



GILLIG CORPORATION

BOX 3008
HAYWARD, CALIFORNIA
94540-3008
TELEPHONE 510/785-1500
FAX # 510/785-6818

September 23, 2004

Mr. Kenneth Weinstein
Associate Administration for Safety Assurance
National Highway Traffic Safety Administration
400 Seventh Street SW
Washington DC 20590

04V-486
(21 pages)

Dear Mr. Weinstein:

In accordance with the procedures outlined in 40CFR 573.6 Gillig is submitting the attached Safety Defect Information Report. Gillig was notified on September 13, 2004 of a safety recall on Series 40 engines supplied to Gillig by Detroit Diesel Corporation. Detroit Diesel provided the engine serial numbers for the recall on September 22, 2004.

Gillig will provide Detroit Diesel the cross reference listing of VIN numbers vs. engine serial numbers and Detroit Diesel will conduct the recall.

Sincerely,

GILLIG CORPORATION

Charles E. Koske
Senior Vice President, Engineering

CEK/vo
Attachment

cc: R. Birdwell

RECEIVED
SEP 23 2004
NHTSA

Safety Defect and Noncompliance Report Guide for Vehicles

I. Identify the Vehicle Models Involved in the Recall

2. Identify the Vehicles Involved in the Recall, for each make and model or applicable vehicle line (provide illustrations or photographs as necessary to describe the vehicle), provide:

Make(s): Gillig Model Years Involved: 1997-2003 Model(s): low floor and Phantom transit buses

Production Dates: not significant – use of the specific DDC engine by serial number is determining factor – approximate Gillig production dates would be August, 1997 – November, 2003

VIN Range: : not significant – use of the Series-40 engine option identifies vehicle to be recalled

Vehicle Type: Bus Bodystyle: low floor and high floor bus

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

Use of the Detroit Diesel (DDC) Series 40 engine of a specified type – listed by serial number by DDC for which Gillig has VIN number cross reference.

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items of equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period.

Approximately 10% of Gillig buses built during the time period had S-40 engines

II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance.

		Number of Vehicles
<u>Model</u>	<u>Year</u>	<u>Potentially Involved</u>
Low Floor & Phantom buses	1997-2003	810
Total Number Potentially Affected by the Recall:		<u>80</u>

4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance: Gillig has no knowledge of the defect rate – but 100% will be recalled.

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:

All Gillig vehicles with the Series 40 engine serial numbers as identified by Detroit Diesel

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 DDC 573 report states the compressor wheel of the turbocharger may fail – see attached.

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

The DDC's 573 report claims the fatigue life of the turbocharger compressor wheel was reduced as a result of configuration and duty cycle. See attached.;

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

The DDC's 573 report states the failure could lead to lubricating oil in the engine compartment that could result in fire. See attached.

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

Per DDC's 573 the failure can occur without warning. It is possible sometimes to see visible smoke as a warning.

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

The turbocharger is a component of the engine which is supplied to Gillig by Detroit Diesel Corporation.

Detroit Diesel Corporation
13400 Outer Drive West
Detroit, Michigan 48239

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

Mr. Glenn Lysinger Chief Quality Officer

IV. Provide the Chronology in Determining the Defect/Noncompliance

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

6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.

See attached DDC 573 report and attachments. Gillig is aware of vehicle fires attributed to this defect but has no knowledge of accidents, injuries or fatalities related to this issue

7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.

Not applicable.

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.

Detroit Diesel will conduct a safety recall campaign to inspect and replace the turbocharger if necessary.

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

Per DDC's 573 report the new turbocharger is a different design with a boreless compressor wheel and reinforced backplate.

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.

DDC started using boreless compressor wheels in January 2002 in production. The engine has since been discontinued in Gillig buses.

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 the recall.

Gillig will provide DDC the VIN cross reference list this week.

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 (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.*

Note that these documents are to be submitted separately from those provided in accordance with Part 573.8 requirements.

