CRANE CARRIER COMPANY

Patricia Wallace
National Highway Traffic Safety Administration
Department of Transportation
400 Seventh Street, SW
Washington, DC 20590

Via Fax: (202) 366-7882

Reference: Recall No.05V-218

PART 573 Defect and Noncompliance Report

On April 25, 2005, Crane Carrier Company (manufacturer) decided that a noncompliance with 49 CFR Part 571.121 exists in certain motor vehicles, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR, Part 573.6 Defect and Noncompliance Reports.

Date this report was prepared: May 13, 2005

1. Manufacturer: Crane Carrier Company
   1925 N. Sheridan Rd.
   Tulsa, OK 74158

   Contact: Jeffrey L. Carpenter
   Director of Service
   Phone: (918) 832-7305
   Fax: (918) 832-7333

   Report prepared by: Jeffrey L. Carpenter

   Signed: Jeffrey L. Carpenter
   Jeffrey L. Carpenter
   Director of Service

I. Identify the Vehicle Model Involved in the Recall

2. Vehicles involved in the recall:
   Make: Crane Carrier
   Model years involved: 1999 Thru 2005
   Models: DR
   GVWR: 80,000 to 121,000
   Production Dates: Beginning: 6/10/1999
   Ending: 4/15/2005
   VIN Range: 1CYDCM488XTO44027 Thru 1CYDGV6865T046864
   Vehicle Type: Cab and Chassis
   Body style: Mobile Drill Rig

The recall population was identified by computer search of all DR model cab and chassis' with a Gross Vehicle Weight Rating of 80,000 pounds or greater. This search identified all mobile drill rig cab and chassis' with a 4 (four) or 5 (five) axle configuration.

II. Identify the Recall Population

3. The total number of vehicles recalled potentially containing the noncompliance by model year.

Model	Year	Number
DR	1999	5
DR	2000	13
DR	2001	21
DR	2002	9
DR	2003	21
DR	2004	51
DR	2005	11

Total number potentially affected by the recall: 131

4. The percentage of vehicles recalled estimated to actually contain the noncompliance is 100%.

III. Describe the Noncompliance

5. Description of the Noncompliance: The Noncompliance relates to brake application timing, brake release timing, and reservoir volume as specified in Title 49 CFR Part 571.121 Sections S5.3.3.1, S5.3.4.1, and S5.1.2.1 respectively. The remedy instructions will specify exact fittings and hoses with locations that will be replaced to bring the vehicles into compliance. These instructions will be supplied to NHTSA as part of the recall communications as quickly as they are completed.

Description of the cause of the Noncompliance: The noncompliance relating to timing occurred as a result of incorrect fitting and hose selection. Reservoir volume was miscalculated as a result of using historical chamber volume values rather than current production larger volume chamber values.

Description of the consequences of the Noncompliance: The consequence is reduced braking performance.

IV. Chronology in Determining the Noncompliance

7. On April 18, 2005 a Regional Service Engineer representing Bendix Commercial Vehicle Systems LLC arrived at our manufacturing facility for scheduled brake system performance testing in conjunction with Crane Carrier Engineering Department. Testing was performed on April 19, 20, and 21, 2005. On April 25, 2005 I was notified by my engineering department that testing had concluded and the results evaluated. The testing revealed timing discrepancies that were corrected through various fitting and hose changes within the air brake system, bringing the vehicles into compliance. Additionally, as part of the audit of the air brake system, a calculation error was identified relating to air reservoir volume. Copies of the initial test results are attached. Please note that the date/time stamp on the laptop computer used

to monitor and record the test results was incorrect. We have contacted the Bendix Representative that performed the testing to obtain updated copies with a corrected date/time stamp that accurately reflects when the test were in fact performed.

V. Identify the Remedy

8. Description of Manufacturer's remedy for the Noncompliance: The remedy involves replacement of several fittings and hoses which increase air flow and subsequently improve application and release timing. This, along with the installation of a larger wet tank to increase reservoir volume bring the vehicles into compliance. Detailed remedy instructions will be supplied as part of the recall documentation upon their completion.

