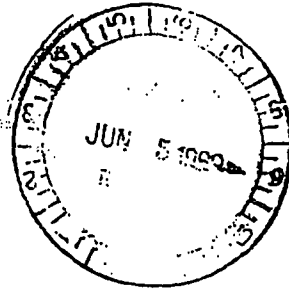


The Travelers

The Travelers Companies  
2270 Lakeside Blvd.  
Richardson, TX 75081  
P.O. Box 660055  
Dallas, TX 75266-0055



J.W.  
6/5  
Dallas Office

May 30, 1989

Mr. Art Catlin  
General Manager  
Genuine Parts Company, Inc.  
Rayloc - Payson  
P. O. Box 347  
Payson, Utah 84651

Dear Mr. Catlin:

The attached report will confirm the results of my industrial hygiene air sampling survey conducted at your automotive replacement part remanufacturing facilities on March 29, 1989. This survey was requested by Rayloc division management to assess employees' potential exposure to airborne asbestos fibers during typical Brake Department operations. The areas evaluated during this survey included Debonding, Delining, Disc Brake Riveting, Clutch Disc Drilling, and Receiving operations.

Also during this survey, industrial hygiene air sampling was performed in the Cleaning Room to assess employees' potential exposure to perchloroethylene vapors during degreasing operations. Both personal and general area samples were taken to evaluate this exposure.

I would like to thank both you and Ms. LuAnn Wignall, Personnel Manager, for your cooperation and the courtesies extended towards me during my visit. If you have any questions regarding this industrial hygiene air sampling survey or the recommendations submitted, please contact me.

Yours truly,

Joseph E. David, III

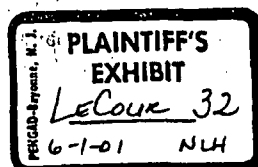
Joseph E. David, III  
Engineering Specialist  
Industrial Hygiene and Environmental Services Unit  
214-470-8974

JED:lm

SCF-NAPA-3200

NAPA 038

NOVO20052



GENUINE PARTS COMPANY, INC., RAYLOC-PAYSON  
PAYSON, UTAH

MAY 30, 1989  
PAGE 2

Distribution:

Orig: As Addressed

- 1 cc: Ms. LuAnn Wignall  
Genuine Parts Company, Inc.  
Rayloc - Payson  
P. O. Box 347  
Payson, Utah 84561
- 1 cc: Mr. Thomas W. Wright  
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- 1 cc: SAM Casualty Underwriting  
Home Office 10 MN  
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NOVO20053

# ENGINEERING REPORT

for

GENUINE PARTS COMPANY, INC.  
RAYLOC - PAYSON  
700 North, 500 East  
Payson, Utah 84651

**TheTravelers**  
**ENGINEERING DIVISION**

# ENGINEERING REPORT

for

GENUINE PARTS COMPANY, INC.  
RAYLOC - PAYSON  
700 North, 500 East  
Payson, Utah 84651

Industrial Hygiene  
Survey

March 29, 1989

prepared by

JOSEPH E. DAVID, III  
Engineering Specialist

Industrial Hygiene  
and Environmental  
Services Unit

2270 Lakeside Blvd.  
Richardson, Texas 75082

TheTravelers

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NOVO20055

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| Recommendations      | - Page 3 |
| Technical Discussion | - Page 5 |

### **SECTION II    APPENDIX:**

|                                                                        |
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| Exhibit 1: Industrial Hygiene Survey Data Sheets (6)                   |
| Exhibit 2: Industrial Hygiene Analysis Report<br>Extensions Sheets (4) |
| Exhibit 3: TEM Analysis Results                                        |
| Exhibit 4: OSHA Asbestos Standard (1910.1001)                          |
| Exhibit 5: Eight-Hour Time-Weighted Average<br>Calculations            |

NOVO20056

### INTRODUCTION

During January 1989, I was contacted by Mr. William Wright, Jr., Loss Control Engineer with The Travelers Atlanta Office, to discuss industrial hygiene air sampling requested by Rayloc Remanufacturing division management. Mr. Wright serves as the Engineering Account Manager for Genuine Parts Company, Inc.

Rayloc division management requested an industrial hygiene air sampling evaluation at selected Remanufacturing locations to assess employees' potential exposure to airborne asbestos fibers during typical Brake Department operations.

I contacted Mr. Art Gatlin, General Manager, to schedule an industrial hygiene air sampling survey at the Rayloc Remanufacturing facilities in Payson, Utah, Location Code 2-5-121. On March 29, I conducted an industrial hygiene air sampling survey at this location to assess employees' potential exposure to airborne asbestos fibers during typical Brake Department operations. Also, personal air sampling was performed in the Cleaning Room to assess operators' potential exposure to perchloroethylene during cleaning operations.

During this survey, I reviewed the Hazard Communication Program which has been developed and implemented. These results were submitted in a previous letter dated April 25, 1989. Ms. LuAnn Wignall, Personnel Manager, assisted me during my on-site survey.

This report documents the results of my industrial hygiene evaluation.

### SUMMARY

An Asbestos Exposure Control Program should be developed and implemented in the Brake Department to comply with OSHA's Asbestos Standard, 29CFR1910.1001. Operator exposure exceeded the OSHA Permissible Exposure Limit during Debonding, Disc Brake Riveting, and Clutch Disc drilling activities. Operator exposure exceeded the OSHA Action Level during Delining (Chopping) activities, and approached the OSHA Action Level during Receiving (Sorting) activities.

General area samples taken within the center of the Cleaning Room indicated the presence of perchloroethylene vapors. Actual operator exposure was below the applicable hygienic standard. The use of perchloroethylene as a degreasing solvent is to be phased out in the near future. Until this time, a Degreaser Maintenance/Inspection Program should be implemented to ensure that these vapor degreasers are maintained in proper operating condition.

NOVO20057

### CONCLUSIONS

Personal samples were taken for operators while performing Debonding, Delining (Chopping), Disc Brake Riveting, Clutch Disc Drilling, and Receiving (Sorting) operations. Eight-hour time-weighted average (8-hour TWA) exposures to asbestos fibers, for those operators sampled, were calculated based upon the concentration of fibers identified as asbestos in each sample by Transmission Electron Microscopy (TEM) analysis. The 8-hour TWA exposure to asbestos fibers for all operators sampled approached or exceeded the Action Level of 0.1 fibers per cubic centimeter of air.

The 8-hour TWA exposure to asbestos fibers for the Debonding, Disc Brake Riveting, and Clutch Disc Drilling operators sampled exceeded the Permissible Exposure Level of 0.2 fibers per cubic centimeter of air as established by OSHA Standard 1910.1001.

