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AMENDMENT 1
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Tyres and rims (metric series) for agricultural tractors and machines —

Part 2: Service description and load ratings

AMENDMENT 1

Pneumatiques et jantes (série millimétrique) pour tracteurs et machines agricoles —

Partie 2: Description d'utilisation et capacités de charge

AMENDEMENT 1

Reference number
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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 7867-2:2005 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 5, *Agricultural tyres and rims*.

Tyres and rims (metric series) for agricultural tractors and machines —

Part 2:
Service description and load ratings

AMENDMENT 1

Page 1, Clause 1

Add “and their trailers” at the end of the first paragraph.

Page 3, Subclause 5.1

Add “and Annex B” at the end of the last sentence.

Page 3, Subclause 5.2

Add “tractor-tyre” before “applications” in the first paragraph.

Replace the second paragraph with the following:

“For tractor tyres, the load/speed relationship is shown in Table 2. For implement tyres, the load/speed relationship is shown in Table 3.”

Replace Table 2 with the following:

Table 2 — Load/speed relationship

Speed symbol	Service speed[a]	Maximum tyre load (%) at service speed			
		Driven wheel tyre			
	km/h	A2	A8	B	D
A2	**10**	**100**	150	150	150
	15	94	134	134	134
	20	89	123	123	123
	25	84	111	111	118,5
	30	80	107[b]	107[b]	115[b]
	35	76	103	103	112
A8	**40**	73	**100**	100	109,5
	45		96	100	107
B	**50**		91	**100**	105
	55				103
	60				101,5
D	**65**				**100**
	70				91

[a] Reference speed is given in bold characters.

[b] This applies for all field applications with high and sustained torque.

Page 4, Subclause 5.3

Replace the whole of Subclause 5.3 with the following new subclause, including a new Table 3.

5.3 Tyre application on combine harvesters

5.3.1 General

For tyre load and inflation pressure recommendations for combine harvesters in transport service, the tyre manufacturer shall be consulted.

5.3.2 Tractor-drive wheel tyres (A8 speed symbol only)

On combine harvesters in cyclic loading application, except hillside combines, a load of up to 170 % of the basic tyre loads is permitted for speeds up to 10 km/h with an inflation pressure increase of approximately 30 % (consult the tyre manufacturer). This load increase shall include all possible field and user modifications that increase the vehicle mass and shall apply only to load increases which occur during the harvesting process.

For hillside operations over 11° (22 %) slope, only the basic tyre loads are permitted.

The rim and wheel manufacturer shall be consulted concerning the strength of the wheels.

5.3.3 Implement tyres (D speed symbol)

Table 3 shows the load/speed relationship.

Table 3 — Implement tyres: load/speed relationship

Speed symbol	Service speed[a] km/h	Maximum tyre load (%) at service speed
D	10	180
	15	173
	20	165
	25	158
	30	151
	35	144
	40	136
	45	129
	50	121
	55	114
	60	107
	65	**100**
	70	91

[a] Reference speed is given in bold characters.

Page 4, Clause 6

Replace the whole of Clause 6 with the following new clause, including a new Table 4.

6 Reference inflation pressures

The reference inflation pressures specified in Table 4 are recommended for basic tyre loads of different ranges of tyres (metric series) for agricultural tractors and machines.

Table 4 — Reference inflation pressures

Drive wheel tyres kPa	Implement tyres kPa
100	320
120	360
140[a]	400
160	
200[a]	
240	
280[a]	
320	
360	
400	
440	
NOTE These reference inflation pressures are for basic tyre loads of different ranges of metric agricultural tyres. Operating pressures can be different.	
[a] Values are not recommended for future sizes.	

Page 5, Annex A

Replace the title of Annex A with the following:

"**Basic loads for drive wheel tyres**".

Page 6, Table A.2

Add the following size.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
270/95 R 36	139	2 430	400

Page 6, Table A.3

Add the following sizes.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
270/90 R 46	142	2 650	400
300/90 R 50	149	3 250	400
320/90 R 32	134	2 120	240

Page 7, Table A.4

Add the following sizes.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
270/85 R 50	142	2 650	400
280/85 R 20	112	1 120	160
340/85 R 24	130	1 900	240

Page 8, Table A.5

Add the following size.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
270/80 R 36	134	2 120	400

Page 8, Table A.6

Add the following sizes.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
270/75 R 32	129	1 850	400
540/75 R 28	154	3 750	240
540/75 R 34	157	4 125	240

Page 9, Table A.7

Add the following sizes.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
600/70 R 30	158	4 250	240
620/70 R 28	159	4 375	240
650/70 R 30	157	4 125	160

Page 11, Table A.8

Add the following sizes.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
240/65 R 16	101	825	240
260/65 R 16	106	950	240
280/65 R 16	110	1 060	240
300/65 R 16	114	1 180	240
300/65 R 18	116	1 250	240
340/65 R 20	114	1 180	160
340/65 R 20	124	1 600	240
420/65 R 20	135	2 180	240
440/65 R 20	128	1 800	160
440/65 R 20	138	2 360	240

Page 12, Table A.9

Add the following size.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
900/60 R 32	176	7 100	240

Page 12

Add a new Table A.10 with “55” series tyres and renumber Table A.10 as A.11.

Tyre size designation	Load index LI	Basic tyre load kg	Reference inflation pressure[a] kPa
710/55 R 30	153	3 650	160
750/55 R 26	160	4 500	240
900/55 R 32	173	6 500	240

[a] The inflation pressure is a minimum reference value for the loads given in the table. The tyre manufacturer concerned shall be consulted about the actual pressures to be used in practice. For reference speeds, see Table 2.

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Add the following new Annex B before the Bibliography.