

MOTOR VEHICLE INFORMATION MANAGEMENT SYSTEM (MOVIMS) STANDARD OUTPUTS

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1. GENERAL

A. Purpose

1.01 This section contains descriptions and examples of some standard batch outputs from the Motor Vehicle Information Management System (MOVIMS). For information on the on-line report generation capabilities of the MOVIMS System utilizing OTSS, see the manual, *General Terminal Procedures For The MOVIMS User*.



This section is written on the basis that one foreman controls one or more garages at which vehicles are stored. If there is another arrangement, the reports can be formatted to allow for this difference.

1.02 The example reports in this section are indicative only, and the form and content can be changed upon request by the OTC MOVIMS Data Base Administrator (DBA).

B. References

1.03 Related information concerning MOVIMS is contained in the following publications:

SECTION	TITLE
720-610-100	Motor Vehicle Information Management System (MOVIMS), <i>General Description</i>
720-610-101	Motor Vehicle Information Management System (MOVIMS), <i>Input Fields and Procedures</i>
Manual	MOVIMS Reference Manual For Data Base Administrators
Manual	General Terminal Procedures For The MOVIMS User
Manual	Analysis Guide For MOVIMS Users

2. SYSTEM DESCRIPTION

2.01 The Motor Vehicle Information Management System is a computerized system for accumulating and measuring vehicle administrative and expense data. It will produce a series of output reports that can be used by line supervision and staff as a tool for controlling costs. Reports will be available on the following:

- (a) Individual vehicles
- (b) Vehicle groups
- (c) Vehicle and vehicle groups by location

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- (d) First through fifth level (line) management
- (e) Total Fleet
- (f) Administrative Organization and Groups

2.02 For the above groups, MOVIMS can provide the following kinds of information:

- (a) Monthly, year-to-date and cumulative reports on expenses per mile, per repair, per fleet, per average vehicle, etc.
- (b) Repairs per vehicle by repair code, monthly year-to-date and cumulatively, including number of incidences and cost
- (c) Reports summarized by vehicle attribute (ie, expenses by make, by transmission type, etc.)
- (d) Administrative reports for tracking vehicle location, lists of license and serial numbers, etc.

2.03 This system uses inputs prepared from the following:

- (a) Vehicle manufacturer information
- (b) Universal credit card
- (c) Fleet maintenance work orders
- (d) Odometer readings
- (e) Gas and oil purchases and disbursements (in-house or outside)
- (f) Vehicle, garage, supervisor, and company administrative information
- (g) Vouchers, time sheets, WE input, etc.

The responsibility for completing, entering, and changing the MOVIMS input forms will be determined by the MOVIMS DBA in each company.

2.04 Each company will have a DBA, who will be responsible for the following:

- (a) All form design (using the fields and columns in this section)

(b) Creation of all codes and identification numbers to be used with the fields in this section

(c) Loading the data base with all administrative and vehicle data

(d) Determining all levels of responsibility within the company concerning MOVIMS.

3. OUTPUTS

A. General

3.01 Motor Vehicle Information Management

System output reports in this section are examples to show format. Individually, MOVIMS DBAs can decide on the number and type of reports they desire and format them, except the DUMP and Mileage Input (IMIL) reports, to meet their specific needs. This is accomplished through the use of the Report Definition Files (RDF). A Sample RDF is presented in Fig. 1 (7 sheets). To illustrate the way in which these files affect the final outputs, each report example will show the specific portion of the report definition file which generated it. More detailed information on modifying outputs through the RDF program is available in the MOVIMS Reference Manual for Data Base Administrators which should be consulted before any attempt at generating reports.

3.02 The report examples that follow have been reduced in size for convenience from the 11-by-15-inch computer printout. They are shown on facing pages with the pertinent RDF portion and an explanation for each report page. The first and last line of each report page is the same. The first data on these lines usually indicates the entity for which the data is being generated. The title of the report is the next data entry. This is followed by the date on which the reports are being run. This date is user specified by the date given in the MOVIMS run command (MOVIMS Reference Manual for DBAs). It may or may not be the date the reports were actually generated. The last number on the top and bottom lines is the total page count of the report.

B. Universal Options

3.03 TITLES—TTLS: Title options at the start of the RDF allow the user to specify titles

which will appear on the reports for the hierarchical levels.

3.04 RESET OPTIONS—RSET: The reset options specify that certain information be initialized to zero *before* processing input data for that run. These options affect the actual data base and are used to ensure that all data values represent the correct time periods. They do not affect reports directly and should generally not be set for a report generating run. No change should be made to the Reset options in any RDF without the guidance and approval of the company MOVIMS DBA.

3.05 LINES PER PAGE—LINE: The Line option of the RDF allows the user to specify the number of lines of output to be printed on each report page. The number of lines specified include all heading and title information and the blank lines that precede or follow them. The standard number of lines per page is 60.

3.06 EXCLUSION OPTIONS—EXCL: The vehicle exclusion option allows the user to set two separate and unrelated options. The first is the vehicle count averaging flag. If this option is selected, cost per vehicle summarized expenses are based on the number of vehicles as calculated in the formula presented in the MOVIMS Administration Manual for DBAs.

3.07 The second line of this option allows the user to exclude certain groups of vehicles, as specified by their status code, from any of the reports. The expense, mileage for these vehicles, etc, will not be included on any of the reports. They will not be counted in vehicle counts, and will not be included on any administrative type reports (ie, sorts, etc.). The structured 702 report allows for the reporting of these otherwise excluded expenses at the end of each report, if requested.

C. 702 Expense Reports

3.08 STRUCTURED 702 REPORT—S702: Figures 2, 3, and 4 show portions of structured 702 Expense Reports with various options specified. Figures 2 and 3 specify nine accounts for year-to-date (YTD) data. Figure 4 specifies three accounts for monthly, year-to-date and cumulative data. Note how the Garage Level Data (F5414), shown by arrows, is included in the Foreman level (11010303). This Foreman level data (Fig. 3) is likewise included

in the Foreman Supervisor (110103) level. Figure 3 specifies 60 lines per page; Figure 4 specifies 50 lines per page as specified by the line option.

3.09 NON-STRUCTURED 702-REPORT—N702: Non-structured 702 Expense Reports are based upon the report time frame and the 702 accounts selected. Figures 5 and 6 show two examples of this report format.

D. Repair Code Reports

3.10 STRUCTURED REPAIR CODE REPORT—SRPC: There are structured Repair Code Reports, Fig. 7 and 8, for several formats. Repairs can be shown by major category and further specified by 50 subcodes of these major categories, Fig. 7. Another breakout, Fig. 8, can be major repair categories by time periods.

3.11 NON-STRUCTURED REPAIR CODE REPORT—NRPC: The non-structured repair code reports (Fig. 9 and 10) permit data on repairs by vehicle make, frequency and cost per repair, etc.

E. Mileage Reports

3.12 MILEAGE INPUT REPORT—IMIL: The structured Mileage Input Form Report is one of the available options. It provides a Mileage Input Form, Fig. 11, with blanks for completion to input new data.

3.13 STRUCTURED MILEAGE REPORT—SMIL: Also available is the existing Vehicle Mileage Report and the MPG Report, Fig. 12 and 13, according to the options taken.

3.14 NON-STRUCTURED MILEAGE REPORT—NMIL: This report provides data based on various vehicle and time period attributes as shown in Fig. 14.

F. Administrative Reports

3.15 SORT REPORTS—SORT: Administrative data is presented on the MOVIMS organization and vehicle fleet by Sort Reports. Sort Reports, Fig. 15, 16 and 17, present this data according to sort keys selected by the user up to a maximum of four keys for a batch run.

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3.16 ADCODE REPORTS—CODE: The Adcode Report, Fig. 18 presents administrative data limited by user selected vehicle criteria.

3.17 TOTAL VEHICLE DATA REPORT—DUMP: This report (Fig. 19) can be obtained by entering an "X" in the STATUS CODE

field on Input Form 01, on retirement of the vehicle, or via an on-line request. The MOVIMS will dump all available data on a particular vehicle. This report provides a complete history of the vehicle and is a valuable tool in making replacement decisions.

A Sample Report Definition File

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*** THESE ARE THE TITLE OPTIONS ***
LINE      OPTION
THE NEXT LINES INDICATE THE TITLES FOR A GIVEN LEVEL
 1  GARAGE      .      TITLE FOR LOCATION (MAX 12 CHAR)
 2  FOREMAN     .      TITLE FOR 1ST LINE (MAX 12 CHAR)
 3  FOREMAN SUPR.  TITLE FOR 2ND LINE (MAX 12 CHAR)
 4  THIRD LINE  .      TITLE FOR 3RD LINE (MAX 12 CHAR)
 5  FOURTH LINE .      TITLE FOR 4TH LINE (MAX 12 CHAR)
 6  COMPANY     .      TITLE FOR COMPANY  (MAX 12 CHAR)
*****

*** THESE ARE THE RESET OPTIONS ***
LINE      OPTION
 1 0 RESET THE MONTHLY 702 ACCTS TO 0 (RESET) YES-1,NO-0
 2 0 RESET THE YEAR TO DATE 702 ACCTS TO 0 (RESET) YES-1,NO-0
 3 0 RESET THE CUMULATIVE 702 ACCTS TO 0 (RESET) YES-1,NO-0
 4 0 RESET THE QUARTER MILEAGE TO 0 (RESET) YES-1,NO-0
 5 0 RESET THE YEAR TO DATE MILEAGE TO 0 (RESET) YES-1,NO-0
 6 0 RESET THE CUMULATIVE MILEAGE TO 0 (RESET) YES-1,NO-0
 7 0 RESET THE QUARTER REPAIR CODE TO 0 (RESET) YES-1,NO-0
 8 0 RESET THE YEAR TO DATE REPAIR CODE DATA TO 0 (RESET) YES-1,NO-0
 9 0 RESET THE CUMULATIVE REPAIR CODE DATA TO 0 (RESET) YES-1,NO-0
10 0 RESET VEHICLE MONTHLY GAS DATA TO 0 (RESET) YES-1,NO-0
11 0 RESET VEHICLE YEAR TO DATE GAS DATA TO 0 (RESET) YES-1,NO-0
12 0 RESET VEHICLE CUMULATIVE GAS DATA TO 0 (RESET) YES-1,NO-0
13 0 RESET THE VEHICLE GROUP MONTHLY DATA TO 0 (RESET) YES-1,NO-0
14 0 RESET THE VEHICLE GROUP YEAR TO DATE DATA TO 0 (RESET) YES-1,NO-0
15 0 RESET THE VEHICLE GROUP CUMULATIVE DATA TO 0 (RESET) YES-1,NO-0
16 0 RESET THE GARAGE MONTHLY DATA TO 0 (RESET) YES-1,NO-0
17 0 RESET THE GARAGE YEAR TO DATE DATA TO 0 (RESET) YES-1,NO-0
*****