A summary of the results is as follows:

| <u>OPERATOR</u>      | <u>OPERATION</u>             | <u>8-HOUR TWA</u>                              |
|----------------------|------------------------------|------------------------------------------------|
| 1. Wayne Jackman     | Debonding                    | 0.2840 asbestos fibers/cubic centimeter of air |
| 2. Glen Richardson   | Deliner operator             | 0.1090 asbestos fibers/cubic centimeter of air |
| 3. Calvin Brindley   | Disc Brake riveter           | 0.3892 asbestos fibers/cubic centimeter of air |
| 4. Salvador Gonzalez | Clutch Disc driller          | 0.2623 asbestos fibers/cubic centimeter of air |
| 5. Tracy Hill        | Receiving (Sorting) operator | 0.0864 asbestos fibers/cubic centimeter of air |

As a result of these asbestos sampling results, a formal Asbestos Exposure Control Program should be developed and implemented in accordance with OSHA Standard 1910.1001.

The calculated 8-hour TWA exposure to perchloroethylene vapors, for the Cleaning Room operator sampled, was below the applicable hygienic standard. However, general area samples indicated the presence of perchloroethylene vapors within the Cleaning Room workplace.

Ms. Wignall indicated that perchloroethylene is to be phased out as a degreasing solvent, however, to reduce the potential for employee exposure to organic vapors during Degreasing operations, a formal Degreaser Maintenance/Inspection Program should be implemented to

ensure that these vapor degreasers are maintained in proper operating condition. Also, local exhaust ventilation may be required at these degreasers to move solvent vapors from the workplace at their source of generation.

#### RECOMMENDATIONS

IH 89-2 **IMPORTANT - ASBESTOS EXPOSURE CONTROL PROGRAM:** A formal asbestos exposure control program should be developed and implemented in accordance with OSHA Standard 1910.1001. This program should address the following provisions.

1. Feasible engineering controls and/or work practices should be developed and implemented to reduce and maintain employee exposure at or below the Permissible Exposure Limit. Engineering controls include isolation, local exhaust ventilation, process enclosures, dust collection systems, etc. Work practice controls include using wet methods, prohibiting the use of compressed air for cleaning activities, etc. Job rotation is not an acceptable means of employee exposure control for asbestos.
2. Personal protective equipment must be provided and used by employees until engineering controls or work practice controls can be effectively implemented. Personal protective equipment required should include:
  - a. Approved, cartridge-type respirators - which should be provided for and used by employees. Also, a formal respiratory protection program in accordance with OSHA Standard 1910.134 should be implemented immediately.
  - b. Special clothing including coveralls, head coverings, gloves, and foot coverings should be provided and used by employees immediately.
3. Warning signs should be provided and displayed in each area where airborne asbestos fiber concentrations are in excess of the Permissible Exposure Limit.
4. Affected employees should be notified in writing regarding the sampling results within 15 working days after receipt of these sampling results. This written notification should contain corrective action being taken by the employer to reduce employee exposure to at or below the Permissible Exposure Level wherever sampling results indicate

that the Permissible Exposure Limit has been exceeded.

5. A medical surveillance program should be implemented for all employees who are or will be exposed to airborne concentrations of asbestos fibers at or above the Action Level. Before an employee is assigned to an occupation where exposed to airborne concentration of asbestos, a preplacement medical examination should be provided. This examination should include, at a minimum, a medical and work history, a complete physical examination of all systems with emphasis on the respiratory system, cardiovascular system, and digestive tract, completion of the respiratory disease standardized questionnaire, a chest roentgenogram, pulmonary function tests to include forced vital capacity and forced expiratory volume at one second, and any additional tests deemed appropriate by the examining physician. Follow-up medical examinations should be provided on an annual basis.
6. Clean change rooms with shower facilities and isolated lockers should be provided for employees who work in areas where airborne asbestos fibers are present at or above the Permissible Exposure Limit. Also, laundering service for contaminated clothing should be made available to all employees who work in these regulated areas.
7. A training program for all employees who are exposed to airborne concentrations of asbestos at or above the Action Level should be developed and implemented. This training program should include provisions for discussing the health effects associated with asbestos exposure, the relationship between smoking and exposure to asbestos, the quantity and location of asbestos, the specific nature of operations which could result in exposure to asbestos, engineering controls and work practices associated with employee's job assignment, proper use of personal protective equipment, the medical surveillance program, and the provisions of OSHA Standard 1910.1001. This training program should be repeated annually. Records should be maintained on file to document all training activities.
8. Resampling to evaluate employee exposure to asbestos should be conducted at least semiannually. Also, resampling is suggested to ensure that any engineering controls implemented are effective in reducing employee exposure to asbestos.

These are minimum requirements of the OSHA Asbestos Standard. To ensure compliance with this legal standard, a copy of OSHA Standard 1910.1001 has been provided in Exhibit 4 of the Appendix to assist you with compliance.

- IH 89-3 VAPOR DEGREASER MAINTENANCE/INSPECTION PROGRAM: To ensure that all vapor degreasers are maintained in proper operating condition, a formal maintenance/inspection program should be developed and implemented. Scheduled inspections/maintenance items should include temperature controllers, condensation coils, and slot ventilation systems, if provided. These controls are essential in regulating and preventing degreaser solvent vapor from entering the operator's breathing zone. Records should be kept to document all vapor degreaser maintenance and inspection activities. Also, written procedures should be established regarding the cleaning and use of these vapor degreasers during normal work operations.

#### TECHNICAL DISCUSSION

##### I. Asbestos Sampling:

Air sampling was conducted in the Brake Department during typical brake remanufacturing operation. A personal sampling strategy was used during this industrial hygiene evaluation.

During personal sampling, both the pump and collecting medium are attached directly to the workers to sample the air to which they are exposed during the typical workday. This is the preferred method since it takes into consideration those times during the workday when employees are away from the areas of actual exposure.

The sampling apparatus consisted of battery powered air sampling pumps which draw air through a collecting medium at a predetermined flow rate. The flow rate was monitored by means of a rotameter calibrated prior to use against a primary standard mass flow meter. An open-faced, 25mm millipore filter was used to collect airborne fibers.

Details of sampling locations and sampling equipment are given in the first five Industrial Hygiene Survey Data Sheets contained in Exhibit 1 of the Appendix. Also provided in Exhibit 2 of the Appendix are two Industrial Hygiene Analysis Reports/Extension Sheets which present analytical data and test results.

