



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽⁴⁾/APPROVAL EXTENDED
⁽⁴⁾/APPROVAL REFUSED ⁽⁴⁾/APPROVAL WITHDRAWN ⁽⁴⁾/PRODUCTION DEFINITELY
DISCONTINUED ⁽⁴⁾ OF A TYPE OF TYRE FOR MOTOR VEHICLES, PURSUANT TO REGULATION
NO 30.02



Approval No: 30R-0214837

Extension No: Not Applicable

1. Manufacturer's name address:
Cooper Tire & Rubber Company Europe Limited.
Melksham,
Wiltshire,
SN12 8AA
2. Tyre type designation ⁽²⁾
 - 2.1. Brand-name(s)/trademark(s): Cooper
 - 2.2. Trade description(s)/Commercial name(s): Cooper Discoverer Winter
3. If applicable, name and address of manufacturer's representative: Not Applicable
4. Summarised description:
 - 4.1. Tyre size designation: 215/65R16
 - 4.2. Category of use: ~~normal/snow/special use/temporary use~~ ⁽¹⁾
 - 4.3. Structure: ~~diagonal/bias-belted/radial/run flat tyre~~ ⁽¹⁾
 - 4.4. Speed category symbol: H
 - 4.5. Load-capacity index: 102 XL

5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity: Vehicle Certification Agency
6. Date of report issued by that service: 07 July 2017, 01 August 2017, 01 August 2017, 01 June 2017 and 01 August 2017
7. Number of report issued by that service: VSS372289, VSS372290, VSS372307, VSS37311 and VSS372318
8. Reason(s) of extension (if applicable): Not Applicable
9. Any remarks: Approval to Supplement 18
10. Place: BRISTOL
11. Date: 14 AUGUST 2017

12. Signature: 
D LAWLOR
Chief Technical and Statutory Operations Officer

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.

- (1) Strike out what does not apply
- (2) A list of Brand name(s)/trademark(s) or Trade description(s)/ Commercial name(s) may be annexed to this communication.



COOPER TIRE & RUBBER COMPANY EUROPE LIMITED
 Bath Road • Melksham, Wiltshire, SN12 8AA • +44 (0)1225 703101

VCA Job: VSS372289

E11 0214837

Regulation 30, Revision 3, Section 4. Application For Tyre Approval		
Reason for Extension:	-	Extension #: 00
4.1	Manufacturer	Cooper Tire & Rubber Company Europe Limited. Melksham, Wiltshire
4.1.1	Tyre Size Designation	215/65R16
4.1.2	Commercial Description(s)	Cooper Discoverer Winter
4.1.3	Category of Use	Snow (3PMS)
4.1.4	Construction	Radial
4.1.5	Speed Category	H
4.1.6	Load-Capacity	102 XL
4.1.7	Tubed or Tubeless	Tubeless
4.1.8	Normal or Reinforced	Reinforced
4.1.9	Ply rating (if applicable)	N/A
4.1.10	Overall Section Width	221mm
	Overall Diameter	686mm
4.1.11	Rim(s) on which the tyre can be mounted	6J 6½J 7J 7½J
4.1.12	Measuring Rim	6.5J
	Test Rim	6.5J
4.1.13	Test Pressure (bar)	3.2
	Measurement Pressure (bar)	2.3
4.1.14	Factor X	0.7
4.1.15	Maximum Load & Speed for Tyres Containing a Z within Size Designation	N/A
4.1.16	Runflat bead retention rim contour	N/A
Prepared by:		Nick Meadows Certification Engineer