*** THIS IS THE LINES PER PAGE OPTION ***
LINE      OPTION
 1 60 THE NUMBER OF LINES PER PAGE FOR THE REPORTS (TWO DIGIT NUMBER)
*****

```

Fig. 1—Sample Report Definition File (Sheet 1 of 7)

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*** THESE ARE THE VEHICLE EXCLUSION OPTIONS ***

LINE OPTION
 1 0 THE VEHICLE COUNT AVERAGING FLAG (AVERAGE) YES-1,NO-0
 2 0 R H THE EXCLUSION FLAG AND UP TO 3 STATUS'S TO BE EXCLUDED

*** THIS IS THE 702 STRUCTURED REPORT ***

LINE OPTION
 1 0 THE 702 STRUCTURED REPORT (GENERATE) YES-1,NO-0
 2 03 THE NUMBER OF ACCOUNTS TO BE LISTED (TWO-DIGIT NUMBER)
 THE NEXT LINE SPECIFIES THE ACCOUNTS TO BE LISTED
 3 115 012 013 (ACCT NOS)
 4 111 TIME PERIODS FOR VEHICLE COST (MON,YTD,CUM)
 5 000 TIME PERIODS FOR VEHICLE MILEAGE (MON,YTD,CUM)
 6 000 TIME PERIODS FOR GROUP AND TOTAL COST (MON,YTD,CUM)
 7 101 TIME PERIODS FOR GROUP AND TOTAL MILEAGE (MON,YTD,CUM)
 8 000 TIME PERIODS FOR GROUP COST PER VEHICLE (MON,YTD,CUM)
 9 11111 GARAGE REPORT (VEHICLE,GROUP,TOTALS,EXCLUDED \$,MECH TIME) YES-1,NO-0
 10 00010 1ST LINE REPORT (GAR GRP,GAR TOT,GROUP,TOTALS,EXCL \$)
 11 00010 2ND LINE REPORT (1ST GRP,1ST TOT,GROUP,TOTALS,EXCL \$)
 12 00010 3RD LINE REPORT (2ND GRP,@2ND TOT,GROUP,TOTALS,EXCL \$)
 13 00010 4TH LINE REPORT (3RD GRP,3RD TOT,GROUP,TOTALS,EXCL \$)
 14 00010 5TH LINE REPORT (4TH GRP,4TH TOT,GROUP,TOTALS,EXCL \$)
 15 000 REPORT 702 DOLLARS IN THOUSANDS (3RD,4TH,COMP)
 116 702 EXPENSE .(STRUCTURED 702 REPORT TITLE)
 THE NEXT TWO LINES ARE TITLES FOR THE LISTED ACCOUNTS.
 17 REPAIR GAS LUBE
 18 115 12 13

*** THIS IS THE STRUCTURED REPAIR CODE REPORT ***

FILE OPTION
 1 0 THE STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
 2 010 TIME REQUEST FOR THE REPORT - (QTR,YTD,CUM)
 3 1 THE INCLUSION OF SUBCODES AS PART OF THE REPORT (INCLUDE) YES-1,NO-0
 4 1 DOLLARS (1=IN+OUT,@2=OUT,3=IN,4=WARRANTY,5=IN+OUT+WAR,6=IN+OUT-WAR)
 5 0 CUMULATIVE VEHICLE MILEAGE REQUEST (YES-1,NO-0)
 6 1 CUMULATIVE COST/MILE REQUEST (YES-1,NO-0)
 7 111 GARAGE REPORT (VEHICLE,GROUP,TOTALS) YES-1,NO-0
 8 001 1ST LINE REPORT (GAR TOT,GROUP,TOTALS)
 9 001 2ND LINE REPORT (1ST TOT,GROUP,TOTALS)
 10 001 3RD LINE REPORT (2ND TOT,GROUP,TOTALS)
 11 001 4TH LINE REPORT (3RD TOT,GROUP,TOTALS)
 12 001 5TH LINE REPORT (4TH TOT,GROUP,TOTALS)
 13 000 REPORT DOLLARS IN THOUSANDS (3RD,4TH,COMP)
 14 REPAIR COSTS .(STRUCTURED REPAIR CODE REPORT TITLE)

Fig. 1—Sample Report Definition File (Sheet 2 of 7)

THE NEXT TWO LINES ARE TITLES FOR THE LISTED ACCOUNTS
 15 AXLE-FR.AXLE-RR.BRAKES .DR LINE.ELECTRC.
 16 ENGINE .FUEL .BODY .SPEC-EQ.MISCELL.

*** THIS IS THE INPUT MILEAGE REPORT ***

LINE OPTION
 1 0 THE MILEAGE INPUT FORM REPORT (GENERATE) YES-1,NO-0
 2 MILEAGE INPUT FORM .(INPUT FORM TITLE)

*** THIS IS THE STRUCTURED MILEAGE REPORT ***

LINE OPTION
 1 0 REPORTED MILES (0=NONE;1=Q;2=Q,YTD;3=Q,YTD,CUM;4=Q,YTD,CUM,AND MPG)
 2 1 THE VEHICLE MILEAGE REPORT REQUEST (YES-1,NO-0)
 3 0 THE INCLUSION OF ADCODES AS PART OF THE REPORT (YES-1,NO-0)
 4 0 THE GAS DISCREPANCY REPORT (GENERATE) YES-1,NO-0
 5 1 GROUP MILES BY GARAGE (YES-1,NO-0)
 6 1 GROUP MILES BY 1ST LINE (YES-1,NO-0)
 7 1 GROUP MILES BY 2ND LINE (YES-1,NO-0)
 8 1 GROUP MILES BY 3RD LINE (YES-1,NO-0)
 9 1 GROUP MILES BY 4TH LINE (YES-1,NO-0)
 10 1 GROUP MILES BY 5TH LINE (YES-1,NO-0)
 11 0 GROUP MILES BY 6TH LINE (YES-1,NO-0)
 12 GROUP MILEAGE .(STRUCTURED MILEAGE REPORT TITLES)

*** THIS IS THE NON-STRUCTURED MILEAGE REPORT ***

LINE OPTION
 1 0 THE NON-STRUCTURED MILEAGE REPORT (GENERATE) YES-1,NO-0
 2 11 LC .1-2 SORT FIELDS: (VALID KEYS= 01-12,DS,LC,AC,GW,LD,UW)
 3 3 REPORTED MILES (1=QTR/2=QTR,YTD;3=QTR,YTD,AND CUM)
 4 MILEAGE BY LABOR CLASS .(NON-STR. MILEAGE REPORT TITLE)

*** THIS IS THE SORT REPORT ***

LINE OPTION
 1 0 THE SORT REPORTS (GENERATE) YES-1,NO-0
 2 1 NUMBER OF SORT REPORTS (1 DIGIT NUMBER 1 TO 5)
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF SORT REPORT 1
 3 ID LI GR 04 LC RG
 4 ID .KEYS TO SORT THE 1ST REPORT BY (MAX 4)
 5 .VEHICLE SELECTION CRITERION FOR 1ST REPORT
 6 VEHICLE LIST .TITLE FOR 1ST SORT REPORT

Fig. 1—Sample Report Definition File (Sheet 3 of 7)

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THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF SORT REPORT 2
 7 ID LI KM YR SD IN RG
 8 LI .KEYS TO SORT THE 2ND REPORT BY (MAX 4)
 9 .VEHICLE SELECTION CRITERION FOR 2ND REPORT
 10 LICENSE LIST .TITLE FOR 2ND SORT REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF SORT REPORT 3
 11 ID GR
 12 GR ID .KEYS TO SORT THE 3RD REPORT BY (MAX 4)
 13 MAKE EQ FORD .VEHICLE SELECTION CRITERION FOR 3RD REPORT
 14 FORD VEHICLES .TITLE FOR 3RD SORT REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF SORT REPORT 4
 15 ID 01 02 03 04
 16 01 03 .KEYS TO SORT THE 4TH REPORT BY (MAX 4)
 17 .VEHICLE SELECTION CRITERION FOR 4TH REPORT
 18 ADCODE LIST .TITLE FOR 4TH SORT REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF SORT REPORT 5
 19 LI 12
 20 12 .KEYS TO SORT THE 5TH REPORT BY (MAX 4)
 21 .VEHICLE SELECTION CRITERION FOR 5TH REPORT
 22 SUMMONS LIST .TITLE FOR 5TH SORT REPORT
 THE NEXT 34 LINES INDICATE THE TITLES FOR A GIVEN KEY.
 THE TITLE IS BEFORE THE PERIOD & THE KEY IS AFTER IT
 23 TELCO VEH NO. ID TITLE FOR TEL. CO. VEHICLE NO. (MAX 12 CHAR)
 24 LICENSE . LI TITLE FOR LICENSE (MAX 19 CHAR)
 25 VEHICLE IDENT NO. SR TITLE FOR SERIAL NO. (MAX 16 CHAR)
 26 TITLE . TL TITLE FOR VEHICLE TITLE (MAX 10 CHAR)
 27 YEAR . YR TITLE FOR YEAR (MAX 6 CHAR)
 28 MAKE. MK TITLE FOR MAKE (MAX 4 CHAR)
 29 S DATE. SD TITLE FOR SERVICE DATE (MAX 6 CHAR)
 30 Q-MILE. QM TITLE FOR QUARTERLY MILEAGE (MAX 6 CHAR)
 31 INVEST. IN TITLE FOR INVESTED COST (MAX 6 CHAR)
 32 C-MILE. CM TITLE FOR CUMULATIVE MILEAGE (MAX 6 CHAR)
 33 DST. DS TITLE FOR DISTRICT (MAX 3 CHAR)
 34 LC. LC TITLE FOR LABOR CLASS (MAX 2 CHAR)
 35 ACCT . AC TITLE FOR ACCOUNT (MAX 6 CHAR)
 36 COLR. 01 TITLE FOR ADCODE 1 (MAX 4 CHAR)
 37 TRAN. 02 TITLE FOR ADCODE 2 (MAX 4 CHAR)
 38 CYL . 03 TITLE FOR ADCODE 3 (MAX 4 CHAR)
 39 BODY. 04 TITLE FOR ADCODE 4 (MAX 4 CHAR)
 40 UCC . 05 TITLE FOR ADCODE 5 (MAX 4 CHAR)
 41 . 06 TITLE FOR ADCODE 6 (MAX 4 CHAR)
 42 . 07 TITLE FOR ADCODE 7 (MAX 4 CHAR)
 43 . 08 TITLE FOR ADCODE 8 (MAX 4 CHAR)
 44 . 09 TITLE FOR ADCODE 9 (MAX 4 CHAR)
 45 . 10 TITLE FOR ADCODE 10 (MAX 4 CHAR)
 46 DIV . 11 TITLE FOR ADCODE 11 (MAX 4 CHAR)
 47 TKET. 12 TITLE FOR ADCODE 12 (MAX 4 CHAR)
 48 GN. VG TITLE FOR VEHICLE GROUP (MAX 2 CHAR)
 49 GARAG. GR TITLE FOR GARAGE (MAX 5 CHAR)

Fig. 1—Sample Report Definition File (Sheet 4 of 7)

50 S. ST TITLE FOR STATUS (MAX 1 CHAR)
 51 702 . S7 TITLE FOR SUM OF 702 ACCOUNTS (MAX 5 CHAR)
 52 GWV . GW TITLE FOR GROSS VEHICLE WEIGHT (MAX 6 CHAR)
 53 UVW . UW TITLE FOR UNLADEN WEIGHT (MAX 6 CHAR)
 54 LOAD . LD TITLE FOR LOAD (MAX 6 CHAR)
 55 FOREMAN.FR TITLE FOR FOREMAN NAME (MAX 8 CHAR)
 56 FRMSUP.FS TITLE FOR FOREMAN SUPER (MAX 6 CHAR)
 57 3RD. 3D TITLE FOR 3RD LINE (MAX 4 CHAR)
 58 4T. 4T TITLE FOR 4TH LINE (MAX 2 CHAR)
 59 .XX TITLE FOR BLANK COLUMN (MAX 4 CHAR)
 60 REGIS. RG TITLE FOR REGISTRATION COST (MAX 6 CHAR)

*** THIS IS THE ADCODE REPORT ***

LINE OPTION
 1 0 NUMBER OF ADCODE REPORTS (1 DIGIT NUMBER 0 - 5)
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF ADCODE REPORT 111
 2 ID LI
 3 1 4. VEHICLE SELECTION CRITERION FOR 1ST REPORT
 4 VEHICLE LIST .TITLE OF 1ST ADCODE REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF ADCODE REPORT 2
 5 LI ID
 6 1 4. VEHICLE SELECTION CRITERION FOR 2ND REPORT
 7 LICENSE LIST .TITLE OF 2ND ADCODE REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF ADCODE REPORT 3
 8 ID 01 02 03 04
 9 ADO1 EQ GR 1 4. VEHICLE SELECTION CRITERION FOR 3RD REPORT
 10 GREEN VEHICLES .TITLE OF 3RD ADCODE REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF ADCODE REPORT 4
 11 LI YR RG GR
 12 1 4. VEHICLE SELECTION CRITERION FOR 4TH REPORT
 13 REGISTRATION LIST .TITLE OF 4TH ADCODE REPORT
 THE NEXT LINE INDICATES WHAT IS IN EACH COL. OF ADCODE REPORT 5
 14 GR ID
 15 1 4. VEHICLE SELECTION CRITERION FOR 5TH REPORT
 16 GARAGE LIST .TITLE OF 5TH ADCODE REPORT
 THE NEXT 32 LINES INDICATE THE TITLES FOR A GIVEN KEY.
 THE TITLE IS BEFORE THE PERIOD & THE KEY IS AFTER IT
 17 TELCO VEH NO. ID TITLE FOR TEL. CO. VEHICLE NO. (MAX 12 CHAR)
 18 LICENSE . LI TITLE FOR LICENSE (MAX 10 CHAR)
 19 VEHICLE IDENT NO. SR TITLE FOR SERIAL NO. (MAX 16 CHAR)
 20 TITLE . TL TITLE FOR VEHICLE TITLE (MAX 10 CHAR)
 21 YEAR . YR TITLE FOR YEAR (MAX 6 CHAR)
 22 MAKE. MK TITLE FOR MAKE (MAX 4 CHAR)
 23 S DATE. SD TITLE FOR SERVICE DATE (MAX 6 CHAR)
 24 Q-MILE. QM TITLE FOR QUARTERLY MILEAGE (MAX 6 CHAR)
 25 Y-MILE. YM TITLE FOR YEARLY MILEAGE (MAX 6 CHAR)
 26 C-MILE. CM TITLE FOR CUMULATIVE MILEAGE (MAX 6 CHAR)
 27 DST. DS TITLE FOR DISTRICT (MAX 3 CHAR)
 28 LC. LC TITLE FOR LABOR CLASS (MAX 2 CHAR)
 29 ACCT . AC TITLE FOR ACCOUNT (MAX 6 CHAR)
 30 COLR. 01 TITLE FOR ADCODE 1 (MAX 4 CHAR)

Fig. 1—Sample Report Definition File (Sheet 5 of 7)

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31 TRAN. 02      TITLE FOR ADCODE 2      (MAX 4 CHAR)
32 CYL . 03     TITLE FOR ADCODE 3      (MAX 4 CHAR)
33 BODY. 04     TITLE FOR ADCODE 4      (MAX 4 CHAR)
34 UCC . 05     TITLE FOR ADCODE 5      (MAX 4 CHAR)
35 . 06        TITLE FOR ADCODE 6      (MAX 4 CHAR)
36 . 07        TITLE FOR ADCODE 7      (MAX 4 CHAR)
37 . 08        TITLE FOR ADCODE 8      (MAX 4 CHAR)
38 . 09        TITLE FOR ADCODE 9      (MAX 4 CHAR)
39 . 10        TITLE FOR ADCODE 10     (MAX 4 CHAR)
40 DIV . 11    TITLE FOR ADCODE 11     (MAX 4 CHAR)
41 TKET. 12    TITLE FOR ADCODE 12     (MAX 4 CHAR)
42 GN. VG      TITLE FOR VEHICLE GROUP (MAX 2 CHAR)
43 GARAG. GR   TITLE FOR GARAGE (MAX 5 CHAR)
44 GW . GW     TITLE FOR GROSS VEHICLE WEIGHT (MAX 6 CHAR)
45 UVM . UW    TITLE FOR UNLADEN WEIGHT (MAX 6 CHAR)
46 LOAD . LD   TITLE FOR LOAD (MAX 6 CHAR)
47 FOREMAN . FR TITLE FOR FOREMAN NAME (MAX 8 CHAR)
48 FMNSUP. FS  TITLE FOR FOREMAN SUPER (MAX 6 CHAR)
49 3RD . 3D    TITLE FOR 3RD LINE (MAX 4 CHAR)
50 4T. 4T     TITLE FOR 4TH LINE (MAX 2 CHAR)
51 . XX       TITLE FOR BLANK COLUMN (MAX 4 CHAR)
52 REGIS. RG  TITLE FOR REGISTRATION COST (MAX 6 CHAR)
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*** THIS IS THE DUMP REPORT ***

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LINE      OPTION
 1 . WHAT STATUS OF VEHICLES ARE TO BE DUMPED (CAN BE BLANK)
 2 . VEHICLE CLEARANCE REPORT .(DUMP REPORT TITLE)
*****

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*** THIS IS THE NON-STRUCTURED REPAIR CODE REPORT ***

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LINE      OPTION
 1 0 NON-STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
 2 3 TIME FRAME FOR THE REPORT, (1 = QUAR, 2 = YTD, 3 = CUM)
 3 1 DOLLARS: (1=IN+OUT;2=OUT;3=IN;4=WARRANTY;5=IN+OUT+WAR;6=IN+OUT-WAR)
 4 2 THE FREQ TO BE REPORTED; (1=PER VEH,2=TOTAL)
 5 2 THE COST TO BE REPORTED; (1=PER REPAIR, 2=TOTAL)
 6 MK YR VG .1-3 SORT FIELDS:(VALID=MK,01-12,FS,FR,GR,DS,LC,AC,GW,LD,UW,YG,YR)
THE NEXT LINE INDICATES TITLES FOR THE LISTED ACCOUNTS
 7 AXLE-FRAXLE-RR BRAKESDR LINEELECTRC ENGINE FUEL BODY SPEC-EQMISCELL
 8 . REPAIRS BY MAKE .(NON-STR REPAIR CODE REPORT TITLE)
*****

