

### China New-Vehicle Quality Decreases as Design-Related Problems Increase, J.D. Power Finds

#### Porsche, GAC Honda and CHANGAN Rank Highest in Respective Segments

**SHANGHAI: 1 Sept. 2022** – Overall new-vehicle quality in China averages 213 problems per 100 vehicles (PP100), which is 2.8 PP100 more than 2021, according to the J.D. Power 2022 China Initial Quality Study<sup>SM</sup> (IQS), released today. Specifically, the quality problems are mostly design-related as the number of problems is 143 PP100, 4.2 PP100 more than 2021.

The study, now in its 23rd year, measures initial vehicle quality by examining problems experienced by new-vehicle owners within the first two to six months of ownership. Overall initial quality is determined by problems cited per 100 vehicles, with a lower number of problems indicating higher quality.

Additionally, infotainment, driving assist and air conditioning are the categories that improved the most, with problems decreasing by 4.1, 2.2 and 1.5 PP100, respectively.

“The improvement of vehicle quality is not overnight,” said **Elvis Yang, general manager of auto product practice, J.D. Power China**. “From the beginning of design to the quality management system, production process optimization and the collaboration of the supply chain, every part needs to be refined to achieve the final quality improvement. With the advent of the intelligence era, the quality problems caused by design is rising. Manufacturers should pay more attention to the R&D and design stage to improve new-vehicle quality.”

Following are additional findings of the 2022 study:

- **Exterior becomes most problematic category:** In 2022, exterior becomes the most problematic category, with an increase of 2.7 PP100, while the proportion of exterior in the overall quality problems increases to 15% from 13% in 2021. Among the exterior category, excessive road noise and headlights not bright enough are the top two problems with the highest increases in complaints.
- **Interior smell is one of the most-often-cited problems:** Unpleasant interior smell (9.4 PP100) is a top-cited problem by owners. This and excessive road noise are two problems that have been listed in the top three quality problems for three consecutive years. Additionally, excessively sensitive brakes and excessively uncomfortable seat increase obviously, reflecting the owner requirements for riding experience and comfort are increasing.
- **Quality among luxury brands improves significantly:** The average number of quality problems among luxury brands is 192 PP100, 24 PP100 less than 2021. The number of infotainment system problems decreases 9 PP100 from 36 PP100 in 2021.

#### **Highest-Ranked Brands and Models**

**Porsche** ranks highest in initial quality among luxury brands with 163 PP100, followed by **Lexus** (166 PP100) and **Land Rover** (179 PP100).

**GAC Honda** is the highest-ranked mass market brand for a third consecutive year with 193 PP100. **Dongfeng Honda** (205 PP100) ranks second and **Buick** (207 PP100) ranks third.

**CHANGAN** is the highest-ranked Chinese domestic brand with 209 PP100. **Chery** (215 PP100) and **GAC Trumpchi** (215 PP100) rank second in a tie.

There are 17 models from 12 brands receiving awards across 16 segments in the 2022 study.

- Audi models that rank highest in their respective segments are **Audi A4L** and **Audi Q3**.
- Buick models that rank highest in their respective segments are **Buick Verano Pro/Pro GS**; **Buick All New GL8**.
- GAC Honda models that rank highest in their respective segments are **Honda Fit** and **Honda Vezel**.
- Mercedes-Benz models that rank highest in their respective segments are **Mercedes-Benz S-Class** and **Mercedes-Benz GLS-Class**.

Other models that rank highest in their respective segments are **Chevrolet Malibu XL**; **Chery Arrizo 5 Plus**; **Ford Explorer**; **Geely Vision X3**; **Lexus ES**; **Lincoln Corsair**; **Lynk & Co 03**; **Porsche Macan**; **Venucia V-online**.

The China Initial Quality Study measures new-vehicle quality by examining problems in two segments: design-related problems and defects/ malfunctions. Specific diagnostic questions include 218 problem symptoms across nine categories: features/ controls/ displays; exterior; interior; infotainment system; seats; driving experience; driving assistance; powertrain; and climate. This is also the second year since J.D. Power launched a new IQS research platform in both the China and U.S. markets, which aims to provide manufacturers with more comprehensive information to facilitate the identification of problems and drive product improvement.

The 2022 study is based on responses from 3,914 vehicle owners who purchased their vehicle between June 2021 and March 2022. The study includes 247 models from 56 different brands and was fielded from December 2021 through May 2022 in 70 major cities across China.

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NOTE: Five charts follow.