   Crane Carrier will work directly with each owner to identify a repair facility of their choice to perform the modification. We will then work with the identified facility to assure the modification is properly accomplished in a timely manner. Parts and instructions will be shipped to a location of the owner's choice at no charge. Labor will be reimbursed at the individual hourly rate of the facility by invoice or letter. Crane Carrier Warranty Service Centers will be reimbursed by warranty claim.

   Production Correction: On 4/27/05 Crane Carrier Engineering Dept. developed and implemented necessary changes in the air brake piping. These changes have been incorporated as the field remedy for this recall.

VI. Identify the Recall Schedule

All vehicles involved in the recall where identified on 4/28/05.

On 5/9/05 a Crane Carrier Regional Service Manager was dispatched from Tulsa, OK to Garland, TX and began reworking inventory chassis' at one of the three final stage manufacturers the units are supplied to.

Final Stage Manufacturer/Dealer notification will take place this week.

Owner notification will begin upon receiving owner information from the three final stage manufacturers, and approval by NHTSA of the Owner Notification Letter and associated mailing envelope draft copies attached to this report. We reasonably expect to begin mailing the week of May 23, 2005 and complete the mailing the week of May 30, 2005.

Remedy Instructions and all necessary parts should be ready to begin shipping by June 1, 2005.

VII. Furnish Recall Communications

9. Crane Carrier Company will provide copies of all recall communications as well as test results no later than June, 2005.

10. Please find attached a draft copy of the Owner Notification Letter.

AlliedSignal Bendix Truck Brake Systems

Date/Time: 1/26/05 9:26:58 PM
Service Technician: Gilberto Corona
Customer/Fleet: Craine Carrier Company
Customer Location: Tulsa, OK.
Vehicle Description: CCC 5 Axle
Test Description: Brake Balance & Timing Test
Comments: Two Steer Axles (Type 30 Service Brake Chambers with 6" ASA-5 Slacks)
Three Rear Axles (Type 30 Chambers with 6" ASA-5 Slacks)

Standard Timing Results

	Run #1		Run #2		Run #3		Average	
Channel	Apply	Release	Apply	Release	Apply	Release	Apply	Release
First Axle	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sec Axle	0.794	1.054	0.573	1.026	0.816	0.976	0.728	1.019
Third Axle	0.735	0.528	0.517	0.517	0.698	0.398	0.650	0.481
Fourth Axl	0.842	0.583	0.629	0.575	0.820	0.457	0.764	0.538
Fifth Axle	0.844	0.575	0.631	0.563	0.823	0.447	0.766	0.528
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.596	0.000	0.379	0.000	0.641	0.000	0.539	0.000

AlliedSignal Bendix Truck Brake Systems

Date/Time: 1/28/05 9:58:27 PM
Service Technician: Gilberto Corona
Customer/Fleet: Craine Carrier Company
Customer Location: Tulsa, OK.
Vehicle Description: CCC Unit # 46921
Test Description:
Comments: Two Steer Axles & Two Rear Axles

Standard Timing Results

	Run #1		Run #2		Run #3		Average	
Channel	Apply	Release	Apply	Release	Apply	Release	Apply	Release
First Axle	0.524	0.913	0.494	0.924	0.501	0.925	0.506	0.921
Sec Axle	0.520	0.903	0.490	0.911	0.497	0.912	0.502	0.909
Front Rear	0.449	0.531	0.417	0.537	0.426	0.534	0.431	0.534
Rear Rear	0.446	0.531	0.418	0.535	0.424	0.532	0.429	0.533
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

CRANE CARRIER COMPANY

VEHICLE DEFECT OWNER NOTIFICATION

(Recall No. 05V-218)

Dear Crane Carrier Vehicle Owner;

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

REASON FOR THIS RECALL

Crane Carrier has decided that certain 1999 thru 2005, DR model Mobile Drill Rig cab and chassis' equipped with four (4) or five (5) axle configurations fail to conform to Federal Motor Vehicle Safety Standard No. 121; Air Brake Systems.

