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14V-289  
(4 pages)



May 29, 2014

Ms. Nancy Lewis  
Associate Administrator for Enforcement  
National Highway Traffic Safety Administration  
Attn: Recall Management Division (NVS-215)  
1200 New Jersey Avenue, SE,  
Washington, DC 20590

**VIA FEDERAL EXPRESS AND EMAIL**

RE: Voluntary Safety Recall Campaign  
2014MY Cadenza 19" Non-Chrome Aluminum Alloy Wheel Fracture

Dear Ms. Lewis:

On behalf of Kia Motors Corporation (KMC), Hyundai-Kia America Technical Center, Inc. (HATCI) is submitting the following information in accordance with Part 573 of Title 49 of the Code of Federal Regulations.

HATCI is separate organization from KMC and Kia Motors America ("KMA"). HATCI acts as a designated agent for KMC with the NHTSA. This submission is provided by HATCI in that limited role.

Sincerely,

A handwritten signature in black ink that reads "Robert Babcock".

Robert Babcock  
Director,  
HATCI Certification & Compliance Affairs

Hyundai-Kia America Technical Center Inc.  
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HATCI is an authorized representative of both Hyundai Motor Company and Kia Motors Corporation; which are separate and distinct automotive manufacturers.

**VOLUNTARY 573.6 REPORT**  
**2014MY CADENZA**

**573.6(C) (1)**

Fabricating Manufacturer:  
Agent Designated by Manufacturer:

Kia Motors Corporation  
Robert Babcock  
Hyundai-Kia America Technical Center, Inc.

**573.6(C) (2)**

Identification of Vehicle, Make,  
Model Year and Manufacturing

Certain 2014 model year Cadenza vehicles produced from February 1, 2013 through August 27, 2013 and equipped with 19" non-chrome aluminum alloy wheels.

Recall Population Determination

The recall population was determined based on manufacturing records and field information.

Identification of Component Manufacturer

Dayou Smart Aluminum Co., Ltd.  
133 Wanjusandan 4-ro, Bongdong-eup, Wanju-gun  
Jeollabuk-do, Korea

Daesin Kang, Deputy General Manager of Quality Control Team  
Tel. (011) 82 63 260 1456

**573.6(C) (3)**

Total Number of Vehicles:

Approximately 3,107 vehicles will be subject to this recall.

**573.6(C) (4)**

Percentage of Vehicles Estimated to  
Actually Contain the Defect:

The defect potentially exists in any vehicle identified in 573.6(C)(2) above.

**573.6(C) (5)**

Description of Defect:

Certain 2014 model year Cadenza vehicles equipped with 19" non-chrome aluminum alloy wheels may experience fracture upon excessive wheel impact, such as against a sufficiently large, deep pothole. Cold weather may exacerbate the likelihood of fracture. Such a fracture could cause the circular rim to separate, disabling the wheel and potentially causing an accident.

**573.6(C) (6)**

Basis for Defect Determination:

See attached chronology.

**573.6(C) (8)(i)**

Program to Remedy Defect:

All owners of vehicles identified in (C)(3) will be notified by first class mail with instructions to bring their vehicles to a Kia dealer to have their wheels replaced with new wheels. Kia will reimburse owners for repair expenses already incurred pursuant to Kia's General Reimbursement Plan filed April 14, 2014.

**573.6(C) (8) (ii)**

Estimate Date for Notification of Defect  
to Owners and Dealers:

The estimated date of notification to dealers is sometime in June 2014.

The estimated date of notification to all owners is June 2014.

**573.6 (C) (10)**

Notices

A draft of the owner notification letter is attached. The Technical Service Bulletin SC107 will be provided to NHTSA in the near future.

**573.6 (C) (11)**

Manufacturer's Campaign Number  
If Different From Identification  
Number Assigned by NHTSA

SC107

**Chronology re Basis of Defect Determination 573.6(c)(6)**

<b>September 10, 2013</b>	<b>KMA receives report of Cadenza wheel separating. Impact with pothole also reported, resulting in wheel split and contact with the ground.</b>
<b>November 18, 2013</b>	<b>KMA submits Quality Information Report to KMC for evaluation regarding aluminum alloy wheel.</b>
<b>December 30, 2013</b>	<b>KMC determines that the aluminum wheel damage is due to external impact. No material defect such as occlusion identified in aluminum alloy wheel composition.</b>
<b>January 14, 2014</b>	<b>KMA receives second report of Cadenza wheel fracture. Impact with pothole at 65 mph reported, resulting in tire deflation and wheel separation.</b>
<b>February 17, 2014</b>	<b>KMA receives third report of Cadenza front wheel fracture upon impact with pothole.</b>
<b>February 18, 2014</b>	<b>KMA reports the second and third incidents to KMC for further evaluation.</b>
<b>February 26 – April 1, 2014</b>	<b>KMA receives four additional reports of wheel fracture in which the wheel splits at the circular surface of the rim and then makes contact with the ground.</b>
<b>April 10-24, 2014</b>	<b>KMC advises wheel manufacturer and requires further analysis. It is determined that the fractured wheels do not comply with KMC's tensile strength specifications for 19" non-chrome aluminum alloy wheels as a result of inadequate manufacturing process. Additional analysis determines that the other two Cadenza wheel types(18" non-chrome aluminum alloy wheel and 19" chrome aluminum alloy wheel) are not affected.</b>
<b>May 15, 2014</b>	<b>KMA and KMC meet in Korea to discuss issues related to the manufacturing issue in aluminum alloy wheels.</b>
<b>May 22, 2014</b>	<b>KMC decides to conduct a recall pursuant to 49 CFR 573. KMA has identified 2 warranty claims based on wheel fracture and 6 Consumer Affairs cases. No injuries reported.</b>