The analytical method used by The Travelers Laboratory to determine fiber concentration was Phase Contrast Microscopy. This method is consistent with NIOSH 7400 Standards. The NIOSH 7400 method does not distinguish between fiber types

present. This method requires that all fibers meeting the set criteria be counted. However, due to the presence of airborne particulates in the workplace, many samples taken were overloaded with particulate matter. Fibers were observed on these filters but an accurate fiber count could not be performed. Thus, employees' eight-hour TWA exposures were not calculated using the total fiber count.

To determine actual asbestos content of the air samples, additional analysis by Transmission Electron Microscopy (TEM) was required. Transmission Electron Microscopy allows for identification of the type of fibers and the determination of quantity present. These samples were sent to an outside laboratory, Electron-Microscopy Service Laboratories, Incorporated, for TEM analysis. Results of this TEM analysis are provided in Exhibit 3 of the Appendix. The OSHA hygienic standard for asbestos exposure provides for a Permissible Exposure Limit (PEL) of 0.2 fibers per cubic centimeter of air and an Action Level of 0.1 fibers per cubic centimeter of air calculated as an eight-hour, time-weighted average.

The type of asbestos fibers present in each sample was determined to be chrysotile. Chrysotile is a common form of asbestos used in automotive brake shoes. In some cases, non-asbestosform fibers were also found. This is expected since many of the newer brake shoes are being constructed without asbestos-containing materials.

An eight-hour, time-weighted average concentration permits excursions above the hygienic standard provided they are compensated for by equal excursions below the hygienic standard during the workday. When analyzing the results obtained for these personal samples, eight-hour, time-weighted averages were calculated and compared to the applicable OSHA hygienic standard. The concentration of asbestos fibers greater than five microns in length in each sample was used to calculate the eight-hour, time-weighted average exposure for each employee sampled.

The following is a synopsis of the air sampling results by department:

A. Debonding:

In the debonding operation, the friction material bonded to the brake shoes is removed by a burn-in process. Special burn-in ovens have been installed for this operation. The presorted, incoming brake parts are dumped onto a work table within the Burn Room. These parts are then loaded into the burn-in ovens. After the burning process, the brake shoes are separated from the lining and the shoes are placed back into the original barrel for further processing. No local exhaust

ventilation system has been provided for the dump table within the Burn Room. On the day of sampling, only automotive brake shoes were being processed rather than truck brake shoes.

**B. Delining:**

In the delining (chopping) operation, the friction material bonded to the brake shoe is removed by a mechanical chopping operation using a special machine. This friction material contains asbestos fibers. Two chopping machines are operated in the delining operation. A local exhaust ventilation duct is provided near the point of operation, however, sampling results indicate that the ventilation arrangement is not adequate in removing asbestos fibers at its source. Cross currents induced by floor fans used in the area also can be considered as a contributing factor to the airborne concentration of asbestos fibers at this operation.

**C. Disc Brake Riveting:**

In this department, new pucks are riveted onto disc plates. Mechanical rivet presses are used to install these pucks. No local exhaust ventilation is provided in the vicinity of this operation.

**D. Clutch Disc Drilling:**

In this operation, holes are being drilled into facings on the clutch disc. A mechanical drill press is used for these drilling operations. A local exhaust ventilation duct is provided in the vicinity of the point of operation for this machinery. A ventilated enclosure for the point of operation or a Torit pump system may be more effective in removing the asbestos fibers at its source.

**E. Receiving (Sorting):**

Incoming, used brake shoes are sorted on a table by type and model. Shoes are sorted on this table and then deposited into barrels for further processing at various other stations. No local exhaust ventilation is provided for this sorting area.

**II. Perchloroethylene Sampling:**

Air sampling was conducted in the Cleaning Room during typical Remanufacturing operations. Both a personal and a general area sampling strategy was used during this industrial hygiene evaluation.

During general area sampling, the pump and collecting medium are positioned at a fixed location throughout the workday to determine the contaminant concentration within the workplace. If significant concentrations are found, then personal sampling would be required to assess actual employee exposure.

The sampling medium for perchloroethylene vapor was charcoal adsorption tubes.

Details of sampling locations and sampling equipment used are given in the sixth Industrial Hygiene Data Sheet contained in Exhibit 1 of the Appendix. Analytical data and test results and provided in the third Industrial Hygiene Extension Sheet provided in Exhibit 2 of the Appendix.

The applicable hygienic standard for perchloroethylene is 50 parts per million as established by the American Conference of Governmental Industrial Hygienists (ACGIH - TLV). The calculated eight-hour time-weighted average exposure for the Cleaning Room operator (Kenneth Ellis) was below this hygienic standard. However, general area samples were taken in the center of the Cleaning Room. Perchloroethylene vapor was detected in both these general area samples.

Part degreasing/cleaning is performed by use of vapor degreasers. The vapor degreasers are equipped with vapor condensation coils. Proper operation of these degreasers is essential in controlling employee potential exposures. To ensure that these degreasers are maintained in proper operating condition, a scheduled maintenance/inspection program should be established to review temperature controllers, condensation coils, and slot ventilation systems, if provided.

Limitations of the sampling performed should be noted. Samples taken during this survey are considered representative of the worker's exposure to the specific contaminants measured on the day of the sampling. Results may not adequately reflect exposures on other days, when changes in operations, production levels, atmospheric conditions, or other conditions might affect the airborne contaminant concentrations and exposure times.

ENGINEERING  
INDUSTRIAL HYGIENE SURVEY DATA SHEET (See instructions on reverse side)  
THE TRAVELERS INSURANCE COMPANIES  
HARTFORD, CONNECTICUT 06183 (Location 2-5-121)

PAGE 1 OF 6

|                                                       |  |                                                                                                                                                                                                                                       |  |                               |
|-------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|
| CUSTOMER<br>GENUINE PARTS CO., INC. - RAYLOC - PAYSON |  | LOCATION<br>700 North 500 East Payson, Utah 84651                                                                                                                                                                                     |  | SURVEY DATE<br>March 29, 1989 |
| POLICY NUMBER/CLAIM NUMBER<br>UB 168 T 3075           |  | BUSINESS UNIT<br><input checked="" type="checkbox"/> SAM/CAD <input type="checkbox"/> CAM <input type="checkbox"/> FIELD (AMG.) <input type="checkbox"/> CLAIM <input type="checkbox"/> CSSC <input type="checkbox"/> OTHER (EXPLAIN) |  |                               |