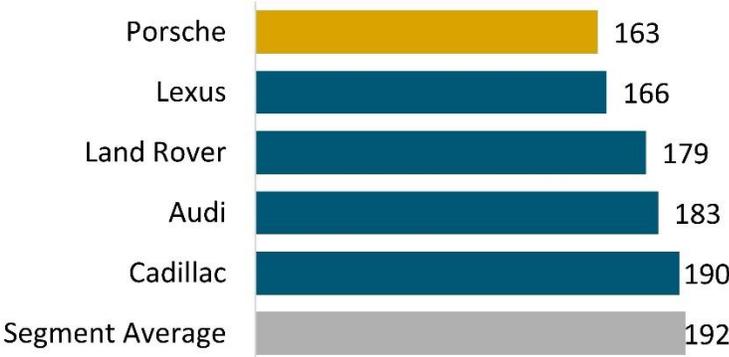
# J.D. Power 2022 China Initial Quality Study<sup>SM</sup> (IQS)

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## Brand Ranking Luxury Brands

Segment Average and Above

Problem per 100 Vehicles (PP100)

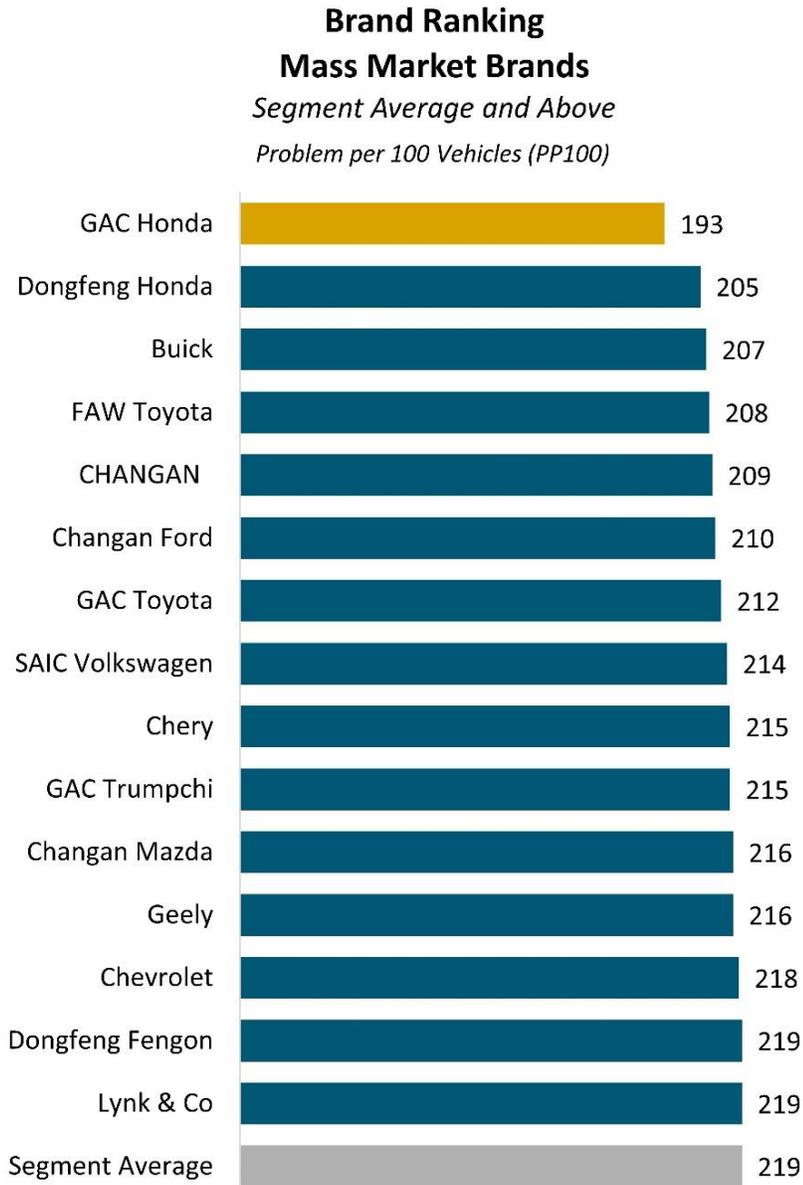


*Notes: Brand/Segment are not ranked eligible unless they meet study criteria by J.D. Power, including insufficient sample.*