```

*** THIS IS THE NON-STRUCTURED 702 REPORT ***

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LINE      OPTION
 1 0 NUMBER OF NON-STRUCTURED 702 REPORTS (0 TO 3)
 2 3 TIME FRAME FOR THE REPORT (1=MON,2=YTD,3=CUM)
 3 1 COST PER VEHICLE REQUEST (YES-1,NO-0)
 4 03 THE NUMBER OF 702 ACCOUNTS TO BE LISTED (TWO DIGIT NUMBER)

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Fig. 1—Sample Report Definition File (Sheet 6 of 7)

THE NEXT LINE SPECIFIES THE ACCOUNTS TO BE LISTED

5 115 012 013

THE NEXT TWO LINES ARE TITLES FOR THE LISTED ACCOUNTS

6 REPAIR GAS LUBE

7 115 12 13

8 MK YR VG .1ST SORT FIELDS:(VALID=01-12,FS,FR,GR,LC,AC,MK,LD,GW,UW,VG,YR)

9 EXPENSE BY MAKE .(1ST REPORT TITLE)

10 VG YR 02 .2ND SORT FIELDS:(VALID=01-12,FS,FR,GR,DA,LC,AC,MK,LD,GW,UW,VG,YR)

11 EXPENSE BY TRANSMISSION .(2ND REPORT TITLE)

12 LC VG .3RD SORT FIELDS:(VALID=01-12,FS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)

13 EXPENSE BY LABOR CLASS .(3RD REPORT TITLE)

*** THESE ARE THE TITLES FOR THE SUMMONS SYSTEM ***

LINE OPTION

1 SUMMONS . TITLE FOR SUMMONS (MAX 12 CHAR)

2 SESS. TITLE FOR SESSION (MAX 4 CHAR)

3 CHARGE BACK. TITLE FOR CBC (MAX 12 CHAR)

4 PAY AUTH. TITLE FOR AUTHORITY TO PAY (MAX 8 CHAR)

5 ORIG. TITLE FOR ORIGIN (MAX 4 CHAR)

6 FINE . TITLE FOR FINE (MAX 8 CHAR)

7 CREDIT .. TITLE FOR CREDIT (MAX 8 CHAR)

8 AMT DUE . TITLE FOR AMOUNT DUE (MAX 8 CHAR)

9 ISSUED . TITLE FOR DATE ISSUED (MAX 8 CHAR)

10 DATE PD . TITLE FOR DATE PAID (MAX 8 CHAR)

11 RECEIVED. TITLE FOR DATE RECEIVED (MAX 8 CHAR)

12 DREP. TITLE FOR DELINQUENT REPLY (MAX 4 CHAR)

13 RESP. TITLE FOR RESPONSIBILITY TO PAY (MAX 4 CHAR)

14 VIOL. TITLE FOR VIOLATION (MAX 4 CHAR)

15 SPR1. TITLE FOR SPARE 1 (MAX 4 CHAR)

16 SPR2 TITLE FOR SPARE 2 (MAX 4 CHAR)

17 SPR3. TITLE FOR SPARE 3 (MAX 4 CHAR)

18 SPR4. TITLE FOR SPARE 4 (MAX 4 CHAR)

19 SPR5. TITLE FOR SPARE 5 (MAX 4 CHAR)

Fig. 1—Sample Report Definition File (Sheet 7 of 7)

This is the RDF portion for the 702 Structured Report (S702).
 Nine account numbers (ACCT NOS) were selected by the
 user for the report data headings. Other user selections are
 indicated by yes-1, or no-0, as shown in the 010 TIME
 PERIODS where year-to-date (YTD) data was selected.

```

1 THE 702 STRUCTURED REPORT (GENERATE) YES-1,NO-0
  9 THE NUMBER OF ACCOUNTS TO BE LISTED (TWO DIGIT NUMBER)
012 013 114 115 215 315 016 020 021      (ACCT NOS)
010 TIME PERIODS FOR VEHICLE COST (MON,YTD,CUM)
010 TIME PERIODS FOR VEHICLE MILEAGE (MON,YTD,CUM)
010 TIME PERIODS FOR GROUP AND TOTAL COST (MON,YTD,CUM)
010 TIME PERIODS FOR GROUP AND TOTAL MILEAGE (MON,YTD,CUM)
000 TIME PERIODS FOR GROUP COST PER VEHICLE (MON,YTD,CUM)
11111 GARAGE REPORT (VEHICLE,GROUP,TOTALS,EXCLUDED $,MECH TIME) YES-1,NO-0
11111 1ST LINE REPORT (GAR GRP,GAR TOT,GROUP,TOTALS,EXCL $)
11111 2ND LINE REPORT (1ST GRP,1ST TOT,GROUP,TOTALS,EXCL $)
11111 3RD LINE REPORT (2ND GRP,2ND TOT,GROUP,TOTALS,EXCL $)
00000 4TH LINE REPORT (3RD GRP,3RD TOT,GROUP,TOTALS,EXCL $)
00000 5TH LINE REPORT (4TH GRP,4TH TOT,GROUP,TOTALS,EXCL $)
711 REPORT 702 DOLLARS IN THOUSANDS (3RD,4TH,COMP)
      702 EXPENSE REPORT . (STRUCTURED 702 REPORT TITLE)
GAS   LOBE   TIRES REPAIR ACCID SP EQPTAPPEAR LICENSE MISC   OTHER
12    13    14    115    215    315    16    20    21   EXPENSE
  
```

The first line of the S702 indicates the entity, Garage F5414, for the data being generated. This is a standard line as described in 3.02. The first data given is for individual vehicles by vehicle number. Vehicle 90-01251-673 (arrows) is the only one in the 90 group. The summary GROUP NUM, therefore, has the same data; but for the 93 group, there are three vehicles to summarize. The time period is for year-to-date as shown under the Line Code (LC) column.

