

FIRECRACKERS

FROM

CHINA & INDIA



FIRECRACKERS

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5 WHYS

LEGALITY



01

LOW COST



05

SECURITY



02

04

03

TRACEABILITY



PLUG & PLAY



01 LEGALITY HOMOLOGATION



- **NOT EXISTING AT ALL**

EXAMPLE:

Toyota Avensis wheel 9265:

No homologation at all, insufficient identification but KFZ P/N faked.

gruppen	Anzahl der Zuordnungen mit 6x15-ET47	Verbleibende Anzahl mit Achslast bis 1110 kg	Verwendung (%)	KW-Bereich	Reifen	
			100%	77	195/65R15 205/60R15	A13 111 A13 111
			96%	63-118 63-118	195/65R15 205/60R15	1111 1111
	707	678	100%	63-118 63-118	195/65R15 205/60R15	A13 A33
			38% 45%	55-118 55-118	195/65R15 205/60R15	A13 111 A13 T80 T91 111
	2907 40	1116 18	19% 36,00% / 41,00%	51-80	195/65R15	A13 T91 T95 111
	2132	1081 / 1065	15%	75,77-80	195/65R15	A13 T81 T95 111
	2997 / 2599 2482	370	4% 15%	75-103 75-103	195/65R15 205/60R15	A13 M+S 111 A13 M+S 110
	572 2554	398 370	7% 9%	55-110 55-110	195/65R15 205/60R15	R37 111 111
	178 13	13 0	100%	59-110 59-103	195/65R15 205/60R15	A13 R37 111 A33 111
	2840	205	100%	59-103 59-103	195/65R15 205/60R15	A11 111 A31 111
	316 117	717	100%	59-90 59-90	195/65R15 205/60R15	A13 R37 111 A33 111
			89%	55-110 55-110	195/65R15 205/60R15	A13 R37 111 A33 111

- **WRONG**

EXAMPLE:

Skoda Octavia 1Z wheel:

Because of insufficient wheel load only 1.116 i.s.o. 3.084 applications possible (only 36% of initial applications).



- **INCOMPLETE**

EXAMPLE:

Volkswagen Group wheel 9165: ABE not granted so far.

External wheel disc marking:

