



**Spartan Chassis, Inc.**  
1165 Reynolds Road - Charlotte, MI - 48813

CG V-173  
(6 pages)

**573 DEFECT & NONCOMPLIANCE REPORT**

**Description:** Cummins ISL CM850 Diesel - Connecting Rods

**Internal Code:** SPEC 06013

**Date of Report:** 5/18/2006

**Submitted to:** Associate Administrator for Safety Assurance  
National Highway Traffic Safety Administration  
400 Seventh Street, SW  
Washington, DC 20590

Attn: Mrs. Pat Wallace, Office of Defects Investigation  
Fax: (202) 366-7882

**Manufacturer Identification:** Spartan Chassis, Inc.  
1165 Reynolds Road  
Charlotte, MI 48813  
  
Telephone: (517) 543-6400

**Corporate contacts for recall information:**

Customer Notification and Customer Service:  
  
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Product Improvement Administrator  
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Report prepared by:  
  
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Preparer's Signature: *Lisa Ward*

# PART 573 Defect and Noncompliance Report

## I. IDENTIFY THE VEHICLE MODELS INVOLVED IN THE RECALL

### 2. Identify the Vehicles Involved in the Recall:

<b>Make:</b>	Spartan Chassis, Inc.		
<b>Model:</b>	DA32L-2142, DA3AH-2142, DA41G-2142, DA41L-2142, DA41M-2142, DA41M-3164, GA41L-2142, GA41M-2142, GA42L-2142, KA41J-2144, KA41M-2144, LA40J-2142, LA41L-2142, LA41M-2142, LA41M-3164, LA42L-2142, VA21-2142, VA40M-2142, VA40M-3164, VA41M-2142, VA41M-2144, VA41M-3164, VA42G-2142, VA42M-2142		
<b>Model Years Involved:</b>	2006		
<b>Vehicle Type:</b>	Fire Truck		
<b>Weight Range:</b>	From GVWR:	38,600	To GVWR: 65,500
<b>Weight Class:</b>	From Class:	8	To Class: 8
<b>Beginning VDM:</b>	11/7/2005	<b>Ending VDM:</b>	4/25/2006
<b>% Potentially Involved:</b>	100%		

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:**

Vehicles included in the recall are identified by sales order number and engine serial number.

**II. IDENTIFY THE RECALL POPULATION**

**3. Furnish the total number of vehicles recalled potentially containing the defect or non-compliance**

MODEL	MODEL YEAR	No. POTENTIALLY INVOLVED
DA32L-2142	2006	1
DA3AH-2142	2006	2
DA41G-2142	2006	3
DA41L-2142	2006	2
DA41M-2142	2006	6
DA41M-3164	2006	1
GA41L-2142	2006	2
GA41M-2142	2006	1
GA42L-2142	2006	1
KA41J-2144	2006	1
KA41M-2144	2006	1
LA40J-2142	2006	1
LA41L-2142	2006	3
LA41M-2142	2006	5
LA41M-3164	2006	1
LA42L-2142	2006	3
VA21-2142	2006	1
VA40M-2142	2006	5
VA40M-3164	2006	1
VA41M-2142	2006	29
VA41M-2144	2006	1
VA41M-3164	2006	1
VA42G-2142	2006	6
VA42M-2142	2006	3
<b>TOTAL:</b>		<b>81</b>

**4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance.**

Approximate Defect Percentage: 16%

**Identify and describe how the recall population was determined--in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled vehicles:**

Cummins determined through data analysis of reported failures that a certain range of engines manufactured with the defective connecting rods have the potential for failure.

### III. DESCRIBE THE DEFECT OR NONCOMPLIANCE

**5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.**

The subject connecting rod transmits energy from the piston to the crankshaft. The connecting rod defect can result in seizure of the piston pin. A piston pin seizure can result in a mission-disabling engine failure.

**Describe the cause(s) of the defect or noncompliance condition.**

Defective connecting rods

**Describe the consequence(s) of the defect or noncompliance condition.**

The engine is disabled.

**Identify any warning which can (a) precede or (b) occur.**

There is no warning.

**If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address:**

Generic Component Name:	Connecting Rod
Supplier Part Number:	3971393
Spartan Part Number:	N/A
Supplier Corporate Name:	Cummins Inc.
Address:	500 Jackson Street Columbus, Indiana U.S.A. 47201
CEO or Knowledgeable Rep:	Steven R. Butler, Director-Engine Certification

**IV. PROVIDE THE CHRONOLOGY IN DETERMINING THE DEFECT/NONCOMPLIANCE**

*If the recall is for a defect, complete item 6, otherwise item 7*

**6. If defect, furnish a chronological summary with dates of all the principle events that were the basis for the determination of the defect. Include number of reports, accidents, injuries, fatalities, and warranty claims.**

Over the first few months of 2006, Cummins received reports of low mile/hour ISL CM850 engine failures at OEM facilities, as vehicles were being transported from the OEM facilities to dealers and/or end-users, and during the early stages of the Warranty period. The failures were occurring on ISL CM850 engines built after October 17, 2005.

In response to these reports, Cummins Service Engineering and Cummins Product Engineering investigated the failures and coordinated problem solving activities. On April 28, 2006, these activities led to a management decision to conduct a safety campaign on connecting rod assemblies in ISL CM850 emergency vehicle engines built between October 17, 2005 and April 6, 2006.

**7. If noncompliance, identify and provide the test results or other data in chronological order with dates on which the noncompliance was determined.**

N/A

**V. IDENTIFY THE REMEDY**

**8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.**

Cummins will replace connecting rods assemblies with non-defective components.

**Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.**

N/A

**Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.**

N/A

**VI. IDENTIFY THE RECALL SCHEDULE**

**Furnish a schedule or agenda, with specific dates, for notification to other manufacturers, dealers/retailers, and purchasers. Please identify any foreseeable problems with implementing this recall.**

N/A

**VII. FURNISH RECALL COMMUNICATIONS**

**9. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications concerning this**

<b>DOCUMENT DESCRIPTION</b>	<b>DATE AND MANNER SUBMITTED</b>
Notification letter to other manufacturers	N/A
Draft Notification letter to purchasers	N/A
Press release (if applicable)	N/A
Recall Service Bulletin (RSB)	N/A
Notification Envelope	Pre-approved

*All documents to be faxed to 202-366-7882, then mailed.*

**The manufacturer's campaign identification number if not identical to the number assigned by NHTSA.**

N/A