COOPERTIRES

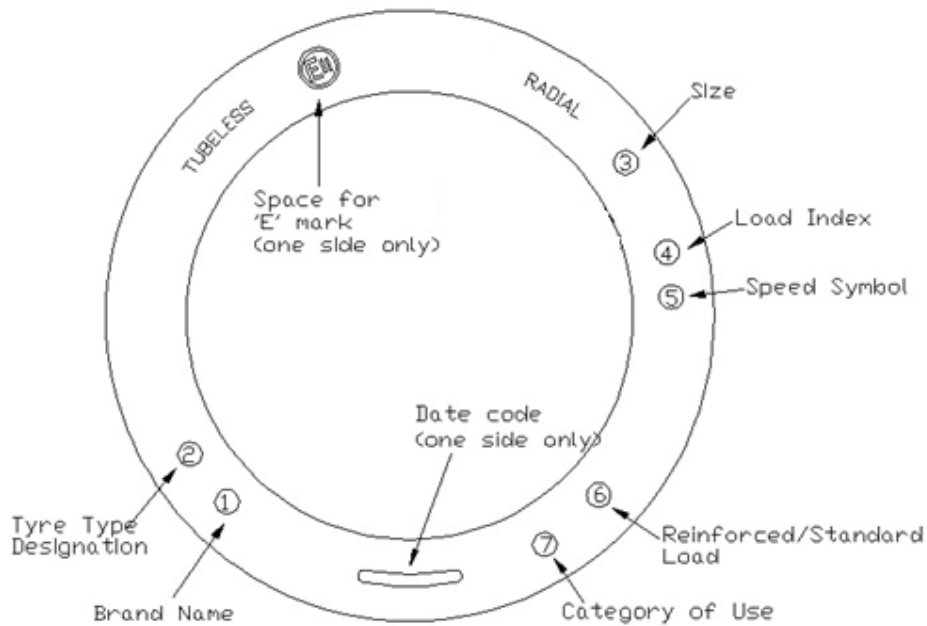
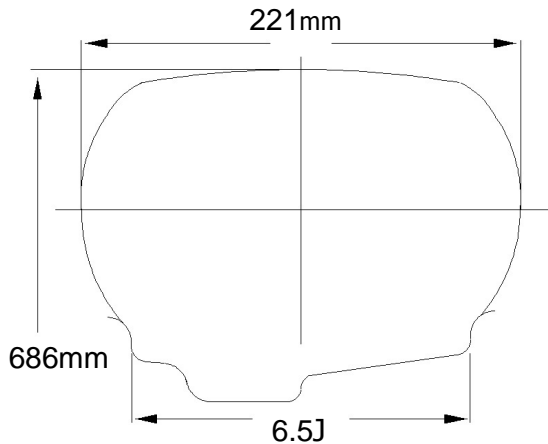
COOPER TIRE & RUBBER COMPANY EUROPE LIMITED
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VSS372289

215/65R16 102H XL

E11 0214837

Cooper Discoverer Winter



1.	Brand Name Cooper
2.	Tyre Type Designation Discoverer Winter
3.	Tyre Size 215/65R16
4.	Tyre Load Index 102

5.	Tyre Speed Symbol H
6.	Standard or Extra Load Extra Load
7.	Category of Use Snow (3PMS)





ECE REGULATION No.30

Job Number: VSS372289
E11 Number: E11 0214837
Extension: 00

Page: 1 of 4
Rev 1.8

VCA REFERENCES

Test Report Number
Number of Pages
Number of Annexes

TEST DETAILS

Subject: Passenger Car
ECE Regulation: R30 / Addendum 29 / Revision 3
Place of Test: Cooper Tire & Rubber Company Europe Ltd
Date of Test: 04/07/2017
VCA Representative:
Manufacturer's Representative: Nicholas Meadows
Reason for Test: E11 Approval

Test Notes:

MANUFACTURER DETAILS

Manufacturer's Name: Cooper Tire & Rubber Company Europe Ltd.
Manufacturer's Address: Bath Road, Melksham, Wiltshire SN12 8AA
Model Type & description: **Cooper Discoverer Winter**
Tyre Size: 215 / 65 R 16 102 H XL
Rim Width (Inches): 6.5 J Construction: Radial
Category of Use: Snow (3PMS) Protective Ribs or Bands: No

CONCLUSION

The above tyre was tested in accordance with ECE R30 and was found to comply in all respects

Signature:

