



2135 W. Maple Rd  
Troy, MI 48084

arvinmeritoinc.com

June 5, 2008

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2008 JUNE 9  
OFFICE OF DEFECTS INVESTIGATION  
RECALL MGMT DIV. □

08E-038  
(4 pages)

Administrator of Enforcement  
Office of Defects Investigation  
National Highway Traffic Safety Administration  
400 Seventh Street S.W.  
Washington, D.C. 20590

Fax: 202-366-7882

Re: Defect Information Report, in accordance with 49 CFR §573.6, concerning certain wheel end studs supplied by B&D Thread Rolling and assembled into hubs shipped to ArvinMeritor OEM and Aftermarket customers between April 7, 2008 and May 19, 2008

ArvinMeritor File: Unassigned

NHTSA File: Unassigned

Dear Sir /Madam:

ArvinMeritor, Inc. submits this Defect Information Report in accordance with 49 CFR §573.6. The information is presented to correspond to the sub-paragraphs of section §573.6(c).

Information Requested under §573.6(c)(1)

This report is submitted by:

ArvinMeritor, Inc.  
2135 West Maple Road  
Troy, Michigan 48084-7186

Information Requested under §573.6(c)(2):

The affected motor vehicle equipment are wheel end studs supplied by B&D Thread Rolling, 10555 Haggerty Road, Dearborn, MI 48126. B&D out sourced the heat treatment of the affected studs to Commercial Steel Treating Corporation, 31440 Stephenson Highway, Madison Heights, MI 48071. The studs are assembled into hubs at ArvinMeritor Carrollton facility located at 5212 US Hwy. 42 East Carrollton, KY 41008.

A list of affected customers are in Appendix A of this notice.

The population of potential affected hubs was determined by manufacturing records maintained by ArvinMeritor's Carrollton facility.

Information Requested under §573.6(c)(3):

B&D Thread Rolling has determined that approximately 13,743 wheel studs with the head marking "NC-11" are affected. ArvinMeritor assembled these wheel end studs into hubs, which were subsequently shipped to ArvinMeritor inter-plants for assembly into axles, and also shipped as loose studs and hubs to ArvinMeritor aftermarket facility.

ArvinMeritor has determined that approximately 5308 drive and trailer axle hubs and 84 loose studs were shipped during this suspect period.



Information Requested under §573.6(c)(4):

ArvinMeritor has determined that approximately 34.5% (1830/5308 hubs) of the above mentioned population of wheel end studs exhibit the condition described in the paragraph immediately below.

Information Requested under §573.6(c)(5):

The suspect wheel end studs were improperly tempered, potentially rendering them brittle and susceptible to fracture. If one wheel stud fractures, the remaining wheel studs are required to carry more load. If left in this loading condition, the remaining wheel studs may also fracture even if they are properly manufactured. The time between initial bolt fracture and subsequent bolt fracture will be dependent on loading and duty cycle and is unpredictable.

Information Requested under §573.6(c)(6):

**5/16/08:** Great Dane trailer (GD) reports fractured studs in hubs. These hubs were on TL axles assembled in to Ride Sentry suspensions.

**5/19/08:** Spartan Motors and North American Bus Industries (NABI) reported fractured bolts in hubs.

**5/20/08:** Suspect parts were received at ArvinMeritor.

**5/21/08:** Analysis of the bolts revealed 48 HRC compared to specification limits of 33-39 HRC. ArvinMeritor representatives visited Commercial Steel Treating (Heat treat facility) to review process control and historical data. It was determined that the power outage at the heat treat facility caused the furnace to shut down. Parts from lot number NC-11 were in the furnace and the process control protocol for power outage was not followed causing improper heat treatment.

**5/23/08:** Containment actions were initiated at certain OEM locations (Spartan Motors, NABI, Cottrell, Great Dane Wayne and Manac Trailers) to identify scope of issue and gather additional information.

**5/30/08:** ArvinMeritor upper management reviews the information and decides to pursue an effort to campaign product affected from April 7, 2008 and May 19, 2008

Information Requested under §573.6(c)(7):

The impact of this issue towards non-compliance with a motor vehicle standard is unknown at this time.

Information Requested under §573.6(c)(8):

ArvinMeritor is in process of developing the Defect Information Notice to its customers and will submit that information to NHTSA as soon as available. The following is an approximate schedule for the program:

July 2008

Complete notification to affected customers.

In addition, ArvinMeritor has determined that none of the suspect hubs have been remedied prior to this notification and, therefore, that no general pre-notification reimbursement remedy program is required.



We trust that the information provided in this document is fully responsive to the requirements of 49 CFR §573.5. All additions or modifications to any of the information given will be reported promptly to NHTSA. Any questions with respect to the information provided should be directed to the undersigned.

Respectfully Submitted,

ArvinMeritor

A handwritten signature in black ink, appearing to read 'A. Niran', written over a dashed horizontal line.