The Privacy Act of 1974 - Public Law 93-579, As Amended: This information is requested pursuant to the authority vested in the National Highway Traffic Safety Act and subsequent amendments. You are under no obligation to respond to this questionnaire. Your response may be used to assist the NHTSA in determining whether a manufacturer should take appropriate action to correct a safety defect. If the NHTSA proceeds with administration enforcement or litigation against a manufacturer, your response, or statistical summary thereof, may be used in support of the agency's action

Draft

DETROIT DIESEL

A DaimlerChrysler Power Systems Company



Dear Equipment Manufacturer:

Detroit Diesel Corporation (DDC) and the National Highway Traffic Safety Administration (NHTSA) have determined that there is a safety concern on the turbochargers on Series 40 engines in transit buses. This Safety Recall will require the inspection and possible replacement of the turbocharger. This concern involves the potential for a turbocharger failure resulting in an engine compartment fire.

Our records indicate that some of the affected engines were shipped to you. A list of those engine serials numbers is enclosed.

To help assure customer satisfaction with the equipment you have assembled with these engines, owners of these affected engines should be instructed to contact their Detroit Diesel service outlet to arrange a service date to have the necessary repairs completed.

This service will be completed at no charge to owners of all affected engines under the engine warranty or under the provisions of this Recall notice.

Instructions for the campaign have been sent to all Detroit Diesel Distributors and Dealers. The time necessary to modify these engines is approximately 3 hours.

If you wish to have Detroit Diesel notify owners of your equipment by sending the attached letter, please provide us with the equipment identification numbers (related to the serial numbers of the engines corresponding to each piece of equipment) of your involved equipment, and the names and addresses of the purchasers. Otherwise, you may decide to notify the owners yourself. Please promptly advise us of your wishes.

We are sorry to cause you this inconvenience, however, we have taken this action in the interest of continued customer satisfaction with both your products and ours.

**DETROIT DIESEL CORPORATION
CAMPAIGN BULLETIN #4C-1
SERVICE ADMINISTRATION CAMPAIGN COORDINATOR (BX-5)**

Draft

DETROIT DIESEL

Corporation



July 15, 2004

To: All Distributors - U.S. and Canada

Attn: General Service Manager

Subject: Safety Recall 04C-1
Series 40 Turbochargers

Attached is your copy of Safety Recall 04C-1. Also attached is a list of engine serial numbers which, according to our records, were sold and shipped to your Distributorship, and are affected by Safety Recall 04C-1.

It is essential that units still in your inventory be inspected to determine the type of turbocharger and replace if necessary with a boreless compressor wheel turbocharger.

If any of these engines have been sold and delivered, it will be required that owners be notified of this modification so corrective action can be taken. Owners can be notified by sending the attached owner letter.

Additionally, a quantity of adhesive labels has been included so that, upon completion of the repairs, the label can be affixed on the valve cover indicating the campaign has been completed.

If you determine that any of the engines listed, are now located outside your area, or in the event you have any questions, contact Detroit Diesel.

The Detroit Diesel Warranty System can be utilized to determine if a particular engine serial number is affected by this campaign.

The attached Recall bulletin should be used when announcing this campaign to your dealer organization if required.

Sincerely,

R. P. Dziadzio, Manager
Service Operations

Draft

DETROIT DIESEL

CORPORATION



July 15, 2004

To: All Distributors – U.S. and Canada

Attn: General Service Manager

Subject: Safety Recall 04C-1
Series 40 Turbochargers

Attached is your copy of Safety Recall 04C-1. Our records show no engines eligible for this modification were shipped to your Distributorship.

A quantity of adhesive labels has been included so that, upon completion of the repairs, the label can be affixed on the valve cover indicating the campaign has been completed.

The Detroit Diesel Warranty System can be utilized to determine if a particular engine serial number is affected by this campaign.

The attached Recall bulletin should be used when announcing this campaign to your dealer organization if required.

Sincerely,

R. P. Dziadzio, Manager
Service Operations

Draft

DETROIT DIESEL

A DetroitChrysler PowerSystems Company



Attention Owner:

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

Detroit Diesel Corporation (DDC) has decided that a defect which relates to motor vehicle safety exists in certain turbochargers on Series 40 engines in transit buses.

The turbocharger can fail, allowing lubricating oil to spill onto the engine. This can result in a fire in the engine compartment.

Records available to us indicate that your vehicle is equipped with one of these affected engines. DDC will repair your engine at no charge to you to inspect and replace the turbocharger to prevent the possibility of an engine compartment fire. We estimate that it will take approximately 3 hours to repair your engine. Please contact your authorized Detroit Diesel Distributor to arrange a service date.