These vehicles were built with air brake system plumbing that will not facilitate current standards S5.3.3 for brake application timing where tested timing was slower then required, S5.3.4 for brake release timing where tested timing was slower then required, and S5.1.2 for reservoir capacity where capacity was less than required.

These vehicles will experience reduced braking performance as a result. As a precaution until the remedy has been performed on the vehicle, allow for increased stopping distances at all times and under all conditions while driving. If this warning is not heeded vehicle crash can occur. These vehicles will experience a fractional second delay in brake application and release.

WHAT YOU SHOULD DO

Crane Carrier urges you to contact the Crane Carrier Service Department at (918) 832-7305. We will assist in coordinating the modification with your repair facility or one of the Crane Carrier Warranty Service Centers throughout the United States.

The remedy will require the replacement of select fittings, hoses, and one reservoir in the air brake system. Crane Carrier will supply at no charge all necessary parts and installation instructions. The labor time necessary to perform this service correction is approximately six and a half (6½) hours for tri-drive vehicles and five (5) hours for tandem drive vehicles. Crane Carrier will reimburse the installing facility up to seven and a half hours (7½) hours labor for tri-drive and six (6) hours labor for tandem drive per vehicle at the repair facility's posted labor rate. Reimbursement may be obtained by filing a warranty claim (authorized Warranty Service Centers) or by letterhead invoice (all other facilities).

Request for remedy part kits and/or labor reimbursement should be sent to: Director of Service, Crane Carrier Co., P.O. Box 582891, Tulsa, OK, 74158. The earliest date on which parts and instructions will be available for shipping and the noncompliance remedied without charge is 6/1/2005. If you should have any questions concerning this recall notice you may contact the Crane Carrier Company Service Department at (918) 832-7305. Federal Regulation requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

After contacting the Crane Carrier Company Service Department, if you are still not able to have the safety defect remedied without charge and within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington DC 20590 or call 1 888-327-4236.

We apologize for this inconvenience; however, we have taken this action in the interest of public safety and continued satisfaction with our products. If you have sold or traded the affected vehicle, please let us know by either fax at (918) 832-7333 or by e-mail at service@cranecarrier.com. If you had this repair performed before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall. For more information contact Crane Carrier Company Service Department at (918) 832-7305 or by e-mail at service@cranecarrier.com.