INSTRUMENTATION

|                               |            |                                                                                                    |                  |
|-------------------------------|------------|----------------------------------------------------------------------------------------------------|------------------|
| INSTRUMENT<br>HI FLOW SAMPLER |            | MANUFACTURER<br>GILIAN                                                                             | MODEL<br>HPS-113 |
| SERIAL NUMBER                 | TIC NUMBER | REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS                          |                  |
| 1017                          | 3-81       | Division management's request to assess employees' potential exposure to asbestos fibers in the    |                  |
| 10459                         | 181-85     | Brake Shoe Department during typical brake/clutch rebuild operations, such as receiving (sorting), |                  |
| 1994                          | 25-82      | delining (chopping), disc brake riveting, clutch disc drilling, and debonding. (Reduced sampling   |                  |
| 5879                          | 101-84     | time due to presence of dust which can interfere with fiber count).                                |                  |
| 1018                          | 4-81       |                                                                                                    |                  |

|                                                                 |                                                                |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| COLLECTION (SAMPLING) MEDIA<br>MILIPORE FILTER(MP) - OPEN FACED | ANALYSIS REQUIRED<br>ASBESTOS FIBERS (Including TEMS Analysis) |
|-----------------------------------------------------------------|----------------------------------------------------------------|

SAMPLE DATA

| TIC-<br>INST<br>NO. | SAMPLE<br>NUMBER<br>-MP | SAMPLING LOCATION<br>(INCLUDE EMPLOYEE'S NAME) | COLLECTION TIME |      | COLLECTION<br>DURATION<br>(MINS) | FLOW<br>RATE<br>LPM | SAMPLER<br>POSITION | NUMBER OF<br>PERSONS<br>IN AREA | EXPOSURE<br>TIME<br>(MINS) | SHIFT<br>DURATION<br>(MINS) | COMMENTS            |
|---------------------|-------------------------|------------------------------------------------|-----------------|------|----------------------------------|---------------------|---------------------|---------------------------------|----------------------------|-----------------------------|---------------------|
|                     |                         |                                                | Start           | End  |                                  |                     |                     |                                 |                            |                             |                     |
|                     | 246F                    | Control Blank #1                               |                 |      |                                  |                     |                     |                                 |                            |                             |                     |
| 3-81                | 448F                    | Wayne Jackman                                  | 0712            | 1006 | 174                              | 2.0                 | PS                  | 1                               | 460                        | 510                         | General ventilation |
|                     |                         | Debonding                                      |                 |      |                                  |                     |                     |                                 |                            |                             |                     |
| 3-81                | 446F                    | Wayne Jackman                                  | 1006            | 1156 | 110                              | 2.0                 | PS                  | 1                               | 460                        | 510                         | General ventilation |
|                     |                         | Debonding                                      |                 |      |                                  |                     |                     |                                 |                            |                             |                     |
| 3-81                | 445F                    | Wayne Jackman                                  | 1236            | 1417 | 101                              | 2.0                 | PS                  | 1                               | 460                        | 510                         | General ventilation |
|                     |                         | Debonding                                      |                 |      |                                  |                     |                     |                                 |                            |                             |                     |
| 3-81                | 360F                    | Wayne Jackman                                  | 1417            | 1530 | 73                               | 2.0                 | PS                  | 1                               | 460                        | 510                         | General ventilation |
|                     |                         | Debonding                                      |                 |      |                                  |                     |                     |                                 |                            |                             |                     |

|                          |                              |                                          |                        |
|--------------------------|------------------------------|------------------------------------------|------------------------|
| OFFICE<br>Salt Lake City | ENGINEER<br>J. E. David, III | SIGNATURE<br><i>Joseph E. David, III</i> | DATE SIGNED<br>3-31-89 |
|--------------------------|------------------------------|------------------------------------------|------------------------|

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INDUSTRY HYGIENE SURVEY DATA SHEET (See Instructions on reverse side)  
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HARTFORD, CONNECTICUT 06183 (Location 2-5-121)

PAGE 2 OF 6

|                                                       |                                                                                                                                                                                                                                       |                                                   |                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| CUSTOMER<br>GENUINE PARTS CO., INC. - RAYLOC - PAYSON |                                                                                                                                                                                                                                       | LOCATION<br>700 North 500 East Payson, Utah 84651 | SURVEY DATE<br>March 29, 1989 |
| POLICY NUMBER/CLAIM NUMBER<br>UB 168 T 3075           | BUSINESS UNIT<br><input checked="" type="checkbox"/> SAM/CAD <input type="checkbox"/> CAM <input type="checkbox"/> FIELD (AMG.) <input type="checkbox"/> CLAIM <input type="checkbox"/> CSSC <input type="checkbox"/> OTHER (EXPLAIN) |                                                   |                               |

INSTRUMENTATION

|                               |                        |                  |
|-------------------------------|------------------------|------------------|
| INSTRUMENT<br>HI FLOW SAMPLER | MANUFACTURER<br>GILIAN | MODEL<br>HFS-113 |
|-------------------------------|------------------------|------------------|

| SERIAL NUMBER | TIC NUMBER | REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS                          |
|---------------|------------|----------------------------------------------------------------------------------------------------|
| 1017          | 3-81       | Division management's request to assess employees' potential exposure to asbestos fibers in the    |
| 10459         | 181-85     | Brake Shoe Department during typical brake/clutch rebuild operations, such as receiving (sorting), |
| 1994          | 25-82      | delining (chopping), disc brake riveting, clutch disc drilling, and debonding. (Reduced sampling   |
| 5879          | 101-84     | time due to presence of dust which can interfere with fiber count).                                |
| 1018          | 4-81       |                                                                                                    |

|                                                                 |                                                                |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| COLLECTION (SAMPLING) MEDIA<br>MILIPORE FILTER(MP) - OPEN FACED | ANALYSIS REQUIRED<br>ASBESTOS FIBERS (Including TEMS Analysis) |
|-----------------------------------------------------------------|----------------------------------------------------------------|