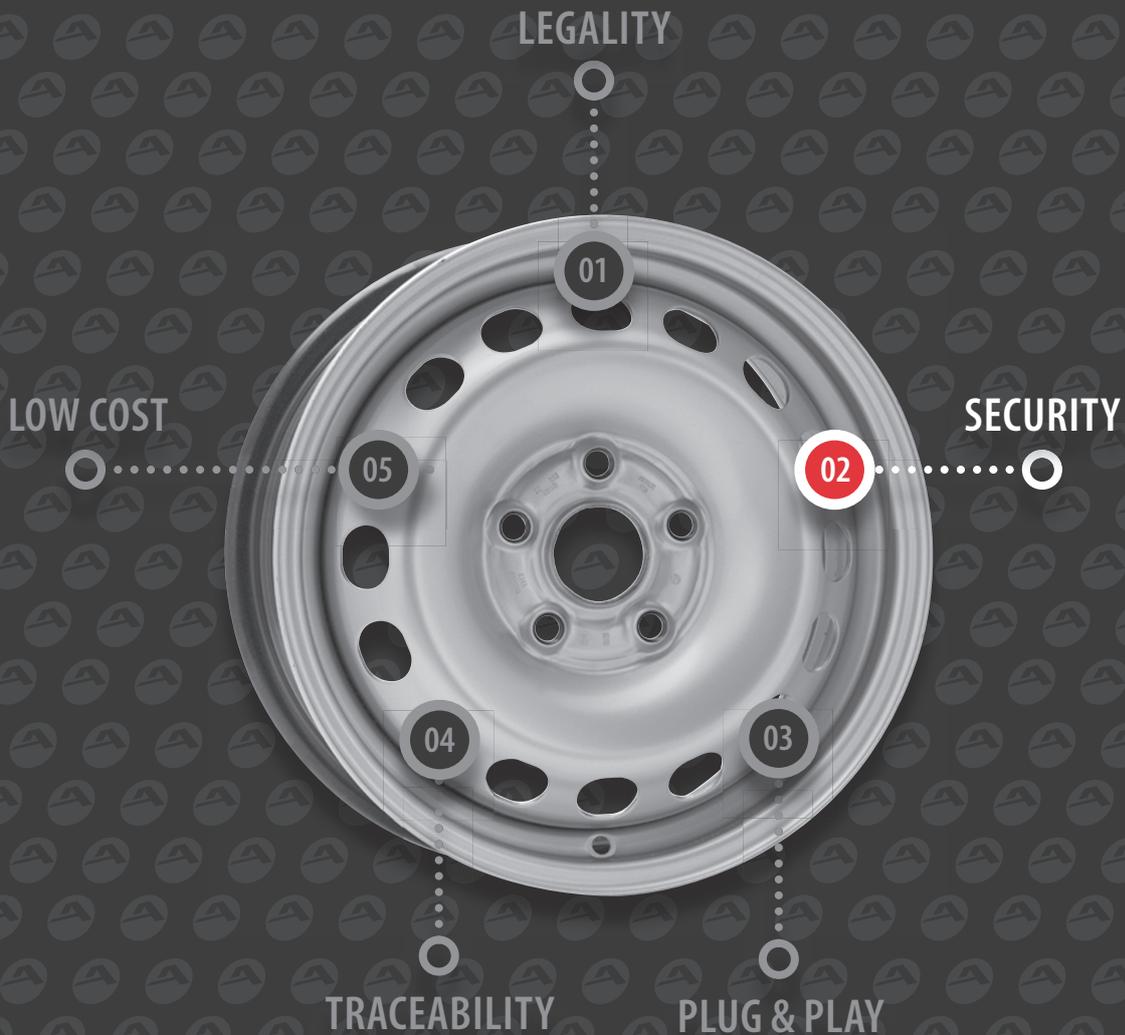
31-11 15x6J KBA48677 ET47

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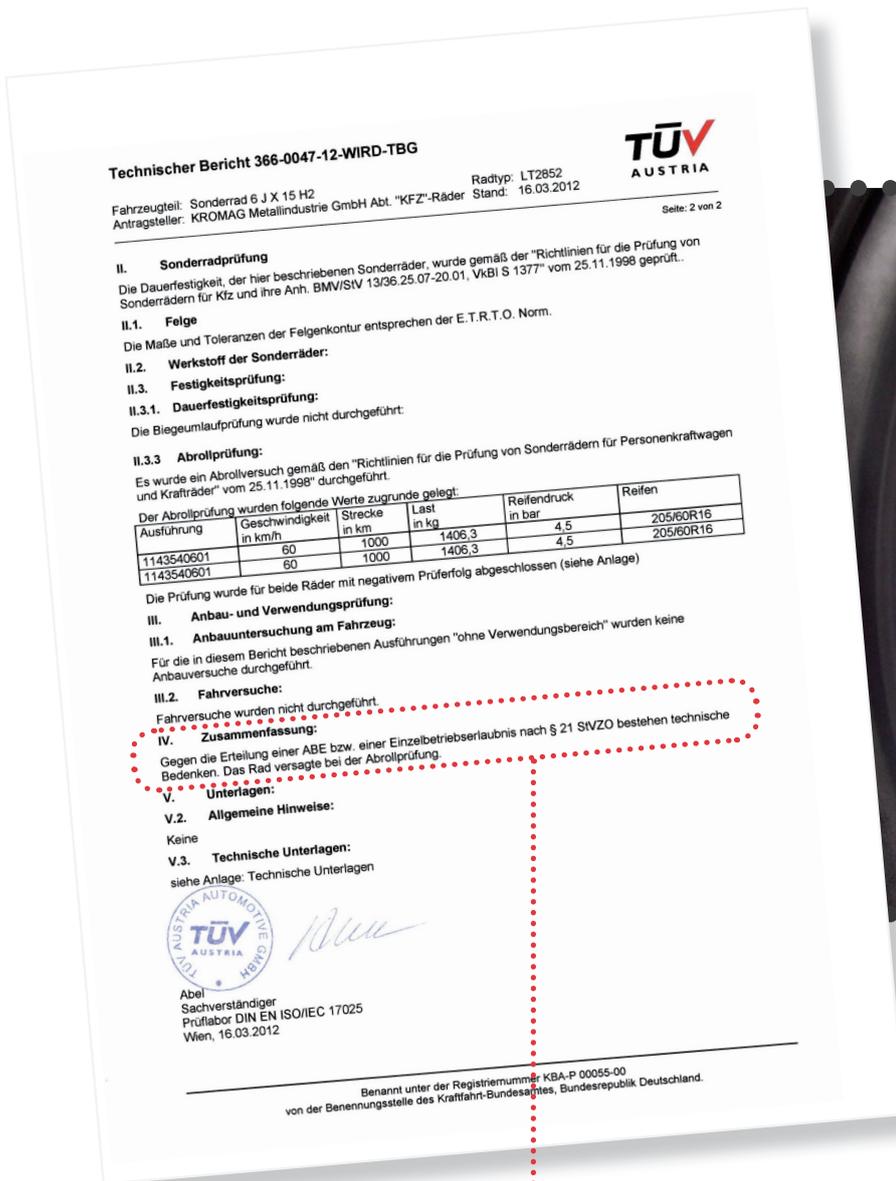
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02 SECURITY