Sincerely

Jeffrey L. Carpenter
Director of Service

CRANE CARRIER COMPANY
P.O. BOX 582891 • TULSA, OK 74158

SAFETY, RECALL, NOTICE

Owners Name
Street Address
City, ST XXXXX

VIN	Final Stage Manufacturer	GVWR	Axle Configuration	Date of Manufacture
1CYDGD5852T045731	Schramm Inc.	114180	10X4	2002
1CYDED5834T046336	Watson/Hopper	111500	10X4	2004
1CYDGD5803T045959	Schramm Inc.	117500	10X4	2003
1CYDGD5843T046189	Schramm Inc.	117500	10X4	2003
1CYDGD5853T045956	Schramm Inc.	117500	10X4	2003
1CYDGD5873T045957	Schramm Inc.	117500	10X4	2003
1CYDGD5883T045840	Schramm Inc.	114180	10X4	2003
1CYDGD5893T045958	Schramm Inc.	117500	10X4	2003
1CYDGD5804T046191	Schramm Inc.	117500	10X4	2004
1CYDGD5804T046353	Schramm Inc.	117500	10X4	2004
1CYDGD5814T046359	Schramm Inc.	117500	10X4	2004
1CYDGD5824T046192	Schramm Inc.	117500	10X4	2004
1CYDGD5864T046504	Schramm Inc.	117000	10X4	2004
1CYDGD5864T046678	Schramm Inc.	117000	10X4	2004
1CYDGD5874T046284	Schramm Inc.	117500	10X4	2004
1CYDGD5884T046360	Schramm Inc.	117500	10X4	2004
1CYDGD5894T046190	Schramm Inc.	117500	10X4	2004
1CYEGW6824T046367	Watson/Hopper	111500	10X4	2004
1CYEGW6844T046368	Watson/Hopper	111500	10X4	2004
1CYEGW6854T046363	Watson/Hopper	111500	10X4	2004
1CYEGW6874T046364	Watson/Hopper	111500	10X4	2004
1CYEGW6894T046334	Watson/Hopper	111500	10X4	2004
1CYEGW6894T046365	Watson/Hopper	111500	10X4	2004
1CYDGV5825T046751	Atlas Copco	113000	10X4	2005
1CYDGV5845T046752	Atlas Copco	113000	10X4	2005
1CYDGV6805T046861	Schramm Inc.	117000	10X4	2005
1CYDGV6815T046691	Schramm Inc.	117500	10X4	2005
1CYDGV6825T046862	Schramm Inc.	117000	10X4	2005
1CYDGV6835T046692	Schramm Inc.	117500	10X4	2005
1CYDGV6845T046863	Schramm Inc.	117000	10X4	2005
1CYDGV6865T046864	Schramm Inc.	117000	10X4	2005
1CYDGV6875T046694	Schramm Inc.	117500	10X4	2005
1CYDGV68X5T046690	Schramm Inc.	117500	10X4	2005
1CYEGW6805T046546	Watson/Hopper	118500	10X4	2005
1CYEGW6805T046854	Watson/Hopper	118500	10X4	2005
1CYEGW6825T046547	Watson/Hopper	118500	10X4	2005
1CYEGW6825T046855	Watson/Hopper	118500	10X4	2005
1CYEGW6845T046548	Watson/Hopper	118500	10X4	2005
1CYEGW6855T046557	Watson/Hopper	118500	10X4	2005
1CYDGC4863T046013	Atlas Copco	113000	10X6	2003
1CYDGC4893T045891	Atlas Copco	113000	10X6	2003
1CYDGD5853T045925	Atlas Copco	113000	10X6	2003
1CYDGD5863T046064	Atlas Copco	113000	10X6	2003
1CYDGD5804T046501	Atlas Copco	113000	10X6	2004
1CYDGD5814T046300	Atlas Copco	113000	10X6	2004
1CYDGD5814T046314	Atlas Copco	113000	10X6	2004
1CYDGD5814T046376	Atlas Copco	113000	10X6	2004