Name: Nicholas Meadows
Position: Certification Engineer
Date: 07/07/2017

LIST OF ANNEXES

ANNEX	No of PAGES	SUBJECT
1		
2		
3		
4		



Regulation	Parameter	Value
6	Requirements	
6.1	Dimensions of tyres	
6.1.1	Section Width of Tyre	
6.1.1.1	$S = S_1 + K (A - A_1)$ where: $S =$ "Section Width" $S_1 =$ "Nominal Section Width" = 215.0mm $A =$ Width of the Measuring Rim = 165.1mm $A_1 =$ Width of the Theoretical Rim = $S_1 \times$ Given Ratio = (215.0 x 0.7) = 150.5mm $K =$ = 0.4 $\therefore S_1 + K (A - A_1) =$ (215.0 + 0.4 x (165.1 - 150.5)) = 220.8mm	
6.1.1.2	Where available, section width from Annex 5	= N/A
6.1.4	Measured Tyre Section-Width	
6.1.4.1	The overall width of a tyre may be less than the section width determined pursuant to paragraph 6.1.1 above.	= 225.0mm
6.1.4.2	The overall width may exceed the value determined in 6.1.1 by;	
6.1.4.2.1	(4% for radial & runflat tyres)	
6.1.4.2.2	(6% for diagonal (bias-ply) tyres)	
6.1.4.2.3	(+8mm in addition to the above for tyres with protective ribs or bands)	= 230.0mm
	Is the overall width within the test limit?	Yes
6.1.2	Outer Diameter of Tyre	
6.1.2.1	$D = d + 2H$ Where; $D =$ Outer diameter expressed in millimetres $d =$ Nominal rim diameter = 406.0mm $H =$ Nominal section height, equal to; $H = S_1 \times 0.01 Ra$ $H = \frac{S_1}{215} \times \frac{0.01}{(0.01 \times 65)} \times Ra$ = 139.8mm $S_1 =$ Nominal section width $Ra =$ The nominal aspect ratio $\therefore D = d + 2H =$ 406 + (2 x 139.8) = 685.5mm	
6.1.5	Tyre Outer-Diameter Specifications	
	The outer-diameter of a tyre must not be outside the values Dmin and Dmax, obtained from the following formulae: $D_{min} = d + (2H \times a)$ $D_{max} = d + (2H \times b)$ Where; $D =$ The outer diameter expressed in mm $d =$ The rim diameter expressed in mm $H =$ Nominal section height in mm, equal to: $H = 0.5 \times (D - d)$ $H = 0.5 \times (685.5 - 406.0)$ = 139.8mm	
6.1.5.3	Coefficients "a" and "b" are respectively:	
6.1.5.3.1	a = 0.97	
6.1.5.3.2	b = 1.04 Radial & Run-Flat, 1.08 Diagonal and Bias-ply	
6.1.5.4	Snow tyres may exceed Dmax by 1%	
	$Outer\ diameter\ D_{min}\ (mm) = 406.0 + ((2 \times 139.8) \times 0.97)$ = 677.1mm $D_{max}\ (mm) = 406.0 + ((2 \times 139.8) \times 1.04) \times 1.01$ = 714.9mm Measured Outer Diameter = 688.0mm Does Measured Outer Diameter fall within Dmin & Dmax? (Dmax includes +1% for Snow Tyre) = Pass (Snow)	

Regulation	Parameter	Value
6.2	Load/Speed Performance Test	
	Make of Load/Speed Performance Machine: INMESS	Machine Drum Diameter (2m or 1.7m): 1.7m
	Speed calibration:	Date: 28/02/2017
	Inflation pressure gauge calibration dates: TTDPG5 & TTDPG12	Date: 24/05/2017
	Load calibration:	Date: 28/02/2017
	Test 1 - Tyre 1	
Annex 7		
A.7.1.1	Test Rim	= 6.5
A.7.1.2	Tyre inflation pressure:	= 3.2 bar
	Tyre maximum load rating	Load index = 102 = 850 kg
A.7.2.2	Test load (% of the maximum load rating at the designated speed rating)	80.00% = 680 kg
A.7.2.4	Test temperature (Limit 20 to 30°C)	= 25°C
	Tyre maximum speed rating:	H = 210 km/h
A.7.2.5	Time Taken to reach initial test speed	= 10 minutes
A.7.2.5.1	Initial test speed - Maximum Speed rating less 40 km/h for 10 minutes	= 170 km/h
A.7.2.5.2	Second test speed - Maximum Speed rating less 30 km/h for 10 minutes	= 180 km/h
	Third test speed - Maximum Speed rating less 20 km/h for 10 minutes	= 190 km/h
	Final test speed - Maximum Speed rating less 10 km/h for 20 minutes	= 200 km/h
6.2.2	Does the tyre exhibit:	
	i. Tread separation	= Pass
	ii. Ply separation	= Pass
	iii. Cord separation	= Pass
	iv. Chunking	= Pass
	v. Broken cords	= Pass
6.2.3	Outer diameter after test	= 691.5mm
	Tyre must not exceed pre-test diameter by greater than ±3.5%	= Pass
	Test 2 - Tyre 2	
	Required if 'ZR' within size designation for tyres rated over 300km/h	Second test required? = No

Regulation	Parameter	Value
Annex 7		
6.2.1.2	Run-Flat Tyre Test	Run-Flat test required? = No
6.3	TREAD WEAR INDICATORS	
6.3.1 & 2	Number of transverse rows of tread-wear indicators	= 6
6.3.3	Tread-wear indicators at 1.6mm (+0.6/-0.0)	= Pass
3	TYRE MARKING REQUIREMENTS	
3.1.1	Trade name or mark	= Yes
3.1.2	Tyre size designation	= Yes
3.1.3	Structure	= Yes
3.1.4	Speed category	= Yes
3.1.5	M & S	= Yes
3.1.6	Extra Tread and/or Professional Off Road	= No
3.1.7	Load capacity index	= Yes
3.1.8	Tubeless	= Yes
3.1.9	Reinforced or Extra Load	= Yes
3.1.10	Date of manufacture	= Yes
3.1.11	Approval Mark	= Yes
3.1.12	Temporary use markings	= No
3.1.13	Run-Flat markings	= No
3.2	Approval mark	= Yes