TÜV AUSTRIA REPORT



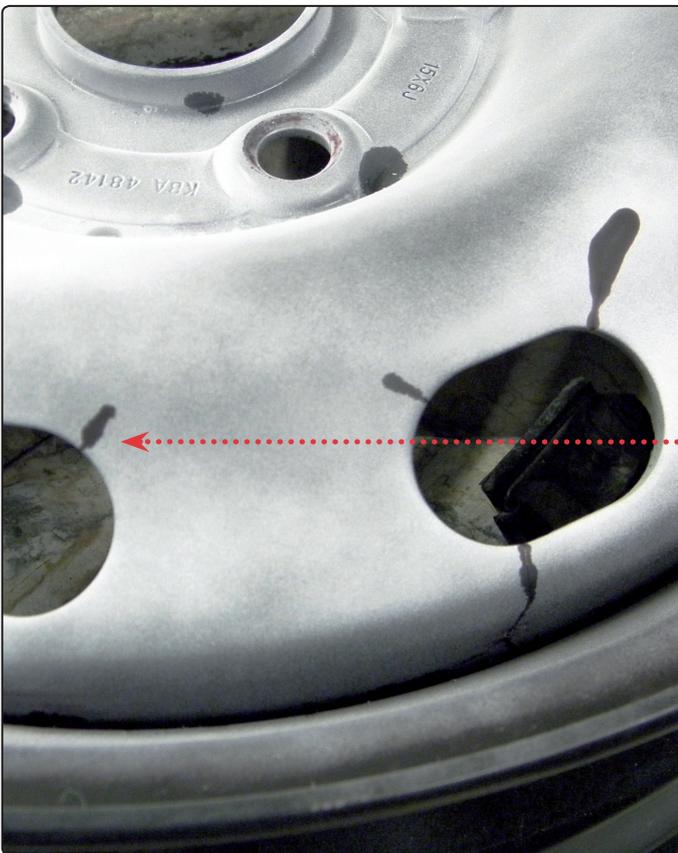
EXCERPT TÜV AUSTRIA REPORT:

IV. SUMMARY:

„There are technical concerns in granting an ABE or an individual type approval according to §21 StVZO. The wheel did not pass the rim rolling test.“

02 SECURITY

WHEEL LOAD INSUFFICIENT



- **WHEEL LOAD INSUFFICIENT**

EXAMPLE:

Volkswagen Group wheel 9165:

- *Early crack on ventilation holes due to 555 i.s.o. 625 kg wheel load*

- **BOLT LOOSENING**

EXAMPLE:

Mazda wheel 9980:

Paintfilm too thick ○



02 SECURITY

OVERHEATING OF BRAKES



- **OVERHEATING OF BRAKES**

EXAMPLE:

Volkswagen Group wheel 9165:

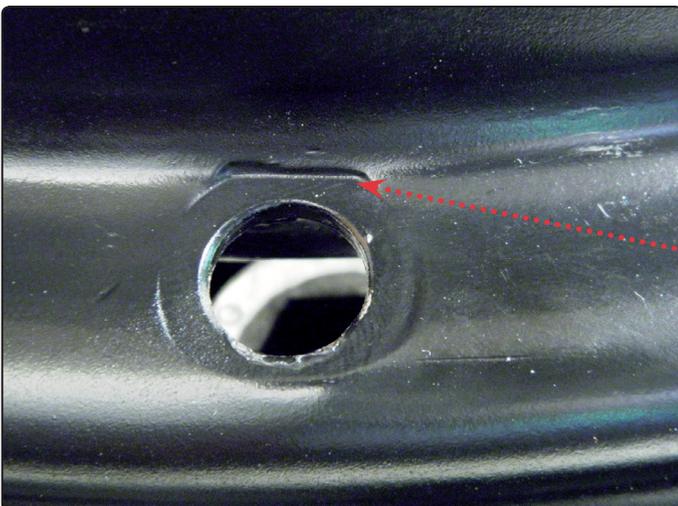
10 instead of 20 vent holes + misalignment between vent holes (wheel) and wheel cover