*Source: J.D. Power 2022 China Initial Quality Study<sup>SM</sup> (IQS)*

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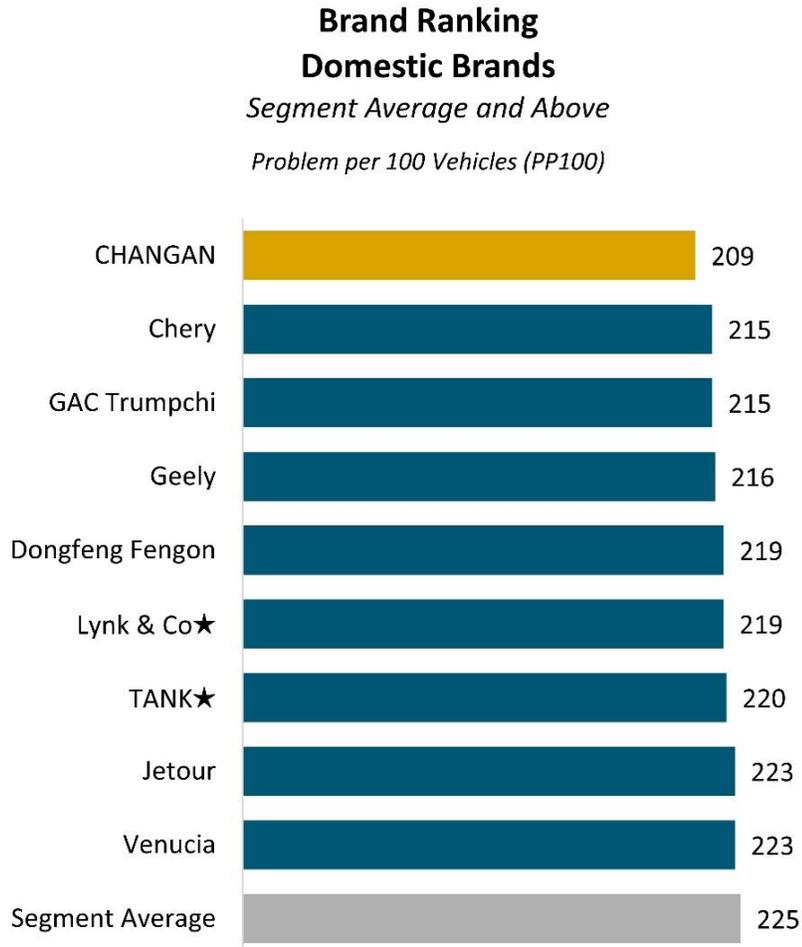
*Notes: In alphabetical order if there are tie scores.*

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Notes: ★ are Chinese premium brands defined as domestic brands whose premium models contribute more than 50% of its total sales; Premium models are defined as those with an average MSRP of more than RMB 150,000.  
In alphabetical order if there are tie scores.

Brand/Segment are not ranked eligible unless they meet study criteria by J.D. Power, including insufficient sample.

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## Top Three Models per Segment Car Segment

### Compact Upper Car\*

**Highest Ranked: Honda Fit**  
Second Ranked: Toyota Vios/Vios FS

### Midsize Upper Car

**Highest Ranked: Chevrolet Malibu XL**  
Second Ranked: Honda Accord  
Third Ranked: Volkswagen Passat

### Midsize Basic Car

**Highest Ranked: Chery Arrizo 5 Plus**  
Second Ranked: CHANGAN Eado Plus  
Third Ranked: Volkswagen Santana

### Compact Luxury Car

**Highest Ranked: Audi A4L**  
Second Ranked: Audi A5  
Third Ranked: BMW 1 Series

### Midsize Car

**Highest Ranked: Lynk & Co 03**  
Second Ranked: Volkswagen Golf  
Third Ranked: GAC Trumpchi Empow

### Midsize Luxury Car\*

**Highest Ranked: Lexus ES**  
Second Ranked: Cadillac CT6

### Midsize Upper Economy Car

**Highest Ranked: Buick Verano Pro/Pro GS**  
Second Ranked: Honda Civic  
Third Ranked: Toyota Allion

### Large Luxury Car\*

**Highest Ranked: Mercedes-Benz S-Class**  
Second Ranked: Porsche Panamera

\* No other model in this segment performs above segment average.

Note: To qualify for an award in the 2022 China Initial Quality Study, models must meet these criteria: 1. Four models with at least 100 samples, or, three models with at least 100 samples and with more than 80% of market share. 2. At least one model must perform better than segment average. In the compact MPV, midsize MPV and luxury MPV segments, these criteria were not met, thus no awards have been issued.

Source: J.D. Power 2022 China Initial Quality Study<sup>SM</sup> (IQS)

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## Top Three Models per Segment SUV and MPV Segments

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### Small SUV

**Highest Ranked: Geely Vision X3**  
Second Ranked: Baojun RS-3  
Third Ranked: Chery Tiggo 3x Plus

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### Compact SUV

**Highest Ranked: Honda Vezel**  
Second Ranked: Dongfeng Fengon 580  
Third Ranked: Changan CS35 Plus

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### Midsize SUV

**Highest Ranked: Venucia V-online**  
Second Ranked: Chery Tiggo 8 Plus  
Third Ranked: Dongfeng Forthing T5 EVO (tie)  
Third Ranked: Toyota RAV4 (tie)

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### Large SUV

**Highest Ranked: Ford Explorer**  
Second Ranked: Toyota Highlander  
Third Ranked: Volkswagen Teramont

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### Compact Luxury SUV

**Highest Ranked: Audi Q3 (tie)**  
**Highest Ranked : Lincoln Corsair (tie)**  
Third Ranked: Lexus NX

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### Midsize Luxury SUV

**Highest Ranked: Porsche Macan**  
Second Ranked: Audi Q5L  
Third Ranked: Cadillac XT6 (tie)  
Third Ranked: Mercedes-Benz GLC-Class (tie)

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### Large Luxury SUV

**Highest Ranked: Mercedes-Benz GLS-Class**  
Second Ranked: Volvo XC90 (Import)  
Third Ranked: Porsche Cayenne

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### Large MPV

**Highest Ranked: Buick All New GL8**  
Second Ranked: Honda Elysion  
Third Ranked: Buick New GL8 (tie)  
Third Ranked: Honda Odyssey (tie)

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