SAMPLE DATA

| TIC INST NO. | SAMPLE NUMBER | SAMPLING LOCATION (INCLUDE EMPLOYEE'S NAME) | COLLECTION TIME<br>Start End | COLLECTION DURATION (MINS) | FLOW RATE LPM | SAMPLER POSITION | NUMBER OF PERSONS IN AREA | EXPOSURE TIME (MINS) | SHIFT DURATION (MINS) | COMMENTS                  |
|--------------|---------------|---------------------------------------------|------------------------------|----------------------------|---------------|------------------|---------------------------|----------------------|-----------------------|---------------------------|
| 181-85       | 362F          | Glen Richardson                             | 0716 1015                    | 179                        | 2.0           | PS               | 1                         | 460                  | 510                   | Local exhaust ventilation |
|              |               | Deliner (Chopper)                           |                              |                            |               |                  |                           |                      |                       |                           |
| 181-85       | 441F          | Glen Richardson                             | 1015 1152                    | 97                         | 2.0           | PS               | 1                         | 460                  | 510                   | Local exhaust ventilation |
|              |               | Deliner (Chopper)                           |                              |                            |               |                  |                           |                      |                       |                           |
| 181-85       | 444F          | Glen Richardson                             | 1240 1421                    | 101                        | 2.0           | PS               | 1                         | 460                  | 510                   | Local exhaust ventilation |
|              |               | Deliner (Chopper)                           |                              |                            |               |                  |                           |                      |                       |                           |
| 181-85       | 422F          | Glen Richardson                             | 1421 1527                    | 66                         | 2.0           | PS               | 1                         | 460                  | 510                   | Local exhaust ventilation |
|              |               | Deliner (Chopper)                           |                              |                            |               |                  |                           |                      |                       |                           |

|                          |                              |                                   |                        |
|--------------------------|------------------------------|-----------------------------------|------------------------|
| OFFICE<br>Salt Lake City | ENGINEER<br>J. E. David, III | SIGNATURE<br>Joseph E. David, III | DATE SIGNED<br>5-31-89 |
|--------------------------|------------------------------|-----------------------------------|------------------------|

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PAGE 3 OF 6

|                                                       |                                                                                                                                                                                                                                       |                                                   |                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| CUSTOMER<br>GENUINE PARTS CO., INC. - RAYLOC - PAYSON |                                                                                                                                                                                                                                       | LOCATION<br>700 North 500 East Payson, Utah 84651 | SURVEY DATE<br>March 29, 1989 |
| POLICY NUMBER/CLAIM NUMBER<br>UB 168 T 3075           | BUSINESS UNIT<br><input checked="" type="checkbox"/> SAM/CAD <input type="checkbox"/> CAM <input type="checkbox"/> FIELD (ANG.) <input type="checkbox"/> CLAIM <input type="checkbox"/> CSSC <input type="checkbox"/> OTHER (EXPLAIN) |                                                   |                               |

INSTRUMENTATION

|                               |                        |                  |
|-------------------------------|------------------------|------------------|
| INSTRUMENT<br>HI FLOW SAMPLER | MANUFACTURER<br>GILIAN | MODEL<br>HFS-113 |
|-------------------------------|------------------------|------------------|

| SERIAL NUMBER | TIC NUMBER | REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS                          |
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| 1018          | 4-81       |                                                                                                    |

|                                                                 |                                                                |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| COLLECTION (SAMPLING) MEDIA<br>MILIPORE FILTER(MP) - OPEN FACED | ANALYSIS REQUIRED<br>ASBESTOS FIBERS (Including TEMS Analysis) |
|-----------------------------------------------------------------|----------------------------------------------------------------|

SAMPLE DATA

| TIC INST NO. | SAMPLE NUMBER | SAMPLING LOCATION (INCLUDE EMPLOYEE'S NAME) | COLLECTION TIME |      | COLLECTION DURATION (MINS) | FLOW RATE LPM | SAMPLER POSITION | NUMBER OF PERSONS IN AREA | EXPOSURE TIME (MINS) | SHIFT DURATION (MINS) | COMMENTS            |
|--------------|---------------|---------------------------------------------|-----------------|------|----------------------------|---------------|------------------|---------------------------|----------------------|-----------------------|---------------------|
| 101-84       | 453F          | Calvin Brindley                             | 0718            | 1007 | 169                        | 2.0           | PS               | 8                         | 460                  | 510                   | General ventilation |
|              |               | Disc Brake Riveting                         |                 |      |                            |               |                  |                           |                      |                       |                     |
| 101-84       | 423F          | Calvin Brindley                             | 1007            | 1155 | 108                        | 2.0           | PS               | 8                         | 460                  | 510                   | General ventilation |
|              |               | Disc Brake Riveting                         |                 |      |                            |               |                  |                           |                      |                       |                     |
| 101-84       | 432F          | Calvin Brindley                             | 1242            | 1422 | 100                        | 2.0           | PS               | 8                         | 460                  | 510                   | General ventilation |
|              |               | Disc Brake Riveting                         |                 |      |                            |               |                  |                           |                      |                       |                     |
| 101-84       | 320F          | Calvin Brindley                             | 1422            | 1528 | 66                         | 2.0           | PS               | 8                         | 460                  | 510                   | General ventilation |
|              |               | Disc Brake Riveting                         |                 |      |                            |               |                  |                           |                      |                       |                     |

|                          |                              |                                          |                        |
|--------------------------|------------------------------|------------------------------------------|------------------------|
| OFFICE<br>Salt Lake City | ENGINEER<br>J. E. David, III | SIGNATURE<br><i>Joseph E. David, III</i> | DATE SIGNED<br>3-31-89 |
|--------------------------|------------------------------|------------------------------------------|------------------------|

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ENGINEER'

## INDUSTRIAL - HYGIENE SURVEY DATA SHEET (See Instructions on reverse side)

THE TRAVELERS INSURANCE COMPANIES  
HARTFORD, CONNECTICUT 06183

(Location 2-5-121)

PAGE 4 OF 6

|                                                       |                                                                                                                                                                                                                                       |                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| CUSTOMER<br>GENUINE PARTS CO., INC. - RAYLOC - PAYSON | LOCATION<br>700 North 500 East Payson, Utah 84651                                                                                                                                                                                     | SURVEY DATE<br>March 29, 1989 |
| POLICY NUMBER/CLAIM NUMBER<br>UB 168 T 3075           | BUSINESS UNIT<br><input checked="" type="checkbox"/> SAM/CAD <input type="checkbox"/> CAM <input type="checkbox"/> FIELD (AMG.) <input type="checkbox"/> CLAIM <input type="checkbox"/> CSBC <input type="checkbox"/> OTHER (EXPLAIN) |                               |