If you have any questions about this recall campaign, you may call 313-592-3708. If you believe that DDC has failed or is unable to remedy the defect without charge within a reasonable time, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590 or call the toll-free Auto Safety Hotline at 1-888-327-4236.

We are sorry to cause you this inconvenience; however, we have taken this action in the interest of your continued satisfaction with our products.

**DETROIT DIESEL CORPORATION
SERVICE ADMINISTRATION CAMPAIGN COORDINATOR (BX-5)**

Draft

SAFETY RECALL BULLETIN

Subject: Safety Recall 04C-1
Series 40 Turbochargers

Defect Involved

Detroit Diesel Corporation (DDC) has determined that certain Series 40 engines, equipped in buses, will need to be inspected to determine the type of turbocharger and replace it if necessary with an improved turbocharger with a boreless compressor wheel and reinforced backplate with improved attachment.

The cause of the problem was engines experiencing turbocharger failure. Turbocharger compressor wheel failure and backplate failure can result in lubricating oil passing into the engine compartment and impinging on hot surfaces. This can result in a fire.

Engines Involved

A list of engines located in your area of responsibility that require this correction is attached.

The table below gives descriptive information to help identify the affected units:

Model Series	Model Year	Inclusive Mfg. Date	
		(From)	(To)
40	1997	4N	4N
	1998	4N	4N
	1999	4N	4N
	2000	4N	4N
	2001	4N	4N
	2002	4N	4N

Owner Notification

Detroit Diesel Corporation and Detroit Diesel Distributors will notify owners of equipment incorporating engines identified with this recall. A copy of the owner letter that will be used by DDC is enclosed with this bulletin.

Draft

Safety Recall Bulletin 04C-1
Page Two

Distributor / Dealer Modification Responsibility

Detroit Diesel Distributors are to service all engines subject to this Recall. The Recall is to be performed at no charge to owners on all affected engines under the engine warranty or under the provisions of this Recall notice.

Parts Information

- o Turbocharger

Corrective Procedure

- o Reference ATTACHMENT I

Installation Instructions INSTALL TURBOCHARGER on a Series 40 Engine, pp. 1-4.

Warranty Information

Claim Type:	01
Activity Indicator:	04C-1
Failure Code:	029
Complaint Code:	XX
Primary Failed Part:	_____
Labor:	3.0 hours
Parts Return:	None

It is expected that this Recall will be completed as soon as possible. Should you have any additional questions, please contact Detroit Diesel.

Draft

Recall Bulletin 04C-1
Page Three

Affix the following label to the valve cover:

**CAMPAIGN
04C-1
COMPLETED**

DETROIT DIESEL CORPORATION
13400 Cuyler Drive West
Detroit, Michigan 48226-4001

BULLETIN

Draft

**CAMPAIGN
04C-1
COMPLETED**

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Safety Defect and Noncompliance Report Guide for Vehicles
PART 573 Defect and Noncompliance Responsibility and Reports¹

On July 15, 2004, Detroit Diesel [MFR] decided that (a defect which relates to motor vehicle safety)(a noncompliance with Federal Motor Vehicle Safety Standard No. _____) exists in the motor vehicles listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Responsibility and Reports.

Date this report was prepared: July 15, 2004

Furnish the manufacturer's identification code for this recall (if applicable): _____

1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled. If the recalled vehicle is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

Detroit Diesel Corporation

13400 Outer Drive West

Detroit, Michigan 48239

Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.

Glenn W. Lysinger

Chief Quality Officer

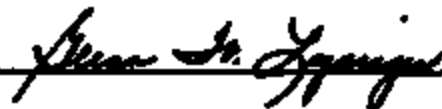
Telephone Number: (313) 592-7357 Fax No.: (313) 592-7888

Name and Title of Person who prepared this report.

Glenn W. Lysinger

Chief Quality Officer

Signed: _____



¹ Each manufacturer must furnish a report, to the Associate Administrator for Safety Assurance, for each defect or noncompliance condition which relates to motor vehicle safety.

This guide was developed from 49 CFR Part 573, "Defect and Noncompliance Responsibility and Reports" and also outlines information currently requested. Any questions, please consult the complete Part 573 or contact Mr. George Person at (202) 366-5210 or by FAX at (202) 366-7882.