GARAGE		P5414		702 EXPENSE REPORT							DATE 11/20/78		PAGE 1	RUN 11/20/78		123
VEHICLE NUMBER	MILEAGE	TOTAL DOLLARS	L C	GAS 12	LUBE 13	TIRES 14	REPAIR 115	ACCID 215	SP 315	EQPT 16	APPEAR 20	LICENSE 21	MISC 21	OTHER EXPENSE		
→ 90-01251-673	8361	529	Y	418	40	14	51	0	0	6	0	0	0	0		
93-00164-176	4177	288	Y	121	42	0	105	0	0	6	14	0	0	0		
93-01167-174	3843	207	Y	112	3	0	86	0	0	6	0	0	0	0		
93-03132-278	2380	103	Y	40	0	0	63	0	0	0	0	0	0	0		
GROUP NUMBER	MILEAGE	TOTAL DOLLARS	L C	GAS 12	LUBE 13	TIRES 14	REPAIR 115	ACCID 215	SP 315	EQPT 16	APPEAR 20	LICENSE 21	MISC 21	OTHER EXPENSE		
→ 90	1	8361	Y	418	40	14	51	0	0	6	0	0	0	0		
93	3	10400	Y	233	45	0	254	0	0	12	14	0	0	0		
TOTAL	4	1087	Y	651	85	14	305	0	0	18	14	0	0	0		

TOTAL DOLLARS	L C	GAS 12	LUBE 13	TIRES 14	REPAIR 115	ACCID 215	SP 315	EQPT 16	APPEAR 20	LICENSE 21	MISC 21	OTHER EXPENSE
TOTAL FOR ALL VEHICLES IN DATABASE	28 H	28	0	0	0	0	0	0	0	0	0	0
	1087 Y	651	85	14	305	0	0	18	14	0	0	0

TOTAL HOURS	L C	GAS 12	LUBE 13	TIRES 14	REPAIR 115	ACCID 215	SP 315	EQPT 16	APPEAR 20	LICENSE 21	MISC 21	OTHER EXPENSE
GARAGE P5414 MECHANICS HOURS												
TOTAL	0.0 H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	23.00 Y	0.0	4.00	1.00	17.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0

GARAGE P5414 702 EXPENSE REPORT DATE 11/20/78 PAGE 1 RUN 11/20/78 123

Fig. 2—702 Structured Report (S702) Garage Data

This is the RDF portion showing the remaining user selections for the second and third line reports. At the bottom of the printout is space for the user to enter individual wording for the S702 title. The column headings (ACCT NOS) selected at the top are specified on the last two lines as a user option.

```

1 THE 702 STRUCTURED REPORT (GENERATE) YES-1,NO-0
9 THE NUMBER OF ACCOUNTS TO BE LISTED (TWO DIGIT NUMBER)
012 013 114 115 215 315 016 020 021 (ACCT NOS)
010 TIME PERIODS FOR VEHICLE COST (MON,YTD,CUM)
010 TIME PERIODS FOR VEHICLE MILEAGE (MON,YTD,CUM)
010 TIME PERIODS FOR GROUP AND TOTAL COST (MON,YTD,CUM)
010 TIME PERIODS FOR GROUP AND TOTAL MILEAGE (MON,YTD,CUM)
000 TIME PERIODS FOR GROUP COST PER VEHICLE (MON,YTD,CUM)
11111 GARAGE REPORT (VEHICLE,GROUP,TOTALS,EXCLUDED $,MECH TIME) YES-1,NO-0
11111 1ST LINE REPORT (GAR GRP,GAR TOT,GROUP,TOTALS,EXCL $)
11111 2ND LINE REPORT (1ST GRP,1ST TOT,GROUP,TOTALS,EXCL $)
11111 3RD LINE REPORT (2ND GRP,2ND TOT,GROUP,TOTALS,EXCL $)
00000 4TH LINE REPORT (3RD GRP,3RD TOT,GROUP,TOTALS,EXCL $)
00000 5TH LINE REPORT (4TH GRP,4TH TOT,GROUP,TOTALS,EXCL $)
111 REPORT 702 DOLLARS IN THOUSANDS (3RD,4TH,COMP)
      702 EXPENSE REPORT . (STRUCTURED 702 REPORT TITLE)
GAS   LUBE   TIRES REPAIR  ACCID SP EQPTAPPEAR LICENSE MISC  OTHER
12    13    14      115    215   315    16    20    21   EXPENSE

```

The remainder of the S702 shows summary data for the foreman and foreman supervisor. A complete report is not shown because a foreman may have summary data from several garages and a foreman supervisor summary data of several foreman. But for reference, the arrow again shows vehicle group 90 with the same data as shown on Fig. 2 because there is only one vehicle in the group for the foreman. At the foreman supervisor level 5 vehicles are combined in the 90 group coming from other garages.

Options taken for three accounts are selected in this portion of the RDF.

```

1 THE 702 STRUCTURED REPORT (GENERATE) YES-1,NO-0
03 THE NUMBER OF ACCOUNTS TO BE LISTED (TWO DIGIT NUMBER)
114 115 016 (ACCT NOS)
111 TIME PERIODS FOR VEHICLE COST (MON,YTD,CUM)
111 TIME PERIODS FOR VEHICLE MILEAGE (MON,YTD,CUM)
111 TIME PERIODS FOR GROUP AND TOTAL COST (MON,YTD,CUM)
000 TIME PERIODS FOR GROUP AND TOTAL MILEAGE (MON,YTD,CUM)
111 TIME PERIODS FOR GROUP COST PER VEHICLE (MON,YTD,CUM)
11111 GARAGE REPORT (VEHICLE,GROUP,TOTALS,EXCLUDED $,MECH TIME) YES-1,NO-0
11111 1ST LINE REPORT (GAR GRP,GAR TOT,GROUP,TOTALS,EXCL $)
11111 2ND LINE REPORT (1ST GRP,1ST TOT,GROUP,TOTALS,EXCL $)
11111 3RD LINE REPORT (2ND GRP,2ND TOT,GROUP,TOTALS,EXCL $)
00000 4TH LINE REPORT (3RD GRP,3RD TOT,GROUP,TOTALS,EXCL $)
00000 5TH LINE REPORT (4TH GRP,4TH TOT,GROUP,TOTALS,EXCL $)
000 REPORT 702 DOLLARS IN THOUSANDS (3RD,4TH,COMP)
      702 EXPENSE REPORT . (STRUCTURED 702 REPORT TITLE)
TIRES REPAIR APPEAR OTHER
 14   115   16   EXPENSE

```

Here is another run of an S702 Report where only three accounts were selected by the user—tires, repair and appearance. Note that the OTHER EXPENSE column always contains the total of all 702 subaccounts not specifically listed in the other columns.

GARAGE P5414

702 EXPENSE REPORT

DATE 11/22/78 PAGE 1

RUN 11/22/78 244

VEHICLE NUMBER	MILEAGE	TOTAL DOLLARS	L C	TIRES 14	REPAIR 115	APPEAR 16	OTHER EXPENSE
90-01251-673	2548	461	M	7	365	0	89
	8361	990	Y	21	416	6	547
	56593	2338	C	382	741	45	1170
93-00164-176	1257	38	M	0	0	0	38
	4177	326	Y	0	105	6	215
	16159	929	C	11	274	22	622
93-01167-174	1232	193	M	84	49	0	60
	3843	400	Y	84	135	6	175
	16000	974	C	163	398	29	384
93-03132-278	1120	21	M	0	0	0	21
	2380	124	Y	0	63	0	61
	2380	124	C	0	63	0	61

GROUP NUMBER	NUM OF VEH	AVERAGE COST/VEH	TOTAL DOLLARS	L C	TIRES 14	REPAIR 115	APPEAR 16	OTHER EXPENSE
90	1	461	461	M	7	365	0	89
		990	990	Y	21	416	6	547
		2338	2338	C	382	741	45	1170
91	0		0	M	0	0	0	0
			0	Y	0	0	0	0
			142	C	0	0	0	142
93	3	84	252	M	84	49	0	119
		270	810	Y	84	303	12	411
		566	1699	C	174	735	51	739
TOTAL	4	178	713	M	91	414	0	208
		450	1800	Y	105	719	18	958
		1044	4179	C	556	1476	96	2051
TOTAL FOR ALL VEHICLES IN DATABASE			713	M	91	414	0	208
			1800	Y	105	719	18	958

TOTAL HOURS L C TIRES 14 REPAIR 115 APPEAR 16 OTHER EXPENSE

GARAGE P5414

MECHANICS HOURS

TOTAL	29.25	M	2.50	24.25	0.0	2.50
	52.25	Y	3.50	41.25	0.0	7.50

GARAGE P5414

702 EXPENSE REPORT

DATE 11/22/78 PAGE 2

RUN 11/22/78 245

Fig. 4—702 Structured Report

This is the RDF portion for the report. The sort fields and expense codes are explained in the the DBA Manual.

```

1 NUMBER OF NON-STRUCTURED 702 REPORTS (0 TO 3)
3 TIME FRAME FOR THE REPORT: (1=MON,2=YTD,3=CUM)
0 COST PER VEHICLE REQUEST (YES-1,NO-0)
03 THE NUMBER OF 702 ACCOUNTS TO BE LISTED (TWO DIGIT NUMBER)
115 215 315
   115   215   315   OTHER
EXPENSEEXPENSEEXPENSEEXPENSE
YR VG MK .1ST SORT FIELDS: (VALID=01-12,PS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)
REPAIR EXPENSE REPORT . (1ST REPORT TITLE)
   .2ND SORT FIELDS: (VALID=01-12,PS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)
   . (2ND REPORT TITLE)
   .3RD SORT FIELDS: (VALID=01-12,PS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)
   . (3RD REPORT TITLE)

```

The 702 Non-Structured Report (N702) shown here has three expense accounts selected by the user and sorted by vehicle year, vehicle make and group. Since cost per vehicle was not requested, average cost per vehicle is not shown.

YEAR 77 REPAIR EXPENSE REPORT DATE 11/20/78 PAGE 1 RUN 11/20/78 18

CNT	115 EXPENSE	215 EXPENSE	315 EXPENSE	OTHER EXPENSE
GROUP 11				
DODG 148	20262	1610	52	107249
FORD 2	400	0	0	588
1 1	165	0	0	1284
151	20827	1610	52	109121
GROUP 32				
FORD 11	1476	9	1795	9529
11	1476	9	1795	9529
GROUP 93				
CHEV 2	221	0	0	617
FORD 1	32	0	0	366
3	253	0	0	983
GROUP 99				
BUICK 1	43	0	0	1102
CHEV 1	142	0	0	972
2	185	0	0	2074

YEAR 77 REPAIR EXPENSE REPORT DATE 11/20/78 PAGE 1 RUN 11/20/78 18

Fig. 5—702 Non-Structured Report (Repair Expense Report)

This is the RDF portion for
the report.

```

1 NUMBER OF NON-STRUCTURED 702 REPORTS (0 TO 3)
1 TIME FRAME FOR THE REPORT: (1=MON,2=YTD,3=CUM)
1 COST PER VEHICLE REQUEST (YES-1,NO-0)
02 THE NUMBER OF 702 ACCOUNTS TO BE LISTED (TWO DIGIT NUMBER)
012 013                                     (ACCT NOS)
   GAS      OIL
   12      13
   DS .1ST SORT FIELDS: (VALID=01-12,FS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)
   GAS AND OIL EXPENSE BY DISTRICT . (1ST REPORT TITLE)
   .2ND SORT FIELDS: (VALID=01-12,FS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)
   . (2ND REPORT TITLE)
   .3RD SORT FIELDS: (VALID=01-12,FS,FR,GR,DS,LC,AC,MK,LD,GW,UW,VG,YR)
   . (3RD REPORT TITLE)

```

Here is another N702 Report sorted only by district as indicated in the first column. This report shows vehicle count (CNT), and cost per vehicle (CPV) for a monthly gas and oil expense. Note that while only accounts 12 and 13 were requested, the total of all other accounts is printed in the last column. Note also that the cost per vehicle includes the sum of all three accounts, not just the two requested.