## INSTRUMENTATION

|                               |            |                                                                                                    |                  |
|-------------------------------|------------|----------------------------------------------------------------------------------------------------|------------------|
| INSTRUMENT<br>HI FLOW SAMPLER |            | MANUFACTURER<br>CILIAN                                                                             | MODEL<br>HFS-113 |
| SERIAL NUMBER                 | TIC NUMBER | REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS                          |                  |
| 1017                          | 3-81       | Division management's request to assess employees' potential exposure to asbestos fibers in the    |                  |
| 10459                         | 181-85     | Brake Shoe Department during typical brake/clutch rebuild operations, such as receiving (sorting), |                  |
| 1994                          | 25-82      | delining (chopping), disc brake riveting, clutch disc drilling, and debonding. (Reduced sampling   |                  |
| 5879                          | 101-84     | time due to presence of dust which can interfere with fiber count).                                |                  |
| 1018                          | 4-81       |                                                                                                    |                  |

COLLECTION (SAMPLING) MEDIA

MILIPORE FILTER(MP) - OPEN FACED

ANALYSIS REQUIRED

ASBESTOS FIBERS (Including TEMS Analysis)

## SAMPLE DATA

| TIC<br>INST<br>NO. | SAMPLE<br>NUMBER<br>MP | SAMPLING LOCATION<br>(INCLUDE EMPLOYEE'S NAME) | COLLECTION TIME |      | COLLECTION<br>DURATION<br>(MINS) | FLOW<br>RATE<br>LPM | SAMPLER<br>POSITION | NUMBER OF<br>PERSONS<br>IN AREA | EXPOSURE<br>TIME<br>(MINS) | SHIFT<br>DURATION<br>(MINS) | COMMENTS                  |
|--------------------|------------------------|------------------------------------------------|-----------------|------|----------------------------------|---------------------|---------------------|---------------------------------|----------------------------|-----------------------------|---------------------------|
|                    |                        |                                                | Start           | End  |                                  |                     |                     |                                 |                            |                             |                           |
| 4-81               | 440F                   | Salvador Gonzalez                              | 0714            | 1014 | 180                              | 2.0                 | PS                  | 1                               | 460                        | 510                         | Local exhaust ventilation |
|                    |                        | Clutch Disc Drilling                           |                 |      |                                  |                     |                     |                                 |                            |                             |                           |
| 4-81               | 439F                   | Salvador Gonzalez                              | 1014            | 1153 | 99                               | 2.0                 | PS                  | 1                               | 460                        | 510                         | Local exhaust ventilation |
|                    |                        | Clutch Disc Drilling                           |                 |      |                                  |                     |                     |                                 |                            |                             |                           |
| 4-81               | 442F                   | Salvador Gonzalez                              | 1240            | 1418 | 98                               | 2.0                 | PS                  | 1                               | 460                        | 510                         | Local exhaust ventilation |
|                    |                        | Clutch Disc Drilling                           |                 |      |                                  |                     |                     |                                 |                            |                             |                           |
| 4-81               | 331F                   | Salvador Gonzalez                              | 1418            | 1528 | 70                               | 2.0                 | PS                  | 1                               | 460                        | 510                         | Local exhaust ventilation |
|                    |                        | Clutch Disc Drilling                           |                 |      |                                  |                     |                     |                                 |                            |                             |                           |

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Salt Lake CityENGINEER  
J. E. David, IIISIGNATURE  
Joseph E. David, IIIDATE SIGNED  
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ENGINEERING  
INDUSTRY HYGIENE SURVEY DATA SHEET (See instructions on reverse side)  
THE TRAVELERS INSURANCE COMPANIES  
HARTFORD, CONNECTICUT 06183 (Location 2-5-121)

PAGE 5 OF 6

|                                                       |                                                                                                                                                                                                                                       |                                                   |                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| CUSTOMER<br>GENUINE PARTS CO., INC. - RAYLOC - PAYSON |                                                                                                                                                                                                                                       | LOCATION<br>700 North 500 East Payson, Utah 84651 | SURVEY DATE<br>March 29, 1989 |
| POLICY NUMBER/CLAIM NUMBER<br>UB 168 T 3075           | BUSINESS UNIT<br><input checked="" type="checkbox"/> SAM/CAD <input type="checkbox"/> CAM <input type="checkbox"/> FIELD (AMO.) <input type="checkbox"/> CLAIM <input type="checkbox"/> CSEC <input type="checkbox"/> OTHER (EXPLAIN) |                                                   |                               |

INSTRUMENTATION

|                               |                        |                  |
|-------------------------------|------------------------|------------------|
| INSTRUMENT<br>HI FLOW SAMPLER | MANUFACTURER<br>GILIAN | MODEL<br>HFS-113 |
|-------------------------------|------------------------|------------------|

| SERIAL NUMBER | TIC NUMBER | REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS                          |
|---------------|------------|----------------------------------------------------------------------------------------------------|
| 1017          | 3-81       | Division management's request to assess employees' potential exposure to asbestos fibers in the    |
| 10459         | 181-85     | Brake Shoe Department during typical brake/clutch rebuild operations, such as receiving (sorting), |
| 1994          | 25-82      | delining (chopping), disc brake riveting, clutch disc drilling, and debonding. (Reduced sampling   |
| 5879          | 101-84     | time due to presence of dust which can interfere with fiber count).                                |
| 1018          | 4-81       |                                                                                                    |

COLLECTION (SAMPLING) MEDIA  
MILIPORE FILTER(MF) - OPEN FACED

ANALYSIS REQUIRED  
ASBESTOS FIBERS (Including TEMS Analysis)

SAMPLE DATA

| TIC INST. NO. | SAMPLE NUMBER | SAMPLING LOCATION (INCLUDE EMPLOYEE'S NAME) | COLLECTION TIME |      | COLLECTION DURATION (MINS) | FLOW RATE LPM | SAMPLER POSITION | NUMBER OF PERSONS IN AREA | EXPOSURE TIME (MINS) | SHIFT DURATION (MINS) | COMMENTS            |
|---------------|---------------|---------------------------------------------|-----------------|------|----------------------------|---------------|------------------|---------------------------|----------------------|-----------------------|---------------------|
|               |               |                                             | Start           | End  |                            |               |                  |                           |                      |                       |                     |
| 25-82         | 450F          | Tracy Hill                                  | 0710            | 1010 | 180                        | 2.0           | PS               | 6                         | 460                  | 510                   | General ventilation |
|               |               | Receiving (Sorting)                         |                 |      |                            |               |                  |                           |                      |                       |                     |
| 25-82         | 449F          | Tracy Hill                                  | 1010            | 1150 | 100                        | 2.0           | PS               | 6                         | 460                  | 510                   | General ventilation |
|               |               | Receiving (Sorting)                         |                 |      |                            |               |                  |                           |                      |                       |                     |
| 25-82         | 452F          | Tracy Hill                                  | 1248            | 1416 | 88                         | 2.0           | PS               | 6                         | 460                  | 510                   | General ventilation |
|               |               | Receiving (Sorting)                         |                 |      |                            |               |                  |                           |                      |                       |                     |
| 25-82         | 332F          | Tracy Hill                                  | 1416            | 1527 | 71                         | 2.0           | PS               | 6                         | 460                  | 510                   | General ventilation |
|               |               | Receiving (Sorting)                         |                 |      |                            |               |                  |                           |                      |                       |                     |
|               | 363F          | Control Blank #2                            |                 |      |                            |               |                  |                           |                      |                       |                     |