- **DAMAGE OF TIRE AND AIR VALVE**

EXAMPLE:

Volkswagen Group wheel 9165:

Burrs around the valve hole

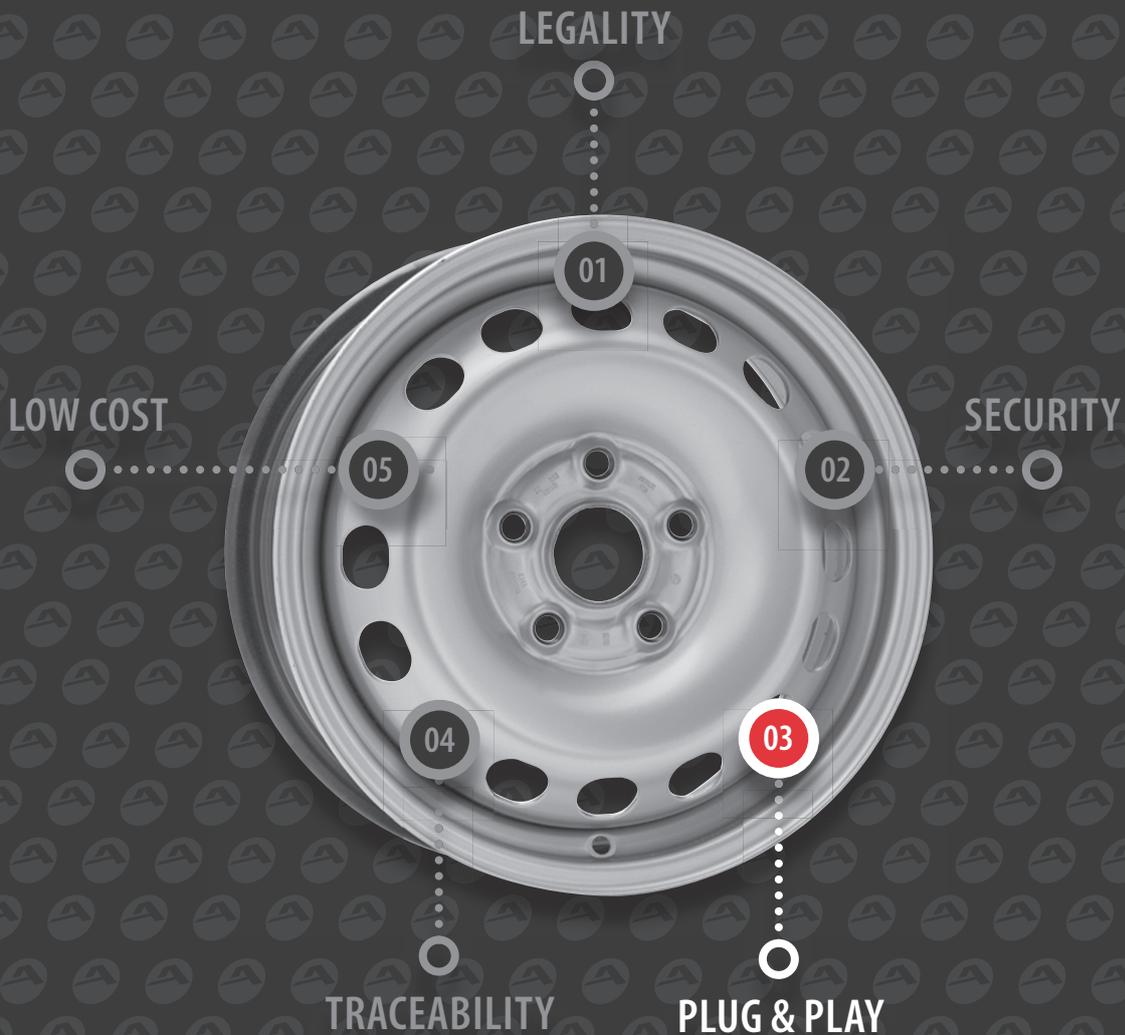


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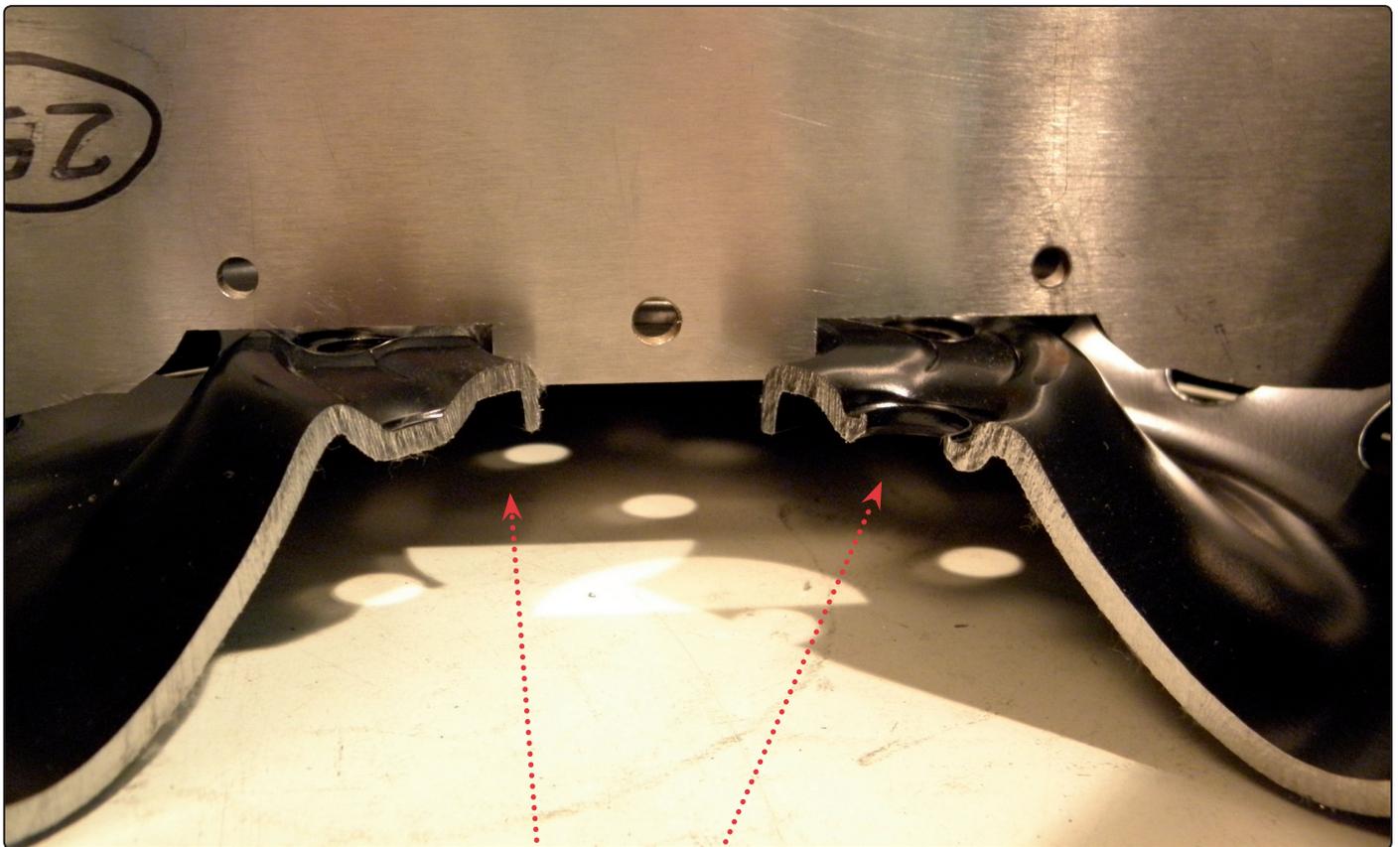
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03 PLUG & PLAY BREAK CONTOUR



• BRAKE CONTOUR

EXAMPLE:

Volkswagen Group wheel 9165:
Wheel is not mountable on some Volkswagen group car models

• RUNOUT VALUES

EXAMPLE:

Volkswagen Group wheel 9165:
All 3 samples far out of specs.