GAS AND OIL EXPENSE BY DISTRICT

DATE 11/22/78 PAGE 1

RUN 11/22/78 1

	CNT	CPV	GAS 12	OIL 13	
	1	0.0	0	0	0
SSF	200	147.8	14899	1061	13609
00F	138	99.7	7998	612	5144
11F	134	111.1	8073	316	6502
12F	234	223.7	22335	1644	28364
13F	237	112.3	17693	602	8326
14F	281	106.6	17406	561	11993
15F	191	66.2	8209	375	4054
21	1	0.0	0	0	0
51	1	69.0	40	1	28
51F	230	111.3	12047	1202	12345
53F	320	99.7	23211	805	7889
54F	502	122.1	15804	3820	41669
55F	288	175.1	26024	1249	23159
56F	283	185.5	24655	1573	26260
	3041	132.0	198394	13821	189342

GAS AND OIL EXPENSE BY DISTRICT

DATE 11/22/78 PAGE 1

RUN 11/22/78 1

Fig. 6—702 Non-Structured Report (Gas and Oil Expense By District)

This is the RDF portion for the Structured Repair Code Report (SRPC). The user selections are for cumulative data (001), inside and outside costs included in reported dollars, and the inclusion of subcodes.

```

1 THE STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
001 TIME REQUEST FOR THE REPORT - (QTR,YTD,CUM)
1 THE INCLUSION OF SUBCODES AS PART OF THE REPORT (INCLUDE) YES-1,NO-0
1 DOLLARS (1=IN+OUT,2=OUT,3=IN,4=WARRANTY,5=IN+OUT+WAR,6=IN+OUT-WAR)
0 CUMULATIVE VEHICLE MILEAGE REQUEST (YES-1,NO-0)
0 CUMULATIVE COST/MILE REQUEST (YES-1,NO-0)
111 GARAGE REPORT (VEHICLE,GROUP,TOTALS) YES-1,NO-0
111 1ST LINE REPORT (GAR TOT,GROUP,TOTALS)
111 2ND LINE REPORT (1ST TOT,GROUP,TOTALS)
111 3RD LINE REPORT (2ND TOT,GROUP,TOTALS)
000 4TH LINE REPORT (3RD TOT,GROUP,TOTALS)
000 5TH LINE REPORT (4TH TOT,GROUP,TOTALS)
111 REPORT DOLLARS IN THOUSANDS (3RD,4TH,COMP)
REPAIR COST AND FREQUENCY BY SUBCODE .(STRUCTURED REPAIR CODE REPORT TITLE)
F-AXLE .R-AXLE .BRAKES .DR LINE.ELECTEC.
ENGINE . FUEL . BODY .SP EQP . MISC .

```

The first and last lines of this report page are standard as described in 3.02. Note that the title wording was specified by the user on the third from last line on the RDF portion. The column headings are selected on the last two lines. This report presents total cost and frequency of occurrence for each vehicle by subcodes. These subcodes are defined in Section 720-610-101. Two of the vehicles in the 93 groups are omitted here for space reasons as shown by breaklines, but the group summary data is shown for all three vehicles in the middle of the page. The garage totals for 4 vehicles are shown in the bottom set of data.

GARAGE F5414 REPAIR COST AND FREQUENCY BY SUBCODE DATE 11/20/78 PAGE 1 RUN 11/20/78

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VEHICLE NUMBER	F-AXLE NUM	F-AXLE COST	R-AXLE NUM	R-AXLE COST	BRAKES NUM	BRAKES COST	DR LINE NUM	DR LINE COST	ELECTRC NUM	ELECTRC COST	ENGINE NUM	ENGINE COST	FUEL NUM	FUEL COST	BODY NUM	BODY COST	SP EQP NUM	SP EQP COST	MISC NUM	MISC COST
90-01251-673	3	64	0	0	1	24	0	0	1	9	1	25	0	0	4	120	0	0	34	637
SUBCODE 1	2	21	0	0	0	0	0	0	1	9	1	25	0	0	0	0	0	0	17	29
SUBCODE 2	0	0	0	0	1	24	0	0	0	0	0	0	0	0	2	69	0	0	4	204
SUBCODE 3	1	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	362
SUBCODE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	43	0	0	1	15
SUBCODE 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0
93-00164-176	1	25	0	0	0	0	0	0	2	45	0	0	0	0	2	12	0	0	23	332
SUBCODE 1	1	25	0	0	0	0	0	0	1	7	0	0	0	0	1	4	0	0	7	22
SUBCODE 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	7	239
SUBCODE 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
SUBCODE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	30
SUBCODE 5	0	0	0	0	0	0	0	0	1	38	0	0	0	0	0	0	0	0	2	20

L F-AXLE R-AXLE BRAKES DR LINE ELECTRC ENGINE FUEL BODY SP EQP MISC
C NUM COST NUM COST

GARAGE F5414 GROUP TOTALS

GROUP NUM	VEHICLES	F-AXLE NUM	F-AXLE COST	R-AXLE NUM	R-AXLE COST	BRAKES NUM	BRAKES COST	DR LINE NUM	DR LINE COST	ELECTRC NUM	ELECTRC COST	ENGINE NUM	ENGINE COST	FUEL NUM	FUEL COST	BODY NUM	BODY COST	SP EQP NUM	SP EQP COST	MISC NUM	MISC COST
GROUP NUM 90	1 VEHICLES																				
T 3		64	0	0	1	24	0	0	1	9	1	25	0	0	4	120	0	0	34	637	
1 2		21	0	0	0	0	0	0	1	9	1	25	0	0	0	0	0	0	17	29	
2 0		0	0	0	1	24	0	0	0	0	0	0	0	0	2	69	0	0	4	204	
3 1		43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	362	
4 0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	43	0	0	1	15	
5 0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	
GROUP NUM 93	3 VEHICLES																				
T 2		46	0	0	0	0	0	0	6	171	3	58	0	0	4	47	0	0	56	637	
1 2		46	0	0	0	0	0	0	1	7	3	58	0	0	1	4	0	0	23	47	
2 0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	12	438	
3 0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	67	
4 0		0	0	0	0	0	0	0	2	71	0	0	0	0	2	35	0	0	1	30	
5 0		0	0	0	0	0	0	0	3	93	0	0	0	0	0	0	0	0	2	20	

GARAGE F5414

VEHICLES	F-AXLE NUM	F-AXLE COST	R-AXLE NUM	R-AXLE COST	BRAKES NUM	BRAKES COST	DR LINE NUM	DR LINE COST	ELECTRC NUM	ELECTRC COST	ENGINE NUM	ENGINE COST	FUEL NUM	FUEL COST	BODY NUM	BODY COST	SP EQP NUM	SP EQP COST	MISC NUM	MISC COST
4 VEHICLES																				
T 5		110	0	0	1	24	0	0	7	180	4	83	0	0	8	167	0	0	90	1274
1 4		67	0	0	0	0	0	0	2	16	4	83	0	0	1	4	0	0	40	76
2 0		0	0	0	1	24	0	0	0	0	0	0	0	0	3	77	0	0	16	642
3 1		43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	429
4 0		0	0	0	0	0	0	0	2	71	0	0	0	0	3	78	0	0	2	45
5 0		0	0	0	0	0	0	0	3	93	0	0	0	0	1	8	0	0	2	20

FOREMAN 11010303

REPAIR COST AND FREQUENCY BY SUBCODE

DATE 11/20/78 PAGE 1

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Fig. 7—Structured Repair Code Report (Sheet 1 of 2)

This is the same RDF file and options as specified on the previous page.

```

1 THE STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
001 TIME REQUEST FOR THE REPORT - (QTR,YTD,CUM)
1 THE INCLUSION OF SUBCODES AS PART OF THE REPORT (INCLUDE) YES-1,NO-0
1 DOLLARS (1=IN+OUT,2=OUT,3=IN,4=WARRANTY,5=IN+OUT+WAR,6=IN+OUT-WAR)
0 CUMULATIVE VEHICLE MILEAGE REQUEST (YES-1,NO-0)
0 CUMULATIVE COST/MILE REQUEST (YES-1,NO-0)
111 GARAGE REPORT (VEHICLE,GROUP,TOTALS) YES-1,NO-0
111 1ST LINE REPORT (GAR TOT,GROUP,TOTALS)
111 2ND LINE REPORT (1ST TOT,GROUP,TOTALS)
111 3RD LINE REPORT (2ND TOT,GROUP,TOTALS)
000 4TH LINE REPORT (3RD TOT,GROUP,TOTALS)
000 5TH LINE REPORT (4TH TOT,GROUP,TOTALS)
111 REPORT DOLLARS IN THOUSANDS (3RD,4TH,COMP)
REPAIR COST AND FREQUENCY BY SUBCODE .(STRUCTURED REPAIR CODE REPORT TITLE)
F-AXLE .R-AXLE .BRAKES .DR LINE.ELECTEC.
ENGINE . FUEL . BODY .SP EQP . MISC .

```

This second page (Sheet 2) of the report shows the foreman level report. It includes the totals from page 1 for garage F5414, but these are combined with other garages under Foreman 11010303. Group totals of all combined vehicles under the Foreman are also shown, and finally summary totals for all vehicles under the foreman are presented. Some data has been omitted from this report in order to show samples of each type of data all on one page.

FOREMAN 11010303 REPAIR COST AND FREQUENCY BY SUBCODE DATE 11/20/78 PAGE 1 RUN 11/20/78 250

L	F-AXLE	R-AXLE	BRAKES		DR LINE		ELECTRC		ENGINE		FUEL		BODY		SP EQP		MISC			
C	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST		
GARAGE F5414																				
4 VEHICLES																				
T	5	110	0	0	1	24	0	0	7	180	4	83	0	0	8	167	0	0	90	1274
1	4	67	0	0	0	0	0	0	2	16	4	83	0	0	1	4	0	0	40	76
2	0	0	0	0	1	24	0	0	0	0	0	0	0	3	77	0	0	16	642	
3	1	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	429	
4	0	0	0	0	0	0	0	0	2	71	0	0	0	3	78	0	0	2	45	
5	0	0	0	0	0	0	0	0	3	93	0	0	0	1	8	0	0	2	20	

GARAGE F5412																				
49 VEHICLES																				
T	45	2139	15	2280	94	3562	62	1679	218	4910	165	4537	83	1747	151	5225	65	3004	2356	34226
1	27	882	6	1519	12	195	0	0	132	2228	93	2044	33	748	60	1004	10	334	1273	8553
2	3	133	0	0	56	2450	1	7	5	150	30	895	15	207	73	3437	6	153	250	10893
3	8	634	1	111	9	204	40	1138	14	502	25	418	33	781	2	202	8	246	377	10725
4	7	478	5	456	10	544	21	534	16	447	12	572	0	0	15	574	0	0	14	386
5	0	0	3	194	3	133	0	0	51	1583	2	582	2	11	1	8	41	2271	98	1261

FOREMAN 11010303 GROUP TOTALS

GROUP NUM 10																				
1 VEHICLES																				
T	2	92	0	0	1	34	2	26	3	30	3	49	0	0	1	14	0	0	50	585
1	1	4	0	0	0	0	0	0	2	21	3	49	0	0	1	14	0	0	30	161
2	1	88	0	0	1	34	0	0	0	0	0	0	0	0	0	0	0	0	7	303
3	0	0	0	0	0	0	2	26	0	0	0	0	0	0	0	0	0	0	4	84
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0

GROUP NUM 11																				
38 VEHICLES																				
T	25	1108	7	591	58	1832	39	1114	138	2642	109	2532	53	1043	113	3669	0	0	1727	24592
1	13	380	0	0	9	128	0	0	89	1089	63	1276	19	429	49	856	0	0	952	6685
2	2	45	0	0	34	1350	1	7	3	71	20	654	7	79	55	2599	0	0	185	7864
3	5	334	1	111	9	204	19	609	8	264	17	288	25	524	0	0	0	0	274	6968
4	5	337	5	456	4	132	19	498	12	300	7	292	0	0	8	206	0	0	4	66
5	0	0	1	24	0	0	0	0	26	918	0	0	2	11	1	8	0	0	70	935