1CYDGD5824T046337	Atlas Copco	113000	10X6	2004
1CYDGD5834T046377	Atlas Copco	113000	10X6	2004
1CYDGD5834T046458	Atlas Copco	113000	10X6	2004
1CYDGD5844T046551	Atlas Copco	113000	10X6	2004
1CYDGD5854T046428	Atlas Copco	113000	10X6	2004
1CYDGD5854T046493	Atlas Copco	113000	10X6	2004
1CYDGD5864T046471	Atlas Copco	113000	10X6	2004
1CYDGD5864T046552	Atlas Copco	113000	10X6	2004
1CYDGD5874T046494	Atlas Copco	113000	10X6	2004
1CYDGD5884T046374	Atlas Copco	113000	10X6	2004
1CYDGD58X4T046375	Atlas Copco	113000	10X6	2004
1CYDGV5804T046598	Atlas Copco	113000	10X6	2004
1CYDGV5854T046595	Atlas Copco	113000	10X6	2004
1CYDGV5874T046596	Atlas Copco	113000	10X6	2004
1CYDGV5894T046597	Atlas Copco	113000	10X6	2004
1CYDGV5825T046698	Atlas Copco	113000	10X6	2005
1CYDGV5825T046815	Atlas Copco	113000	10X6	2005
1CYDGV5845T046699	Atlas Copco	113000	10X6	2005
1CYDGV5875T046700	Atlas Copco	113000	10X6	2005
1CYDGV5885T046785	Atlas Copco	113000	10X6	2005
1CYDGV5895T046701	Atlas Copco	113000	10X6	2005
1CYDEM5862T045713	Atlas Copco	83520	8X4	2002
1CYDEM5882T045714	Atlas Copco	83520	8X4	2002
1CYDCM488XT044027	Atlas Copco	85000	8X4	1999
1CYDCM586XT044252	Atlas Copco	86000	8X4	1999
1CYDCM480YT044735	Atlas Copco	86000	8X4	2000
1CYDCM481YT044744	Atlas Copco	86000	8X4	2000
1CYDCM484YT044690	Atlas Copco	86000	8X4	2000
1CYDCM486YT044870	Atlas Copco	86000	8X4	2000
1CYDCM487YT044568	Atlas Copco	86000	8X4	2000
1CYDCM489YT044426	Atlas Copco	86000	8X4	2000
1CYDCM489YT044538	Atlas Copco	86000	8X4	2000
1CYDCM48XYT044564	Atlas Copco	86000	8X4	2000
1CYDCM48XYT044743	Atlas Copco	86000	8X4	2000
1CYDCM580YT044393	Atlas Copco	86000	8X4	2000
1CYDCM581YT044953	Atlas Copco	86000	8X4	2000
1CYDEM480YT044745	Atlas Copco	86000	8X4	2000
1CYDEM482YT044746	Atlas Copco	86000	8X4	2000
1CYDCM4811T044894	Atlas Copco	86000	8X4	2001
1CYDCM4811T044958	Atlas Copco	86000	8X4	2001
1CYDCM4811T045124	Atlas Copco	86000	8X4	2001
1CYDED5821T045447	Atlas Copco	87500	8X4	2001
1CYDEM4801T045125	Atlas Copco	89000	8X4	2001
1CYDEM4801T045139	Atlas Copco	85000	8X4	2001
1CYDEM4801T045237	Atlas Copco	90000	8X4	2001
1CYDEM4811T045232	Atlas Copco	86000	8X4	2001
1CYDEM4821T045238	Atlas Copco	90000	8X4	2001
1CYDEM4831T045233	Atlas Copco	86000	8X4	2001

1CYDEM4841T045368	Atlas Copco	90000	8X4	2001
1CYDEM4841T045371	Atlas Copco	90000	8X4	2001
1CYDEM4851T045234	Atlas Copco	86000	8X4	2001
1CYDEM4851T045301	Atlas Copco	86000	8X4	2001
1CYDEM4851T045458	Atlas Copco	87500	8X4	2001
1CYDEM4861T045372	Atlas Copco	90000	8X4	2001
1CYDEM4861T045422	Atlas Copco	87520	8X4	2001
1CYDEM4871T045137	Atlas Copco	85000	8X4	2001
1CYDEM4871T045235	Atlas Copco	86000	8X4	2001
1CYDEM4871T045459	Atlas Copco	90000	8X4	2001
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1CYDEM4891T045236	Atlas Copco	86000	8X4	2001
1CYDED5822T045448	GEFCO	93200	8X4	2002
1CYDEM4812T045460	Atlas Copco	90000	8X4	2002
1CYDEM4812T045796	Atlas Copco	87520	8X4	2002
1CYDEM48X2T045795	Atlas Copco	87520	8X4	2002
1CYDGM4872T045652	Atlas Copco	91520	8X4	2002
1CYDEC4823T045916	Atlas Copco	89000	8X4	2003
1CYDEC4833T045990	Atlas Copco	89000	8X4	2003
1CYDEC4853T045991	Atlas Copco	89000	8X4	2003
1CYDEC4873T046012	Atlas Copco	89000	8X4	2003
1CYDEC4883T045922	Atlas Copco	89000	8X4	2003
1CYDED5813T046074	Atlas Copco	89000	8X4	2003
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1CYDEM58X4T046558	Atlas Copco	90000	8X4	2004
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1CYDEV6884T046465	Atlas Copco	86000	8X4	2004
1CYDGD5824T046323	Atlas Copco	85000	8X4	2004
1CYDEM5815T046594	Atlas Copco	90000	8X4	2005
1CYDGD5804T046370	Schramm Inc.	121000	10X6	2004
1CYDGD5834T046539	Schramm Inc.	121000	10X6	2004