28250	Inner radial runout	Specific gauge	1 / batch	RQC	2	mm	<= 0,6	1,05	2	0,71
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03 PLUG & PLAY WHEEL COVER



- **WHEEL COVER**

EXAMPLE:

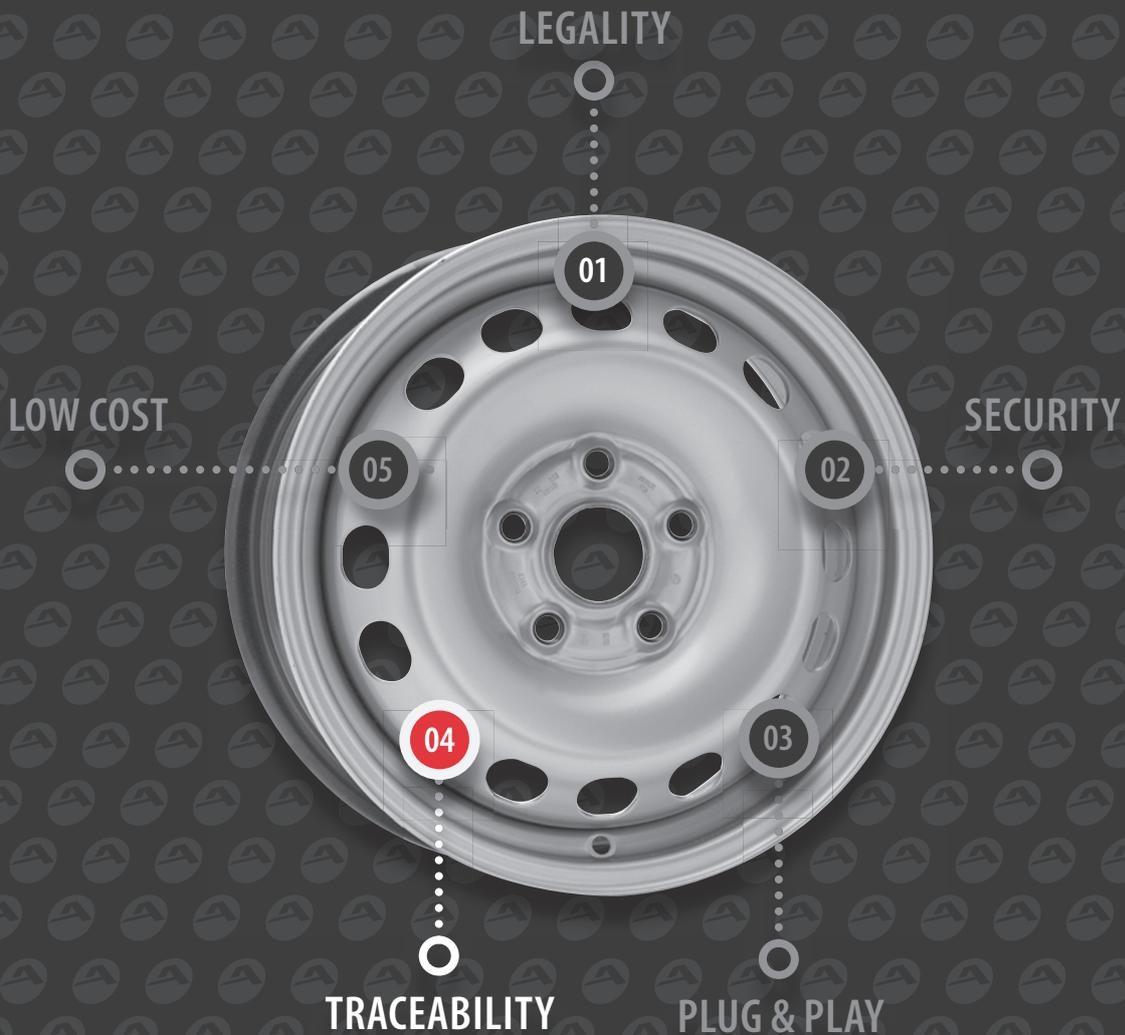
Opel wheel 9045:

Wheel cover is not mountable due to different rim profile and material thickness not according to specifications

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04 TRACEABILITY

MARKINGS ON RIM AND WHEEL DISC

LIABILITY



- **INCOMPLETE**

EXAMPLE:

