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ODI RESUME

U.S. Department of Transportation

Traffic Safety Administration

National Highway

Investigation: PE 06-050 Date Opened: 11/09/2006 Principal Investigator: Andrea Noel Subject: Wheel Failure

Date Closed: 04/09/2007

Manufacturer: Nissan North America, Inc. Products: 2006 Nissan 350Z Population: 27,109

Problem Description: Separation of wheel/tire assembly due to spoke breakage near the wheel hub.

FAILURE REPORT SUMMARY				
		ODI	Manufacturer	Total
Complaints:		2	10	10
Crashes/Fires:		1	1	1
Injury Incidents:		1	• 1	1
# Injuries:		1	1	1
Fatality Incidents:		0	0	0
# Fatalities:		0	0	0
Other*:		0	9	9
*Description of Other: Niss	an warranty claims for cracked who	eels		

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Action: This Preliminary Evaluation has been upgraded to an Engineering Analysis (EA07-005).

Engineer: <u>Andrea Noel</u> A. N.	÷	
Div. Chief: Jeffrey L. Quandt		
Office Dir.: Kathleen C. DeMeter		

Date:	04/09/2007
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Summary: The Office of Defects Investigation (ODI) opened PE06-050 based on two consumer complaints alleging incidents of wheel separation while driving due to spoke fracture. One of the incidents resulted in a crash and serious injury when the separated wheel struck a California Highway Patrol Officer on a motorcycle on the opposite side of the freeway.

During PE06-050, ODI determined that both incidents of wheel separation involved Nissan wheels that were subjected to an aftermarket "re-chroming" process. Both incidents occurred in Southern California. Information provided by Nissan showed that problems with "re-chromed" wheels were concentrated almost exclusively in California. Nissan has issued Dealer Bulletins, most recently in August 2006, warning against "re-chroming" wheels because the process may damage wheels. Nissan also submitted complaints and warranty claims concerning cracked spokes in original equipment Nissan Alloy wheels. These claims and complaints were not concentrated in any particular geographic region, but were few in number. According to Nissan, most Alloy wheels with cracked spokes can be attributed to impact damage.

This investigation has been upgraded to an Engineering Analysis (EA07-005) to further assess the causes of spoke cracking in original equipment Nissan wheels and in wheels subjected to "re-chroming" and to assess the risk of additional wheel separations in the subject vehicles.