GROUP NUM 20																				
3 VEHICLES																				
T	2	118	0	0	9	452	7	162	16	285	6	75	5	146	7	110	3	93	167	2754
1	1	14	0	0	1	25	0	0	13	237	6	75	2	68	3	60	0	0	87	553
2	0	0	0	0	3	139	0	0	0	0	0	0	2	31	4	50	0	0	12	634
3	1	104	0	0	0	0	6	134	0	0	0	0	1	47	0	0	0	0	27	1209
4	0	0	0	0	4	276	1	28	1	8	0	0	0	0	0	0	0	0	1	80
5	0	0	0	0	0	0	0	0	2	40	0	0	0	0	0	0	3	93	13	162

FOREMAN 11010303 TOTALS

53 VEHICLES																				
T	50	2249	15	2280	95	3586	62	1679	225	5090	169	4620	83	1747	159	5392	65	3004	2446	35500
1	31	949	6	1519	12	195	0	0	134	2244	97	2127	33	748	61	1008	10	334	1313	8629
2	3	133	0	0	57	2474	1	7	5	150	30	895	15	207	76	3514	6	153	266	11535
3	9	677	1	111	9	204	40	1138	14	502	25	418	33	781	2	202	8	246	383	11154
4	7	478	5	456	10	544	21	534	18	518	12	572	0	0	18	652	0	0	16	431
5	0	0	3	194	3	133	0	0	54	1676	2	582	2	11	2	16	41	2271	100	1281

FOREMAN 11010303 REPAIR COST AND FREQUENCY BY SUBCODE DATE 11/20/78 PAGE 2 RUN 11/20/78 251

Fig. 7—Structured Repair Code Report (Sheet 2 of 2)

In this Structured Repair Code Report (SRPC) example all three time periods were selected as well as cumulative mileage and cost per mile.

```

1 THE STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
111 TIME REQUEST FOR THE REPORT - (QTR,YTD,CUM)
1 THE INCLUSION OF SUBCODES AS PART OF THE REPORT (INCLUDE) YES-1,NO-0
1 DOLLARS (1=IN+OUT,2=OUT,3=IN,4=WARRANTY,5=IN+OUT+WAR,6=IN+OUT-WAR)
1 CUMULATIVE VEHICLE MILEAGE REQUEST (YES-1,NO-0)
1 CUMULATIVE COST/MILE REQUEST (YES-1,NO-0)
111 GARAGE REPORT (VEHICLE,GROUP,TOTALS) YES-1,NO-0
111 1ST LINE REPORT (GAR TOT,GROUP,TOTALS)
111 2ND LINE REPORT (1ST TOT,GROUP,TOTALS)
111 3RD LINE REPORT (2ND TOT,GROUP,TOTALS)
000 4TH LINE REPORT (3RD TOT,GROUP,TOTALS)
000 5TH LINE REPORT (4TH TOT,GROUP,TOTALS)
111 REPORT DOLLARS IN THOUSANDS (3RD,4TH,COMP)
REPAIR COST AND FREQUENCY BY SUBCODE .(STRUCTURED REPAIR CODE REPORT TITLE)
F-AXLE .R-AXLE .BRAKES .DR LINE.ELECTEC.
ENGINE . FUEL . BODY .SP EQP . MISC .

```

In this report both inclusion of subcodes and all three time periods were requested. These are mutually exclusive options and the option for three time periods takes precedence. The figures shown for numbers of repairs and cost are therefore major repair code totals. Notice also that since cost per mile is based on cumulative miles, this figure is meaningful only for vehicles that have been on the data base since their purchase. Reports for foreman level and above are in the same format as the garage level summary report and are not shown here.

GARAGE		REPAIR COST AND FREQUENCY BY SUBGROUP																			DATE	PAGE	RUN	222
F5414																					11/22/78	1	11/22/78	
VEHICLE NUMBER	AXLE-FR NUM	AXLE-RR NUM	BRAKES NUM	DR LINE NUM	ELECTRC NUM	ENGINE NUM	FUEL NUM	BODY NUM	SPEC-EQ NUM	MISCELL NUM	TOTAL MILEAGE	COST/MILE												
90-01251-673											56593	0.02												
QTR	0	0	0	1	38	0	0	1	28	1	104	0	0	3	137	0	0	3	81					
YTD	0	0	0	1	38	0	0	2	37	1	104	0	0	3	137	0	0	5	160					
CUM	3	64	0	2	62	0	0	2	37	2	129	0	0	7	257	0	0	37	718					
93-00164-176											16159	0.03												
QTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
YTD	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0	4	151					
CUM	1	25	0	0	0	0	0	2	45	0	0	0	0	2	12	0	0	23	332					
93-01167-174											16000	0.04												
QTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	156					
YTD	0	0	0	0	0	0	0	0	0	0	0	0	0	1	28	0	0	5	214					
CUM	1	21	0	0	0	0	0	3	63	3	58	0	0	2	35	0	0	37	461					
93-03132-278											2380	0.03												
QTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
YTD	0	0	0	0	0	0	0	1	63	0	0	0	0	0	0	0	0	0	0					
CUM	0	0	0	0	0	0	0	1	63	0	0	0	0	0	0	0	0	0	0					

L	AXLE-FR	AXLE-RR	BRAKES	DR LINE	ELECTRC	ENGINE	FUEL	BODY	SPEC-EQ	MISCELL										
C	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST	NUM	COST								
GARAGE F5414 GROUP TOTALS																				
GROUP NUM 90 1 VEHICLES																				
Q	0	0	0	0	1	38	0	0	1	28	1	104	0	0	3	137	0	0	3	81
Y	0	0	0	0	1	38	0	0	2	37	1	104	0	0	3	137	0	0	5	160
C	3	64	0	0	2	62	0	0	2	37	2	129	0	0	7	257	0	0	37	718
GROUP NUM 93 3 VEHICLES																				
Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	156
Y	0	0	0	0	0	0	0	0	2	70	0	0	0	0	1	28	0	0	9	365
C	2	46	0	0	0	0	0	0	6	171	3	58	0	0	4	47	0	0	60	793
GARAGE F5414 TOTALS																				
4 VEHICLES																				
Q	0	0	0	0	1	38	0	0	1	28	1	104	0	0	3	137	0	0	7	237
Y	0	0	0	0	1	38	0	0	4	107	1	104	0	0	4	165	0	0	14	525
C	5	110	0	0	2	62	0	0	8	208	5	187	0	0	11	304	0	0	97	1511

GARAGE F5414 REPAIR COST AND FREQUENCY BY SUBGROUP DATE 11/22/78 PAGE 1 RUN 11/22/78 222

Fig. 8—Structured Repair Code Report

This NRPC portion of the RDF shows year-to-date (2 = YTD) data selected by dollars in and out, per vehicle, per repair.

```

1 NON-STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
2 TIME FRAME FOR THE REPORT, (1 = QUAR, 2=YTD, 3=CUM)
1 DOLLARS: (1=IN+OUT; 2=OUT; 3=IN; 4=WARRANTY; 5=IN+OUT+WAR; 6=IN+OUT-WAR)
1 THE PRQ TO BE REPORTED; (1=PER VEH, 2=TOTAL)
1 THE COST TO BE REPORTED; (1=PER REPAIR, 2=TOTAL)
MK YR VG .1-3 SORT FIELDS: (VALID=MK,01-12,PS,PR,GR,DS,LC,AC,GW,LD,UW,VG,YR)
F-AXLE R-AXLE BRAKES DR LINEELECTR ENGINE FUEL BODY SP EQP MISC
COST PER VEHICLE AND PER REPAIR BY MAKE . (NON-STR REPAIR CODE REPORT TITLE)

```

This NRPC report shows frequency per vehicle (FPV) and cost per repair (CPR) for vehicles according to make, year and group. The number of vehicles per group (CNT) cost per mile (CPM) and total cost per vehicles per line (CPV) are also shown. CPM in this report is meaningless, since the CPM calculation always uses cumulative miles, and we are only monitoring year-to-date costs. In many cases, we show a significant cost per repair with a repair per vehicle of zero. This is because the total of repairs divided by the number of vehicles was less than 0.5 and was rounded to zero.

MAKE CHEV COST PER VEHICLE AND PER REPAIR BY MAKE DATE 11/20/78 PAGE 2 RUN 11/20/78 5

YEAR	CMT	CPH	CPV	P-AXLE		R-AXLE		BRAKES		DR LINE		ELECTR		ENGINE		FUEL		BODY		SP EQP		MISC	
				FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR	FPV	CPR
YEAR 73																							
10	1	0.0	562.0	1	11	1	16	2	18	2	29	2	6	0	0	2	15	2	6	0	0	9	42
90	1	0.0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
99	14	0.0	338.8	0	5	0	0	0	32	0	13	1	26	2	27	0	31	2	28	0	0	6	21
	16	0.0	331.6	0	7	0	16	0	28	0	16	1	24	1	27	0	28	2	27	0	0	6	23
YEAR 74																							
10	19	0.0	609.3	0	29	0	21	0	18	0	74	1	18	3	38	1	26	1	49	0	0	17	13
11	99	0.0	474.7	0	20	0	30	0	24	0	30	1	21	2	32	1	23	1	30	0	11	15	15
20	18	0.0	474.1	0	17	0	20	1	20	1	37	1	20	2	34	1	13	0	42	0	17	10	19
93	100	0.0	373.3	0	37	0	14	0	28	0	29	1	31	1	22	1	26	1	36	0	31	9	18
99	1	0.0	866.0	1	26	1	33	0	0	2	14	1	59	0	0	0	0	10	63	0	0	7	12
	237	0.0	444.3	0	26	0	25	0	25	0	35	1	24	2	30	1	24	1	35	0	19	12	16
YEAR 76																							
20	27	0.0	428.4	0	10	0	31	0	11	0	31	2	17	1	19	1	10	0	28	0	4	15	18
93	23	0.0	252.3	0	9	0	0	0	40	0	42	1	26	0	15	0	10	1	46	0	38	7	14
	50	0.0	347.4	0	10	0	31	0	25	0	35	1	20	1	18	0	10	0	37	0	21	11	17
YEAR 77																							
93	2	0.0	75.5	0	0	0	0	0	0	0	0	1	15	0	0	0	0	0	5	0	0	5	10
99	1	0.0	158.0	2	14	0	0	0	0	1	14	1	5	1	21	0	0	1	9	0	0	9	9
	3	0.0	103.0	0	14	0	0	0	0	0	14	1	12	0	21	0	0	0	7	0	0	6	9
YEAR 78																							
10	20	0.0	28.5	0	0	0	0	0	0	0	23	0	5	0	0	0	0	0	15	0	0	1	13
11	116	0.0	43.4	0	36	0	8	0	10	0	11	0	12	0	13	0	20	0	16	0	0	2	10
21	9	0.0	124.1	0	9	0	0	0	28	0	17	0	29	0	0	0	4	0	14	0	38	6	12
32	4	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	1	0.2	226.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	75
93	48	0.0	79.0	0	38	0	33	0	36	0	16	0	15	0	12	0	22	0	148	0	0	2	15
	198	0.0	54.2	0	35	0	15	0	22	0	16	0	16	0	12	0	20	0	39	0	38	2	12

MAKE CHEV COST PER VEHICLE AND PER REPAIR BY MAKE DATE 11/20/78 PAGE 2 RUN 11/20/78 5

Fig. 9—Non-Structured Repair Code Report

This NRPC section is identical to the previous one except for options on the cost and frequency lines.

```
1 NON-STRUCTURED REPAIR CODE REPORT (GENERATE) YES-1,NO-0
3 TIME FRAME FOR THE REPORT, (1 = QUAR, 2=YTD, 3=CUM)
1 DOLLARS: (1=IN+OUT;2=OUT;3=IN;4=WARRANTY;5=IN+OUT+WAR;6=IN+OUT-WAR)
2 THE FREQ TO BE REPORTED; (1=PER VEH,2=TOTAL)
2 THE COST TO BE REPORTED; (1=PER REPAIR, 2=TOTAL)
MK YR VG .1-3 SORT FIELDS: (VALID=MK,01-12,PS,PR,GR,DS,LC,AC,GW,LD,UW,VG,YR)
P-A XLE R-A XLE BRAKES DR LINELECTR ENGINE FUEL BODY SP EQPT MISC
REPAIR COST AND FREQUENCY BY MAKE . (NON-STR REPAIR CODE REPORT TITLE)
```

This NRPC report is in the same format as the NRPC report of Fig. 9 except that the data is cumulative and totaled for the frequency (FREQ) and COST columns. Cost per mile (CPM) is not printed if these options are specified.

