



Spartan Chassis, Inc.

1165 Reynolds Road - Charlotte, MI - 48813

OSV-063 (SAs)

573 DEFECT & NONCOMPLIANCE REPORT

Description:	Fuel Lift Pump Failure
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Internal Code:	SPEC 05006	Date of Report:	2/25/2005
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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:	Report prepared by:
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Preparer's Signature: _____

PART 573 Defect and Noncompliance Report

I. IDENTIFY THE VEHICLE MODELS INVOLVED IN THE RECALL

2. Identify the Vehicles Involved in the Recall:

Make:	Spartan Chassis, Inc.		
Model:	BV, CV, SB, SBFE, SBFE-2142, School Bus, SP, TB-2242		
Model Years Involved:	1998 - 2000		
Vehicle Type:	School Bus and Fire Truck		
Weight Range:	From GVWR:	19,000	To GVWR: 33,000
Weight Class:	From Class:	5	To Class: 7
Beginning VDM:	2/5/1998	Ending VDM:	12/7/2000
% Potentially Involved:	100%		

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

This recall is specific to Spartan Chassis Inc school bus and fire truck applications using Cummins ISB engines built between 02/05/1998 - 12/07/2000.

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
BV	1999	1
CV	1989-1999	1
SB	1999	3
SBFE	1999	9
SBFE	2000	6
SBFE-2142	1999	3
SBFE-2142	2000	1
School Bus	1999	29
SP	1999	5
SP	2000	16
TB-2242	1998	10
TOTAL:		84

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

Approximate Defect Percentage: 100%

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:

PE04-034 was transmitted by NHTSA to Cummins on April 12, 2004, requesting warranty and related data. On January 31, 2005 after completing a review and after consultation with counsel, Cummins management determined to conduct a voluntary recall.

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 fuel lift pump is mounted on the side of the engine it's purpose is to draw fuel from the vehicle's fuel tank and supply the engine fuel injection system. The fuel lift pump could fail in a manner which results in engine fuel starvation, which could result in a stall condition. Reference Cummins campaign number 05E-007

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

Potential lift pump failure modes include: brush wear out, bushing failure, rotor tab insert failure, or any other failure mode that would cause the fuel pumping element to stop spinning.

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

If the fuel lift pump pumping element stops spinning and the fuel pumping vanes stop in a location which blocks fuel flow through the lift pump, the engine will be starved of fuel. Fuel starvation could cause low engine power, engine misfire, or engine stall.

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

Prior to the engine stalling, the operator could experience low engine power, engine misfire, and/or dash-mounted fault lamp illumination.

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:	N/A
Supplier Part Number:	3990105 and 3990106
Spartan Part Number:	N/A
Supplier Corporate Name:	Cummins Inc
Address:	Box 3005 Columbus IN 47202
CEO or Knowledgeable Rep:	Steven R. Butler

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.

This issue was brought to the attention of Spartan Chassis Inc by a campaign letter from Cummins, delivered via e-mail February 11, 2005.

Reference attached Cummins customer notification letter campaign number C0504.

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

Reference Cummins 573 defect report number 05E-007.

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.

The remedy will include the replacement of the fuel lift pump with an internal bypass and the installation of a low fuel pressure warning system. The fuel lift pump by-pass valve will allow fuel to flow around the pumping element in the event of a failure since the main fuel injection pump has the ability to draw the fuel from the fuel tank. The low fuel pressure warning system will notify the operator that a malfunction exists in the fuel low pressure system by a dashboard warning light. Reference Cummins 573 defect report NHTSA 05E-007.

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

The recall replacement fuel lift pump has an internal bypass allowing fuel to flow around the pumping element in the event of a failure. A low fuel pressure warning system will be installed to notify the operator that a malfunction exists in the fuel low pressure system by a dashboard warning light.

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.

Reference Cummins 573 defect report NHTSA 05E-007.

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.

This is a Cummins recall being supported by Spartan Chassis Inc. reference recall number 05E-007. Cummins will be coordinating the recall.

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 recall from the time your company determines the defect or noncompliance condition on, not just the initial notification.
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DOCUMENT DESCRIPTION	DATE AND MANNER SUBMITTED
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.
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