*Volkswagen wheel 7500: Marking on rim
but none on wheel disc.*

- **NONE**

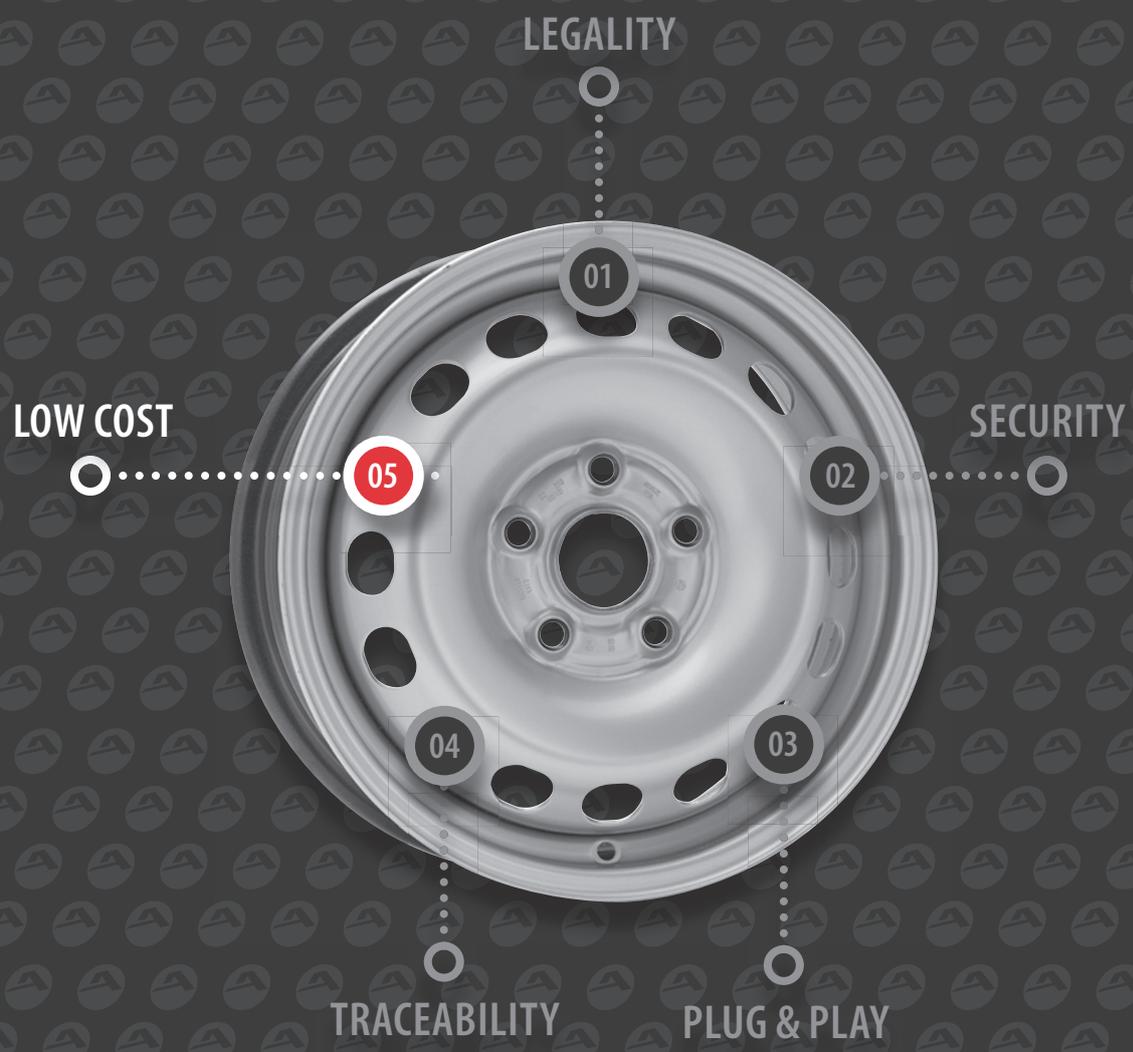
EXAMPLE:

*Example Volkswagen wheel 9915:
No marking on rim and disc.*

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05 LOW COSTS

THIS RESULTS IN

01

LEGALITY

- LEGAL CHARGES (LAWYER, COURT)
- RECALL COSTS

02

SECURITY

- CAR REPAIRS
- RECALL COSTS
- INJURED OR KILLED PERSONS

03

PLUG AND PLAY

- REPLACEMENT COSTS
- ANGRY CUSTOMERS

04

TRACEABILITY

- PRODUCT LIABILITY
- REPLACEMENT COSTS

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YOUR WHEEL PARTNER