|                          |                              |                                          |                        |
|--------------------------|------------------------------|------------------------------------------|------------------------|
| OFFICE<br>Salt Lake City | ENGINEER<br>J. E. David, III | SIGNATURE<br><i>Joseph E. David, III</i> | DATE SIGNED<br>5-31-89 |
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THE TRAVELERS INSURANCE COMPANIES  
HARTFORD, CONNECTICUT 06183 (Location 2-5-121)

PAGE 6 OF 6

|                                                       |                                                                                                                                                                                                                                       |                                                   |                               |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------|
| CUSTOMER<br>GENUINE PARTS CO., INC. - RAYLOC - PAYSON |                                                                                                                                                                                                                                       | LOCATION<br>700 North 500 East Payson, Utah 84651 | SURVEY DATE<br>March 29, 1989 |
| POLICY NUMBER/CLAIM NUMBER<br>UB 168 T 3075           | BUSINESS UNIT<br><input checked="" type="checkbox"/> SAM/CAD <input type="checkbox"/> CAM <input type="checkbox"/> FIELD (AMG.) <input type="checkbox"/> CLAIM <input type="checkbox"/> CSEC <input type="checkbox"/> OTHER (EXPLAIN) |                                                   |                               |

INSTRUMENTATION

|                                |                        |                  |
|--------------------------------|------------------------|------------------|
| INSTRUMENT<br>LOW FLOW SAMPLER | MANUFACTURER<br>GILIAN | MODEL<br>LFS-113 |
|--------------------------------|------------------------|------------------|

| SERIAL NUMBER | TIC NUMBER | REASON FOR SAMPLING - INCLUDE PROCESS OR OPERATION DESCRIPTION & CONTROLS                                            |
|---------------|------------|----------------------------------------------------------------------------------------------------------------------|
| 2739          | 16-87      | Assess employees' potential exposure to perchloroethylene vapors in the Cleaning (Disassembly) Room.                 |
| 1525          | 2-85       | Perchloroethylene is used as a degreasing solvent in a Vapor Degreasing Unit provided with vapor condensation coils. |
|               |            |                                                                                                                      |
|               |            |                                                                                                                      |

|                                              |                                        |
|----------------------------------------------|----------------------------------------|
| COLLECTION (SAMPLING) MEDIA<br>CHARCOAL TUBE | ANALYSIS REQUIRED<br>PERCHLOROETHYLENE |
|----------------------------------------------|----------------------------------------|

SAMPLE DATA

| TIC INST NO. | SAMPLE NUMBER | SAMPLING LOCATION (INCLUDE EMPLOYEE'S NAME)       | COLLECTION TIME |      | COLLECTION DURATION (MINS) | FLOW RATE CC/MIN | SAMPLER POSITION | NUMBER OF PERSONS IN AREA | EXPOSURE TIME (MINS) | SHIFT DURATION (MINS) | COMMENTS            |
|--------------|---------------|---------------------------------------------------|-----------------|------|----------------------------|------------------|------------------|---------------------------|----------------------|-----------------------|---------------------|
|              | CT-0          | Control Blank                                     | Start           | End  |                            |                  |                  |                           |                      |                       |                     |
| 16-87        | CT-1          | Kenneth Ellis<br>Cleaning Room Operator           | 1000            | 1157 | 117                        | 50               | PS               | 1                         | 460                  | 510                   | General ventilation |
| 16-87        | CT-2          | Kenneth Ellis<br>Cleaning Room Operator           | 1238            | 1400 | 82                         | 50               | PS               | 1                         | 460                  | 510                   | General ventilation |
| 16-87        | CT-3          | Kenneth Ellis<br>Cleaning Room Operator           | 1415            | 1525 | 60                         | 50               | PS               | 1                         | 460                  | 510                   | General ventilation |
| 2-85         | CT-4          | Center of Cleaning<br>Room at center sup-<br>port | 1001            | 1250 | 169                        | 50               | GA               | ~ 12                      | 460                  | 510                   | General ventilation |
| 2-85         | CT-5          | (Same as above)                                   | 1250            | 1530 | 160                        | 50               | GA               | ~ 12                      | 460                  | 510                   | General ventilation |

|                          |                              |                                          |                        |
|--------------------------|------------------------------|------------------------------------------|------------------------|
| OFFICE<br>Salt Lake City | ENGINEER<br>J. E. David, III | SIGNATURE<br><i>Joseph E. David, III</i> | DATE SIGNED<br>5-31-89 |
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Engineering  
INDUSTRIAL HYGIENE ANALYSIS REPORT

CHEMICAL AND ENVIRONMENTAL  
SERVICES UNIT

|                                           |                                         |                          |
|-------------------------------------------|-----------------------------------------|--------------------------|
| ANALYSIS NO.<br>890277 (25-32)            | CUSTOMER<br>Genuine Parts/Payloc-Payson | ADDRESS<br>Payson, Utah  |
| SAMPLE SENT BY<br>J. E. David             | DATE RECEIVED<br>4/6/89                 | DATE REPORTED<br>4/21/89 |
| ANALYST<br>TSS/JCC/JCC/TIC/MMC <i>ANS</i> |                                         |                          |

MATERIAL ANALYZED

MP Filters; Charcoal Tubes

SURVEY DATE: 3/29/89

| SAMPLE NUMBER | LOCATION (OR EMPLOYEE)              | TEST RESULTS      | TIME-WEIGHTED AVERAGE | HYGIENIC STANDARDS                                                  |
|---------------|-------------------------------------|-------------------|-----------------------|---------------------------------------------------------------------|
| 448F          | Wayne Jackman-debonding             | Total Fibers<br># |                       | Asbestos<br>OSHA PEL 0.2 fibers/cc<br>Action Level<br>0.1 fibers/cc |
| 446F          | Wayne Jackman-debonding             | Total Fibers<br># |                       |                                                                     |
| 445F          | Wayne Jackman-debonding             | Total Fibers<br># |                       |                                                                     |
| 360F          | Wayne Jackman-debonding             | Total Fibers<br># |                       |                                                                     |
| 362F          | Glen Richardson-deliner (chopper)   | Total Fibers<br># |                       |                                                                     |
| 441F          | Glen Richardson-deliner (chopper)   | Total Fibers<br># |                       |                                                                     |
| 444F          | Glen Richardson-deliner (chopper)   | Total Fibers<br># |                       |                                                                     |
| 422F          | Glen Richardson-deliner (chopper)   | Total Fibers<br># |                       |                                                                     |
| 53F           | Calvin Brindley-disc brake riveting | Total Fibers<br># |                       |                                                                     |

ANALYTICAL METHODS

Phase Contrast Microscopy/NIOSH 7400  
Gas Chromatography  
Gas Chromatography/Mass Spectrometry  
(GC/MS) (TSD-03)

SPECIAL NOTES

\*Sample overloaded; unable to perform accurate fiber count.