Niran Audimoolam  
Project Manger  
Product Safety and Compliance

Enclosures  
Appendix A: Summary of affected customers

**Appendix A: Summary of affected customers and quantities**

| NAME                                    | ADDRESS                                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|
| Super Diesel S.A. de C.V                | Offinas en el Parque, Torre II, PH2 Boulevard Diaz Ordaz #140 Monterrey, Nuevo Leon 64650 Mexico |
| MANAC (Four locations)                  | 2275, 107e rue, Saint-Georges, QC CA G5Y 8G6                                                     |
|                                         | 8750, boul. Industriel, Trois-Rivieres, QC, Canada, G9A 5E1                                      |
|                                         | 270, Chenim du trembly, Boucherville, Quebec J4B5X9                                              |
|                                         | 6975, Kenderry Gate, Mississauga, Ontario L5T 2Y1                                                |
| BLUEBIRD (Two locations)                | 402 Blue Bird Boulevard, Fort Valley, GA 31030-5088                                              |
|                                         | 1198 Shattuck Industrial Boulevard, Lafayette, GA 30728                                          |
| Great Dane Wayne                        | 1200 Centennial Road P.O Box 157 Wayne, Nebraska. 68787                                          |
| AA Wheel                                | 717 E 16TH AVENUE N KANSAS CITY MO 64116                                                         |
| Catco (Two locations)                   | 2301 Johanneson Ave NW Bemidji, MN                                                               |
|                                         | 1112 Kuhn Dr. St. Cloud, Mn                                                                      |
| CENTRAL TRAILER SERVICE LTD             | 316 NORTHCREST DR, ALTOONA, POLK, IA, 50009                                                      |
| JERRY & KEITHS INC                      | 2814 LANDCO DR, BAKERSFIELD, KERN, CA, 93308                                                     |
| SCHANTZ AND SONS INC                    | 13480 US HWY 40, HIGHLAND, MADISON, IL, 62249                                                    |
| FORT GARRY INDUSTRIES                   | 1523 ROSS AVE EAST, REGINA, SK, SK S4N7E5                                                        |
| INNOVATIVE TRAILER                      | 714 FALVEY, TEXARKANA, BOWIE, TX, 75505                                                          |
| PVT TRUCK AND TRAILER REPAIR            | 593 MALE ROAD, WIND GAP, NORTHAMPTON, PA, 18091                                                  |
| Maurer Manufacturing                    | 1300 38th Ave W Spencer, IA 51301                                                                |
| M H EBY INC (Two locations)             | 1194 MAIN ST., LANCASTER, PA, 17506                                                              |
|                                         | 1708 EBY DRIVE, STORY CITY, STORY, IA, 50248                                                     |
| Midwest Wheel                           | 1436 E. OVID ST. DES MOINES, IA, 50316                                                           |
| Neville Welding                         | 5581 Southwest 58th Kingsman, KS 67868                                                           |
| Sidump R MFG                            | Hwy 13 & 20 Jct Plainfield, NE 68776                                                             |
| Wheelco                                 | 4904 West 12th Street Sioux Fall, SD 57107                                                       |
| Wilkins                                 | 1480 Hwy 183 Stockton, Ca                                                                        |
| COTTRELL PROPERTIES LP                  | 2125 Candler Road Gainesville, GA 30507                                                          |
| FEATHERLITE INC                         | Hwy 63 & 9 PO Box 320 Cresco, IA. 52136                                                          |
| GREAT DANE TRAILERS INC                 | 1200 N. Centennial Inc. Wayne, NE 68787                                                          |
| HOLLAND USA INC.                        |                                                                                                  |
| JET COMPANY INC                         | 1303 North 13th st Humboldt IA 50548                                                             |
| M H EBY INC-Doug Beaver 717-354-1430    | 1708 eby drive STORY CITY IA 50248-                                                              |
| MANAC INC                               | 8593 State Highway 77 Oran, MO 63771                                                             |
| TRAILMOBILE                             | 455 Gibraltar Drive Mississauga, ON Canada L5P2S9                                                |
| DTNA-CLV                                | 11550 Statesville Road Cleveland, NC 27013                                                       |
| CLAYS INDUSTRIAL SUPPLY (Two locations) | 3514 - 78 Avenue Edmonton, Alberta Canada T6B 2X9                                                |
|                                         | 233 Hereford Road Corpus Christi Texas 78408                                                     |
| COAST POWERTRAIN LTD                    | 420 CANFOR AVENUE NEW WESTMINSTER V3L 5G2 BC                                                     |
| EL DORADO NATIONAL INC                  | 9670 Galena St Riverside Ca, 92509                                                               |
| EMERGENCY ONE INC                       | 3611 SW 20th St Ocala, FL 34474                                                                  |
| FERRARA FIRE APPARATUS                  | 27855 James Chapel Road Holden, LA 70744                                                         |
| GILLIG CORPORATION                      | 25800 Clawiter Road Hayward, CA 94540                                                            |
| GROVE US LLC                            | 1565 Buchanan Trail East Po box 21 Shady Grove, Pa. 17256-0021                                   |
| HENDRICKSON MOBILE EQUIPMENT            | 1950 BYRON CENTER AVENUE WYOMING, MI 49509                                                       |
| KOVATCH MOBILE EQUIPMENT CORP           | One Industrial Complex Nesquehoning, PA 18240                                                    |
| NORTH AMERICAN BUS INDUSTRIES INC       | 106 National Drive Anniston, Al 36207                                                            |
| PIERCE MANUFACTURING INC                | 2600 American Drive Appleton WI, 54914                                                           |
| SEAGRAVES FIRE APPARATUS DIVISION       | 105 E. 12th St. Clintonville WI, 54929                                                           |
| SPARTAN MOTORS INCORPORATED             | 1549 Mikesell Road Charlotte, MI 48813                                                           |
| SUNNY D MANUFACTURING CO INC            | 4343 Highway 39 Klamath Falls Oregon 97603                                                       |
| SUPERFLOW CORPORATION                   | 3512 North Tejon Street Colorado Springs CO, 80907                                               |
| SUTPHEN CORPORATION                     | 1701 West County Line rd Springfield, Ohio 45502                                                 |
| TIFFIN MOTOR HOMES INC                  | 105 2nd St Red Bay, Al 35582                                                                     |