I. Identify the Vehicle Models Involved in the Recall

2. Identify the Vehicles Involved in the Recall, for each make and model or applicable vehicle line (provide illustrations or photographs as necessary to describe the vehicle), provide:

Make(s): Series 40 **Model Years Involved:** 1997 thru 2002 **Model(s):** Transit

Production Dates: Beginning: 1-1-1997 **Ending:** 8-4-02

VIN Range: Beginning: 4N **Ending:** 4N

Vehicle Type: N/A **Bodystyle:** N/A

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

Engines in vehicles of this group were built before the introduction of the boreless compressor wheel version with improved backplate attachment.

Make(s): _____ **Model Years Involved:** _____ **Model(s):** _____

Production Dates: Beginning: _____ **Ending:** _____

VIN Range: Beginning: _____ **Ending:** _____

Vehicle Type: _____ **Bodystyle:** _____

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

Make(s): _____ **Model Years Involved:** _____ **Model(s):** _____

Production Dates: Beginning: _____ **Ending:** _____

VIN Range: Beginning: _____ **Ending:** _____

Vehicle Type: _____ **Bodystyle:** _____

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

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items of equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period.

II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance.

<u>Model</u>	<u>Year</u>	<u>Number of Vehicles Potentially Involved</u>
Series 40	1997 thru 8-4-02	1,559

Total Number Potentially Affected by the Recall:

1,559

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

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:

Build records and warranty information records were examined to determine the population
which was built.

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 turbocharger on these engines may fail prematurely. The failure would consist of breakage of the turbocharger compressor wheel and backplate.

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

The fatigue life of the material in the turbocharger compressor wheel was reduced as a result of its configuration and duty cycle. This can lead to breakage of the wheel and backplate.

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

Turbocharger compressor wheel failure and backplate failure can result in lubricating oil passing into the engine compartment and impinging on hot surfaces. This can result in a fire.

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

The failure can occur without warning. When such a condition occurs, visible exhaust smoke can be seen out the engine compartment vents.

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

The turbochargers in question were manufactured by:

Honeywell Turbocharging Technologies

3201 W. Lomita Blvd.

Torrance, CA

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

Jeff Donnell, President

IV. Provide the Chronology in Determining the Defect/Noncompliance

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

6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.

Since the introduction of the 1997 thru 2001 model year engines, there have been 14 cases of turbocharger failure leading to engine compartment fires. The information on these failures was determined by a search of warranty records. A summary chart is attached. There have been no accidents, injuries or fatalities associated with these fires.

7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.
-
-
-
-

V. Identify the Remedy

8. A description of the manufacturer's program for remedying the defect or noncompliance. This program shall include a plan for reimbursing an owner or purchaser who incurred costs to obtain a remedy for the problem addressed by the recall within a reasonable time in advance of the manufacturer's notification of owners, purchasers and dealers, in accordance with §573.13 of this part. A manufacturer's plan may incorporate by reference a general reimbursement plan it previously submitted to NHTSA, together with information specific to the individual recall. Information required by §573.13 that is not in a general reimbursement plan shall be submitted in the manufacturer's report to NHTSA under this section. If a manufacturer submits one or more general reimbursement plans, the manufacturer shall update each plan every two years, in accordance with §573.13. The manufacturer's remedy program and reimbursement plans will be available for inspection by the public at NHTSA headquarters.

Detroit Diesel will conduct a Safety Recall Campaign to inspect and replace the turbocharger as necessary to ensure that affected units have a boreless turbocharger compressor wheel and reinforced backplate and attachment installed.

9. 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 new turbocharger has a boreless compressor wheel and reinforced backplate and attachment to the center housing.

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

The turbochargers installed will have boreless compressor wheels and reinforced backplate and attachment.

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.

Boreless turbocharger compressor wheels were introduced into production in January of 2002. Numerous boreless compressor turbochargers have been already installed on engines where turbocharger failure had occurred under the engine warranty or by customer goodwill.

VI. Identify the Recall Schedule

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

Boreless compressor wheel turbochargers will be available 8-23-04 through the Detroit Diesel Service Parts system.

VII. Furnish Recall Communications

11. 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 (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.*

Note that these documents are to be submitted separately from those provided in accordance with Part 579.5 requirements.