fiat, Iveco Ford, Magirus)	PSV's Irisbus	Maxim 100 E				R	01	98			Brembo	V	322	30



CALIPER ACTUATION	BRAKING				VEHICLE /			ENERGY FACTOR .5 MV 2	MAXIMUM ROLLING RADIUS	INERTIA UNLADEN	VEHICLE		AXLE INERTIA LADEN
	SPLIT F/R, DIAG or H / I	CALIPER PISTON DIA	MAX SPEED Km/h	80% V MAX Km/h	AXLE WEIGHT UN-LADEN	VEHICLE WEIGHT LADEN	AXLE WEIGHT LADEN				INERTIA LADEN	INERTIA LADEN	
Air / Hyd	F/R	2x 60	90	72		7500		19440000	0.372	0	399.5838	0	
Air / Hyd	F/R	2x 60	90	72		7500		19440000	0.372	0	166.0608	0	
Air / Hyd	F/R	2x 60	90	72		6000		15552000	0.372	0	319.66704	0	
Air / Hyd	F/R	2x 60	90	72		6000		15552000	0.372	0	132.84864	0	
Air / Hyd	F/R	2x 60	90	72		6700		17366400	0.372	0	356.961528	0	
Air / Hyd	F/R	2x 60	90	72		6700		17366400	0.372	0	148.347648	0	
Air / Hyd	F/R	2x 60	90	72		7500		19440000	0.372	0	399.5838	0	
Air / Hyd	F/R	2x 60	90	72		7500		19440000	0.372	0	166.0608	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	399.5838	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	166.0608	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	399.5838	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	166.0608	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	399.5838	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	166.0608	0	
Air / Hyd	F/R	2x 68	90	72		10000	6500	25920000	0.389	0	582.58585	270.4862875	
Air / Hyd	F/R	2x 68	90	72		10000	6500	25920000	0.389	0	242.1136	270.4862875	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	399.5838	0	
Air / Hyd	F/R	2x 68	90	72		7500		19440000	0.372	0	166.0608	0	
Air / Hyd	F/R	2x 68	90	72		10000		25920000	0.372	0	532.7784	0	
Air / Hyd	F/R	2x 68	90	72		10000		25920000	0.372	0	221.4144	0	

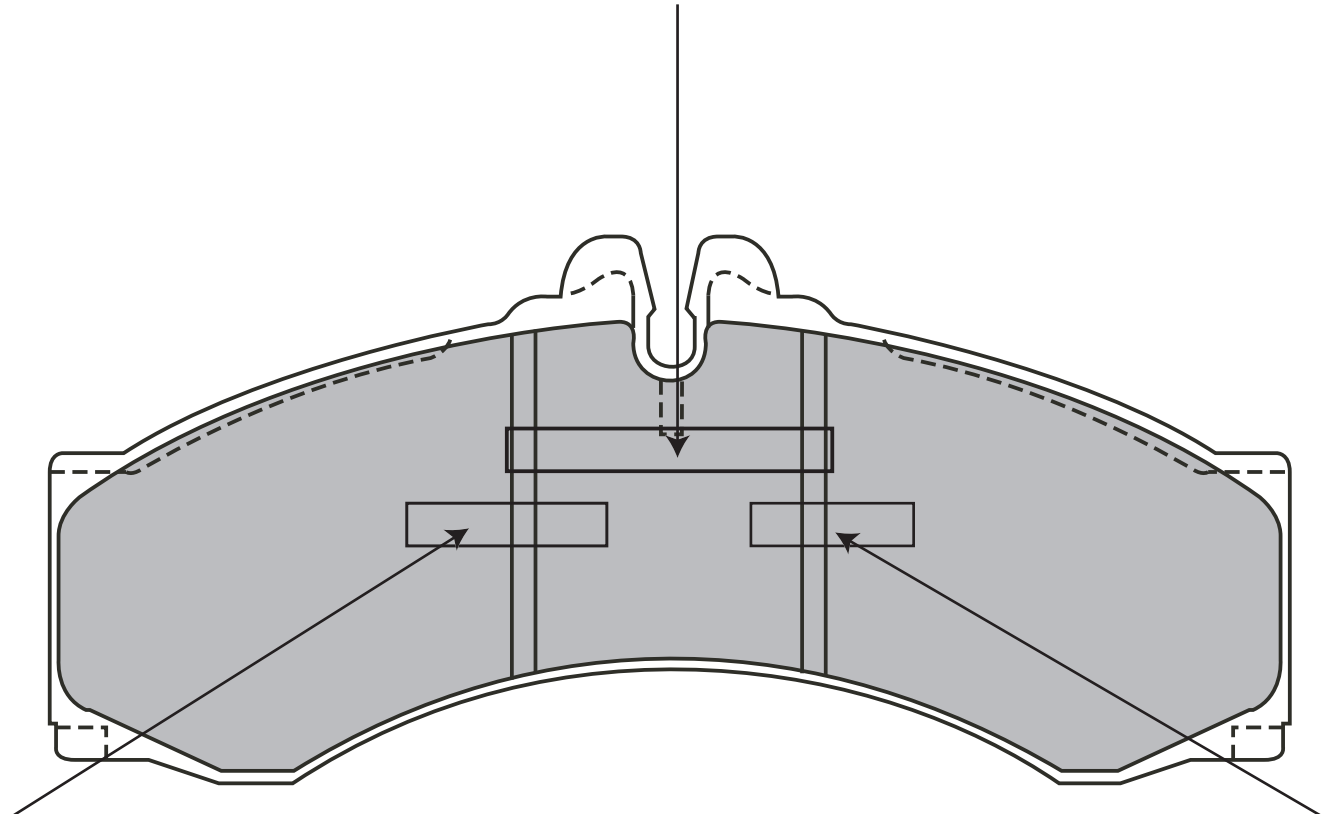




WINNARD

PAD AREA		Description	Issue No.	Part No.	 WP1126 12-SEPT-08 Not To Scale
11117.1 mm	Date	Disc Pad Assembly	1		
		General Tolerance	± 0.25mm		

Approval Mark



Make and Type
of Brake Pad

Batch Code (Date of Manufacture)
Week/Year

WINNARD

PAD AREA	Description		Issue No.	Part No.	12-SEPT-08 Not To Scale
	Disc Pad Assembly		1		
Date	General Tolerance		± 0.25mm		Ultimate Approval Authority