All samples have been sent out for Transmission Electron Microscopy (TEM) analysis.

NIOSH 7400 method does not distinguish between the fiber types present. This method requires that all fibers meeting the set criteria be counted.

Page 1 of 3

DEFINITION OF TERMS

- N.D.L.T. - "none detected reported as a less than value" is the limit of sensitivity of the sampling methodology.
- Time-Weighted Average (TWA) - The employee's exposure averaged over 8 hours per day or 40 hours per week using this equation:

$$TWA \text{ equivalent} = \frac{(C_1)(T_1) + (C_2)(T_2) + \dots + (C_n)(T_n)}{8 \text{ hrs}}$$

where C = concentration measured.  
T = duration, in hours, of exposure at concentration C.

The TWA evaluations of this report are based on the exposure time given on the corresponding "Industrial Hygiene Survey Data Sheet."

- Ceiling limit (designated by a "C" in front of the Hygienic Standard) - This is a maximum allowable concentration which should never be exceeded.
- Short Term exposure limit (TLV) - This limit defines the maximum concentration of an air contaminant to which an employee can be exposed for a short period of time.
- Hygienic standard is the applicable allowable level in air, such as the TLV or PEL (permissible exposure limit), and unless otherwise specified is the current ACGIH - threshold limit value (TLV).

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TRAVELERS INSURANCE COMPANIES  
HARTFORD, CONNECTICUT

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Engineering;  
INDUSTRIAL HYGIENE ANALYSIS REPORT EXTENSION SHEET

CHEMICAL AND ENVIRONMENTAL  
SERVICES UNIT

| ANALYSIS NO.<br>10277 |                                        | CUSTOMER<br>Genuine Parts/Payloc-Payson | ADDRESS<br>Payson, Utah  |                      |
|-----------------------|----------------------------------------|-----------------------------------------|--------------------------|----------------------|
| SAMPLE<br>NUMBER      | LOCATION (or employee)                 | TEST RESULTS                            | TIME-WEIGHTED<br>AVERAGE | HYGIENIC<br>STANDARD |
| 423F                  | Calvin Brindley-disc brake riveting    | Total Fibers<br>0.053 fibers/cc         |                          |                      |
| 432F                  | Calvin Brindley-disc brake riveting    | Total Fibers<br>"                       |                          |                      |
| 320F                  | Calvin Brindley-disc brake riveting    | Total Fibers<br>0.057 fibers/cc         |                          |                      |
| 440F                  | Salvador Gonzalez-clutch disc drilling | Total Fibers<br>"                       |                          |                      |
| 439F                  | Salvador Gonzalez-clutch disc drilling | Total Fibers<br>0.133 fibers/cc         |                          |                      |
| 442F                  | Salvador Gonzalez-clutch disc drilling | Total Fibers<br>0.151 fibers/cc         |                          |                      |
| 331F                  | Salvador Gonzalez-clutch disc drilling | Total Fibers<br>0.211 fibers/cc         |                          |                      |
| 450F                  | Tracy Hill-receiving (sorting)         | Total Fibers<br>"                       |                          |                      |
| 449F                  | Tracy Hill-receiving (sorting)         | Total Fibers<br>0.134 fibers/cc         |                          |                      |
| 32F                   | Tracy Hill-receiving (sorting)         | Total Fibers<br>0.083 fibers/cc         |                          |                      |
| 132F                  | Tracy Hill-receiving (sorting)         | Total Fibers<br>0.095 fibers/cc         |                          |                      |

SPECIAL NOTES

\*Please see note, page 1.

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TRAVELERS INSURANCE COMPANIES  
HARTFORD, CONNECTICUT

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Engineering  
INDUSTRIAL HYGIENE ANALYSIS REPORT EXTENSION SHEET

CHEMICAL AND ENVIRONMENTAL  
SERVICES UNIT

| ANALYSIS NO.<br>890277 |                                                                                                                        | CUSTOMER<br>Genuine Parts/Payloc-Payson | ADDRESS<br>Payson, Utah                      |                                                                                                                   |
|------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| SAMPLE<br>NUMBER       | LOCATION (or employee)                                                                                                 | TEST RESULTS                            | TIME-WEIGHTED<br>AVERAGE                     | HYGIENIC<br>STANDARD                                                                                              |
| CT-1                   | Kenneth Ellis-cleaning room operator                                                                                   | PCE<br>24.2 ppm<br><br>IPA *<br>Present |                                              | Perchloroethylene<br>(PCE)<br>50 ppm<br>STEL 200 ppm<br><br>Isopropyl Alcohol<br>(IPA)<br>400 ppm<br>STEL 500 ppm |
| CT-2                   | Kenneth Ellis-cleaning room operator                                                                                   | PCE<br>16.6 ppm<br><br>IPA *<br>Present |                                              |                                                                                                                   |
| CT-3                   | Kenneth Ellis-cleaning room operator                                                                                   | PCE<br>33.2 ppm<br><br>IPA *<br>Present | TWA (CT-1,<br>CT-2, CT-3)<br>PCE<br>22.9 ppm | —                                                                                                                 |
| CT-4                   | Center of cleaning room at center support                                                                              | PCE<br>6.90 ppm<br><br>IPA *<br>Present |                                              |                                                                                                                   |
| CT-5                   | Center of cleaning room at center support<br><br>The presence of isopropyl alcohol was<br>confirmed by GC/MS analysis. | PCE<br>16.6 ppm<br><br>IPA *<br>Present |                                              |                                                                                                                   |

SPECIAL NOTES

\*NIOSH method requires that IPA be sampled separately.

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