MAKE		PLYM	REPAIR COST AND FREQUENCY BY MAKE														DATE 11/22/78	PAGE 1	RUN 11/22/78	20				
YEAR	CNT	CPV	F-AXLE		R-AXLE		BRAKES		DR LINE		ELECTR		ENGINE		FUEL		BODY		SP EQPT		MISC			
			FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST	FRQ	COST
			YEAR 73																					
90	12	1606.1	27	664	17	369	40	1006	28	510	67	1649	101	2695	35	669	92	3675	0	0	707	8036		
91	58	1384.1	263	7052	28	1269	213	5914	52	1011	318	6565	335	6975	142	2574	383	12708	1	14	3177	36195		
	70	1422.1	290	7716	45	1638	253	6920	80	1521	385	8214	436	9670	177	3243	475	16383	1	14	3884	44231		
			YEAR 74																					
91	30	1067.0	96	1913	16	268	86	1828	43	777	127	2560	158	2792	84	1624	143	3122	0	0	1657	17126		
	30	1067.0	96	1913	16	268	86	1828	43	777	127	2560	158	2792	84	1624	143	3122	0	0	1657	17126		

MAKE PLYM REPAIR COST AND FREQUENCY BY MAKE DATE 11/22/78 PAGE 1 RUN 11/22/78 20

Fig. 10—Non-Structured Repair (Repair Cost And Frequency By Make)

This is the RDF portion of the IMIL report which is used to input vehicle mileage into the MOVIMS data base for each vehicle each month.

<p>1 THE MILEAGE INPUT FORM REPORT (GENERATE) YES-1, NO-0 MILEAGE INPUT FORM . (INPUT FORM TITLE)</p>

The IMIL report form is used to collect data for input of quarterly mileage per vehicle to the MOVIMS data base. A separate input report is printed for each garage location.

GARAGE P5414		MILEAGE INPUT FORM		DATE 11/20/78	PAGE 1	RUN 11/20/78	110
NEW CARD, COLUMNS:		LICENSE NUM	VEHICLE NUMBER	NEW READING, NEAREST MILE	OLD READING		
1-2			4-15 LEFT JUSTIFY	16-21 LEFT JUSTIFY			
0 6		GA-LAW662	90-01251-673	-----	56593		
COLUMNS			23-34 LEFT JUSTIFY	35-40 LEFT JUSTIFY			
		GA-BJK321	93-00164-176	-----	16159		
COLUMNS			42-53 LEFT JUSTIFY	54-59 LEFT JUSTIFY			
		GA-BAU896	93-01167-174	-----	16000		
COLUMNS			61-72 LEFT JUSTIFY	73-78 LEFT JUSTIFY			
		GA-DAT399	93-03132-278	-----	2380		

GARAGE P5414		MILEAGE INPUT FORM		DATE 11/20/78	PAGE 1	RUN 11/20/78	110
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Fig. 11—Mileage Input Form Report

This is the RDF portion for a
Structured Mileage Report (SMIL).

```
1 THE VEHICLE MILEAGE REPORT REQUEST (YES-1,NO-0)
0 THE INCLUSION OF ADCODES AS PART OF THE REPORT (YES-1,NO-0)
* 1 THE GAS DISCREPANCY REPORT (GENERATE) YES-1,NO-0
  1 GROUP MILES BY GARAGE (YES-1,NO-0)
  1 GROUP MILES BY 1ST LINE (YES-1,NO-0)
  1 GROUP MILES BY 2ND LINE (YES-1,NO-0)
  1 GROUP MILES BY 3RD LINE (YES-1,NO-0)
  0 GROUP MILES BY 4TH LINE (YES-1,NO-0)
  0 GROUP MILES BY 5TH LINE (YES-1,NO-0)
  0 GROUP MILES BY 6TH LINE (YES-1,NO-0)
```

*This option for the Gas Discrepancy Report will produce meaningless output and should not be requested.

Two pages of the SMIL Report are combined here for simplicity, Group Miles by Garage and Group Miles by 1st line. Second Line has the same format. Quarterly (Q), Year-To-Date (Y), cumulative (C) and Miles-Per-Gallon (MPG) data was requested. MPG data and adcodes cannot be requested on the same report.

GARAGE		P5414		VEHICLE MILEAGE REPORT				DATE	11/20/78	PAGE	1	RUN	11/20/78	132
VEHICLE ID	LICENSE	Q-MILE	Y-MILE	C-MILE	Q-GAS	Y-GAS	C-GAS	Q-MPG	Y-MPG	C-MPG				
90-01251-673	GA-LAW662	2548	8361	56593	34	682	3460	75	12	16				
93-00164-176	GA-BJK321	1257	4177	16159	0	179	1087	0	16	14				
93-01167-174	GA-BAU896	1232	3843	16000	10	171	832	123	22	19				
93-03132-278	GA-DAT399	1120	2380	2380	16	61	61	70	39	39				

FOREMAN		11010303		VEHICLE MILEAGE REPORT				DATE	11/20/78	PAGE	1	RUN	11/20/78	137
GROUP	NUMBER	QUARTER	YEAR TO DATE	TOTAL	QUARTER	YEAR TO DATE	TOTAL	Q	YTD	T				
NUM	OF VEH	MILES	MILES	MILES	GALLONS	GALLONS	GALLONS	MPG	MPG	MPG				
10	1	1855	5721	41169	31	602	2556	60	10	16				
11	38	67620	214546	1350656	3847	27757	69330	18	8	19				
20	3	4645	15795	108877	172	1007	3731	27	16	29				
21	1	1673	12725	48881	78	152	1174	21	84	42				
22	2	6103	16527	148305	125	363	1795	49	46	83				
90	1	2548	8361	56593	34	682	1593	75	12	36				
91	3	2766	31173	140537	115	954	2580	24	33	54				
93	4	4839	13816	55419	48	593	1418	101	23	39				

GARAGE P5414 VEHICLE MILEAGE REPORT DATE 11/20/78 PAGE 1 RUN 11/20/78 132

Fig. 12—Vehicle Mileage Report

This is the RDF portion for a Structured Mileage Report (SMIL) with quarterly mileage figures specified and adcodes included.

```

1 REPORTED MILES (0=NONE;1=Q;2=Q,YTD;3=Q,YTD,CUM;4=Q,YTD,CUM,AND MP6)
1 THE VEHICLE MILEAGE REPORT REQUEST (YES-1,NO-0)
1 THE INCLUSION OF ADCODES AS PART OF THE REPORT (YES-1,NO-0)
0 THE GAS DISCREPANCY REPORT (GENERATE) YES-1,NO-0
1 GROUP MILES BY GARAGE (YES-1,NO-0)
1 GROUP MILES BY 1ST LINE (YES-1,NO-0)
1 GROUP MILES BY 2ND LINE (YES-1,NO-0)
1 GROUP MILES BY 3RD LINE (YES-1,NO-0)
1 GROUP MILES BY 4TH LINE (YES-1,NO-0)
1 GROUP MILES BY 5TH LINE (YES-1,NO-0)
0 GROUP MILES BY 6TH LINE (YES-1,NO-0)
          VEHICLE MILEAGE REPORT (STRUCTURED MILEAGE REPORT TITLE)

```

On this report only quarterly mileage is requested. Also the inclusion of adcode information was requested which automatically includes district, labor class, and account data. Since this data is meaningful, only at the vehicle level, it does not appear on higher level summary reports.

GARAGE		VEHICLE MILEAGE REPORT					DATE	PAGE	RUN											
8C030							10/24/78	1	10/24/78											
VEHICLE ID	LICENSE	Q-MILE	C-MILE	DIST	LABOR	ACCOUNT	AD-1	AD-2	AD-3	AD-4	AD-5	AD-6	AD-7	AD-8	AD-9	AD10	AD11	AD12		
1026008	18RV0147	850	35586	681	NT	70902	1171	M3RN	2506	XXX1	1159	4130								
1083002	18RV0175	234	87050	683	02		1171	M3RN	2306	XXX1	396D	4335								
1026009	18RV0148	39	64525	682	NT	70902	1171	M3RN	2506	XXX1	0639	GP36								
1163027	18VW3106	415	29032	681	02	XXXXX	1141	M3UC	2506	XXX1	88D4	4130								

Fig. 13—Vehicle Mileage Report

This is the RDF portion for a
Non-Structured Mileage Report
(NMIL)

1 THE NON-STRUCTURED MILEAGE REPORT (GENERATE) YES-1,NO-0
DS LC .1-2 SORT FIELDS: (VALID KEYS = 01-12,DS,LC,AC,GW,LD,UW)
3 REPORTED MILES (1=QTR;2=QTR,YTD;3=QTR,YTD,AND CUM)
DISTRICT MILEAGE REPORT . (NON-STR. MILEAGE REPORT TITLE)

This report is optioned to show mileage for all three time periods by vehicle group for each district and for each labor class within that district. A count of the vehicles is also displayed.

54F		ME	DISTRICT MILEAGE REPORT			DATE 11/20/78	PAGE 1	RUN 11/20/78	142
GROUP	COUNT	Q-MILES	Y-MILES	C-MILES					
10	1	549	3637	64127					
11	2	855	3624	97269					
90	1	2548	8361	56593					
91	10	17263	86460	587021					
93	27	57654	153346	554456					
99	3	3348	21896	255670					
TOTAL	44	82217	277324	1615336					

54F ME DISTRICT MILEAGE REPORT DATE 11/20/78 PAGE 1 RUN 11/20/78 142

Fig. 14—Non-Structured Mileage Report

Three sort reports are indicated by this portion of the RDF.

```

1 THE SORT REPORTS (GENERATE) YES-1,NO-0
3 NUMBER OF SORT REPORTS (1 DIGIT NUMBER 1 TO 5)
ID LI GR 06 SR DS LC AC MK LD SD
ID .KEYS TO SORT THE 1ST REPORT BY (MAX 4)
      .VEHICLE SELECTION CRITERION FOR 1ST REPORT
      VEHICLE LISTING .TITLE FOR 1ST SORT REPORT

```

This first report includes all vehicles in the data base (no selection criteria specified). The report specifies 11 different data items to be printed for each vehicle. Definitions of these data keys are given in lines 23 through 60 of the sort section of the RDF. See Fig. 1, pages 10 and 11. These lines also allow the user to specify title information to correspond to each of these data items. Since a single sort key (ID) has been specified, the entire report will be listed in vehicle number order. Valid sort keys are given in the DBA Manual.

VEHICLE LISTING

DATE 11/20/78 PAGE 55

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TRICO	VEH NO	LICENSE	GARAG	USER	VEHICLE IDENT	NO	DST	LC	ACCT	MAKE	LOAD	S	DATE
	93-03471-178	GA-BWH416	F5421	3DR	8T11Y240122		54P	HA		FORD		0	780811
	93-03472-178	GA-BWH352	F5421	3DR	8T11Y240123		54P	HA		FORD		0	780726
	93-03473-178	GA-BWH415	F5421	3DR	8T11Y240124		54P	HA		FORD		0	780726
	93-03474-178	GA-BWH356	F5421	3DR	8T11Y240125		54P	HA		FORD		0	780719
	93-03475-178	GA-BWH400	F5446	3DR	8T11Y240126		54P	DI 132-14		FORD		0	780810
	93-03476-178	GA-BWH353	F5446	3DR	8T11Y240127		54P	DI 132-14		FORD		0	780810
	93-03477-178	GA-BWH355	F5421		8T11Y240128		54P	HA		FORD		0	780811
	93-03478-178	GA-BWH406	F5409	3DR	8T11Y240129		00P	HP		FORD		0	780810
	93-03479-178	GA-BWH402	F5666	3DR	8T11Y240130		00P	HP		FORD		0	780817
	93-03480-178	GA-DBJ698	F1306	3DR	8T11Y240131		13P	HE		FORD		0	780719
	93-03596-177	BSR871	F1310	3DR	7X11Y215290		13P	HA 643-36		FORD		0	770628
	93-03629-277	EJR487	F5316	3DR	1B08E7Y195167		53P	HE 709-02		CHEV		0	770711
	93-03630-277	EJR486	F5316	3DR	1B08E7Y195264		53P	HE 709-02		CHEV		0	770711
	99-00020-273	GA-LPW656	F5409	4DR	1C29F3R446143		00P	HP 705-16		CHEV		0	780620
	99-00021-274	GA-LPW657	F5409	4DR	1C29H4D420635		00P	KN 705-16		CHEV		0	740515
	99-00022-273	GA-LPW658	F5409	4DR	1C29F3R446102		00P	EX 640196		CHEV		0	781012
	99-00023-273	GA-LPW659	F5409	4DR	1C29F3R450107		00P	PE 665-36		CHEV		0	730221
	99-00025-273	GA-LPW661	F5409	4DR	1C29F3R452293		00P	EX 640196		CHEV		0	780628
	99-00026-273	GA-LPW662	F5404	4DR	1C29F3B520295		54P	HE 709-02		CHEV		0	730228
	99-00027-273	GA-LPW663	F5409	4DR	1C29F3B520503		00P	CO 640116		CHEV		0	730301
	99-00028-273	GA-LPW664	F5409	4DR	1C29F3B520453		00P	PE 665-36		CHEV		0	730301
	99-00029-273	GA-LPW665	F5409	4DR	1C29F3B520400		00P	EN 705-16		CHEV		0	730228

VEHICLE LISTING

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Fig. 15—Vehicle Listing, 1st Sort

RDF portion for the first and second sort reports.

```

1 THE SORT REPORTS (GENERATE) YES-1,NO-0
3 NUMBER OF SORT REPORTS (1 DIGIT NUMBER 1 TO 5)
ID LI GR 06 SR DS LC AC HK LD SD
ID          .KEYS TO SORT THE 1ST REPORT BY (MAX 4)
           .VEHICLE SELECTION CRITERION FOR 1ST REPORT
           VEHICLE LISTING                      .TITLE FOR 1ST SORT REPORT

GR ID
GR ID          .KEYS TO SORT THE 2ND REPORT BY (MAX 4)
MAKE EQ FORD  .VEHICLE SELECTION CRITERION FOR 2ND REPORT
FORD VEHICLES BY GARAGE                      TITLE FOR 2ND SORT REPORT

```

This second sort report has been limited to Ford vehicles only. This section specifies that the garage number and vehicle number be shown for each vehicle. The vehicles are sorted by garage ID and then by vehicle number within each garage.

FORD VEHICLES BY GARAGE

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GARAG TELCO VER NO

F5666 93-03479-178
F5668 10-00214-169
F5668 11-00322-174
F5668 11-00323-174
F5668 11-00324-174
F5668 11-00340-174
F5668 11-00342-174
F5668 11-00437-172
F5668 11-00438-174
F5668 20-00093-170
F5668 21-00964-174
F5668 22-01302-173
F5668 32-01318-168
F5668 32-03238-177
F6451 93-01453-174
F9531 93-02742-175

FORD VEHICLES BY GARAGE

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Fig. 16—Ford Vehicles By Garage, 2nd Sort

This is the RDF portion for
the third sort report.

FR GR ID 06
FR GR ID .KEYS TO SORT THE 3RD REPORT BY (MAX 4)
.VEHICLE SELECTION CRITERION FOR 3RD REPORT
VEHICLES PER FOREMAN BY GARAGE .TITLE FOR 3RD SORT REPORT

This report is sorted first by foreman number, then by garage number within that foreman number, and finally by vehicle number within each garage. In addition, the value of one of the adcodes is shown. The titles to appear on the column headings are designated by the RDF user in lines 17 through 52 of this RDF section. See Fig. 1, Page 11 and 12.

VEHICLES PER FOREMAN BY GARAGE

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FOREMAN GARAG TELCO VEH NO USER

11021201	F1596	90-02345-270	4DR
11021201	F1596	91-02720-172	4DR
11021201	F1596	93-00160-176	2DR
11021201	F1596	93-01812-274	2DR
11021201	F1596	93-01813-274	2DR
11021201	F1596	93-02230-274	2DR
11021203	F1508	10-01662-372	PU
11021203	F1508	10-03170-378	PU
11021203	F1508	11-00835-373	VAN
11021203	F1508	11-01690-274	VAN
11021203	F1508	11-01691-274	VAN
11021203	F1508	11-01728-373	VAN
11021203	F1508	11-01729-373	VAN
11021203	F1508	11-01733-373	VAN
11021203	F1508	11-01735-373	VAN
11021203	F1508	11-01736-373	VAN
11021203	F1508	11-01737-373	VAN
11021203	F1508	11-01738-373	VAN
11021203	F1508	11-01739-373	VAN
11021203	F1508	11-01740-373	VAN
11021203	F1508	11-01757-372	VAN
11021203	F1508	11-01758-372	VAN
11021203	F1508	11-01759-373	VAN
11021203	F1508	11-01760-373	VAN
11021203	F1508	11-01761-373	VAN
11021203	F1508	11-02479-271	VAN
11021203	F1508	11-03618-278	
11021203	F1508	11-03619-278	
11021203	F1508	21-01779-173	VANN
11021203	F1508	21-01784-372	VANN
11021203	F1508	21-01785-372	VANN
11021203	F1508	21-01819-173	VANN
11021203	F1508	21-03221-278	VANN
11021203	F1508	21-03222-278	VANN
11021203	F1508	21-03235-178	VANN
11021203	F1508	91-01807-172	2DR
11021203	F1508	91-01808-172	2DR
11021203	F1508	91-01809-172	2DR
11021203	F1508	91-01818-172	2DR
11021203	F1508	91-02238-172	2DR

VEHICLES PER FOREMAN BY GARAGE

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Fig. 17—Vehicles Per Foreman By Garage, 3rd Sort

This is the RDF portion for
Adcode reports. One report
was selected.

```
1 NUMBER OF ADCODE REPORTS ( 1 DIGIT NUMBER 0 - 5)
ID MK
AD02 EQ R3RN 1 4. VEHICLE SELECTION CRITERION FOR 1ST REPORT
THREE-SPEED MANUAL TRANSMISSIONS .TITLE OF 1ST ADCODE REPORT
ID LI
      1 4. VEHICLE SELECTION CRITERION FOR 2ND REPORT
      .TITLE OF 2ND ADCODE REPORT
ID LI
      1 4. VEHICLE SELECTION CRITERION FOR 3RD REPORT
      .TITLE OF 3RD ADCODE REPORT
ID LI
      1 4. VEHICLE SELECTION CRITERION FOR 4TH REPORT
      .TITLE OF 4TH ADCODE REPORT
ID LI
      1 4. VEHICLE SELECTION CRITERION FOR 5TH REPORT
      .TITLE OF 5TH ADCODE REPORT
```

A maximum of five Adcode reports are permissible per batch run. The reports will be formatted according to the adcodes selected and the report titles indicated. The example shown here shows a portion of the printout for all vehicles in the files having three-speed manual transmission. Telephone Company Vehicle Number and Vehicle Make have been requested for each vehicle. The report is not sorted.

AD02	EQ M3RN	THREE-SPEED MANUAL TRANSMISSIONS	DATE 04/02/79	PAGE 5	RUN 04/02/79	5
TELCO	VEH NO	MAKE				
2086006		FORD				
2033012		CHEV				
2086008		FORD				
2066010		FORD				
2066016		FORD				
2097505		GMC				
2066018		FORD				
2026008		FORD				
2066006		FORD				
2026014		FORD				
2066017		FORD				
3066005		FORD				
3066006		FORD				
1043012		CHEV				
2066009		FORD				
2066008		FORD				
2034003		DODG				
2046002		FORD				
2046006		FORD				
2046010		FORD				
2047007		GMC				

THREE-SPEED MANUAL TRANSMISSIONS	DATE 04/02/79	PAGE 5	RUN 04/02/79	5
----------------------------------	---------------	--------	--------------	---

Fig. 18—ADCode Report, 3-Speed Automatic

The Dump Report is selected
by these two lines of the RDF.

X . WHAT STATUS OF VEHICLE ARE TO BE DUMPED (CAN BE BLANK)
MOVIMS VEHICLE INFORMATION RECORD .(DUMP REPORT TITLE)

In this Dump Report all of the available data on selected vehicles are printed out. The normal dump report is three pages long. Only portions of the data are shown here so that all of the format can be seen. The history of a vehicle is shown from make, model, service record, investment to gasoline, expense record and repairs.

VEHICLE 2046010 MOVINS VEHICLE INFORMATION RECORD DATE 04/02/79 1 RUN 04/02/79 1

VEHICLE ID	LICENSE	SERIAL NUMBER	TITLE NO	YEAR	MAKE	S	DATE	INVEST
2046010	18TA0272	E36GHT23354	443080	740101	FORD	731219		4859

DST	LC	ACCNT	GVW	LOAD	UVW	MILE-Q	MILE-Y	MILE-C	REGIS	COST
667	19		8300	6000	0	9	784	22849		9.00

AD01 AD02 AD03 AD04 AD05 AD06 AD07 AD08 AD09 AD10 AD11 AD12
 2221 M3RN 3028 XXX2 D639 4914

MONTHLY GAS				YEAR TO DATE GAS				LIFE OF VEHICLE GAS			
PUR	GALO	GALI	MPG	PUR	GALO	GALI	MPG	PUR	GALO	GALI	MPG
3	0	59	0	11	0	217	4	44	0	985	24

702 ACCOUNT TOTALS

	MONTH	YEAR	V-LIFE		MONTH	YEAR	V-LIFE
702012	39	142	624	702013	15	26	75
702114	0	0	270	702214	0	0	0
702115	268	544	974	702215	0	0	0

REPAIR CODE DATA

	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	C0	C1	CW
RC1 1	0	0	0	0	0	0	0	0	0	0	0	0	0
RC1 2	0	0	0	0	0	0	0	0	0	1	0	11	0
RC1 3	0	0	0	0	0	0	0	0	0	0	0	0	0
RC1 4	0	0	0	0	0	0	0	0	0	0	0	0	0
RC1 5	0	0	0	0	0	0	0	0	0	0	0	0	0
RC1	0	0	0	0	0	0	0	0	0	1	0	11	0
RC2 1	0	0	0	0	0	0	0	0	0	0	0	0	0
RC2 2	0	0	0	0	0	0	0	0	0	0	0	0	0

VEHICLE 2046010 MOVINS VEHICLE INFORMATION RECORD DATE 04/02/79 1 RUN 04/02/79 1

Fig. 19—Vehicle Dump Report