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Advanced Vehicle Technology

March 15, 1999

To: J. Kilsdonk

Subject: Crash Test No. 11188, T-B0731 Test Report Corrections, R/1

The final report of the subject crash test was corrected as follows:

Sheet 2 Occupants - LF: US-SID Instrumented Dummy was changed to
 "LF: SID/Hybrid III Instrumented Dummy".

Sheet 3 Vehicle Alignment - The test vehicle impacted an 8 inch
 diameter steel pole structure, rigidly attached to the
 barrier face was changed to "The test vehicle impacted
 an 10 inch diameter steel pole structure, rigidly attached
 to the barrier face".

M. A. DeShong

M. A. DeShong
Operations Engineering Section
Safety Laboratories Department

Concur: *Stephen M. Leek 3/15/99*
 B. Leek
 Section Supervisor
 Operations Engineering Section

corr.11188

CRTS 0011188

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CONFIDENTIAL

FINAL TEST REPORT**Global Test Operations
Advanced Vehicle Technology****TO:**E. Arthurs
J. MarkTest Order No.
Work Task W.O. No.
Test Dates
Date Reported
SheetT-B0781
AR455
9/11/99
11/17/99
1 of 114**SUBJECT:**

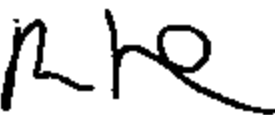
Crash Test 11186 (90° Left Side Fixed Pole Impact at 17.9 ± 0.4 mph, 25.0 ± 0.6 km/h) - 1999 Lincoln Town Car (FM-166) 4-Door Sedan

REQUESTED BY:Vehicle Safety and CAE Department, Advanced Vehicle Technology -
J. Wozniak**OBJECT:**

To obtain development data relative to FMVSS 201 and 201.

**SUMMARY OF
TEST RESULTS**

- See Section 1 for injury criteria data.
- See Section 2 for fuel spillage data.


R. Burns
Test Development Engineer


Completed R. Burns
Section Supervisor
Operations Engineering Section

VEHICLE DATA (TARGET)

Make and Model	1999 Lincoln Town Car (FN-145) 4-Door Sedan (Production Vehicle)
ID Numbers	1LNHM88W7XY614184, 590-T-803
Power Train	4.6L, EFI, Automatic Transmission
Fuel Tank(s)	Usable Capacity: 19 gal. (71.9L) Test Condition: The "run dry" tank was filled with red-dyed Stoddard solvent to 95% of its rated usable capacity.
Front Seat(s)	Type: Bucket Cover: Leather Tracks/Position: 4-Way Power/Mechanical Mid and Down Seat Backs/Position: Adjustable/26.1° Rear of Vertical Head Restraints/Position: Adjustable/Up Lumber Support/Position: Power/Deflated
Restraint System	LF: 3-Point Continuous Loop Active Belt and Seat Back Side Air Bag
Occupants	LF: SIDI/Hybrid III Instrumented Dummy
Test Weight	Front: 2449 lb (1111 kg) Rear: 2322 lb (1053 kg) Total: 4771 lb (2164 kg)
Tires	Front: P235/60R16 Rear: P235/60R16 Spare: Removed
Significant Content or Accessories	Air Conditioning, Power Steering, Power Brakes

GENERAL TEST COMMENTS:**1. Test Procedure**

The test was performed according to the following Corporate test procedure's:

- Fixed Barrier Collision, T857-ST-14 dated July 17, 1998.
- CFI and EFI Fuel Systems Stoddard Solvent Fill, ST-11 REF.4.

1.1 Vehicle Alignment

The test vehicle impacted an 10 inch diameter steel pole structure, rigidly attached to the barrier face. The centerline of the steel pole was aligned with the lateral C.G. of the left front driver dummy.

2. Remarks

Crash movies, pre- and post- crash still images of the test vehicle and copies of this report are available only through the Operations Engineering Section after permission is obtained from the test requesting department. The crash still images are stored on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 11189001 through 11189089.

TEST RESULTS:**1. Occupant Protection in Interior Impact (FMVSS 201)****L.E. Dummy**

Head Injury Criteria (HIC)
Interval t_1
 t_2

500
58 ms
78 ms

Time histories of the dummy instrumentation are included in this report.

Time histories of the dummy dynamic displacements obtained from Film Analysis are included in this report.

Time histories of the air bag sensor(s) are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

2. Fuel System Integrity (FMVSS 301)

There was no fuel system spillage during or for thirty minutes following impact or during the post-crash static rollover test.

3. Vehicle Displacement and Instrumentation Data

Time histories of the vehicle/cart accelerations and other instrumentation are included in this report.

Time histories of vehicle dynamic displacements obtained from Film Analysis are included in this report.

Static displacements of various body points obtained by Dimensional Analysis are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

CR R: 11188 TO: TB0731 DATE: 980911 10:50:43
1999 TOWN CAR

(1) CR11188T L/F DUMMY HEAD C.G. LONG 1000C

MAX = 4.811 at 135.0 MS MIN = -2.678 at 75.16 MS

AXIS 1



CASDS Version 1.17.00 - 8-May-1999
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Safety Laboratories Department, 670-A
PLOT PAGE 30

TB0731
SHEET 5

ENTIRE PAGE CONFIDENTIAL

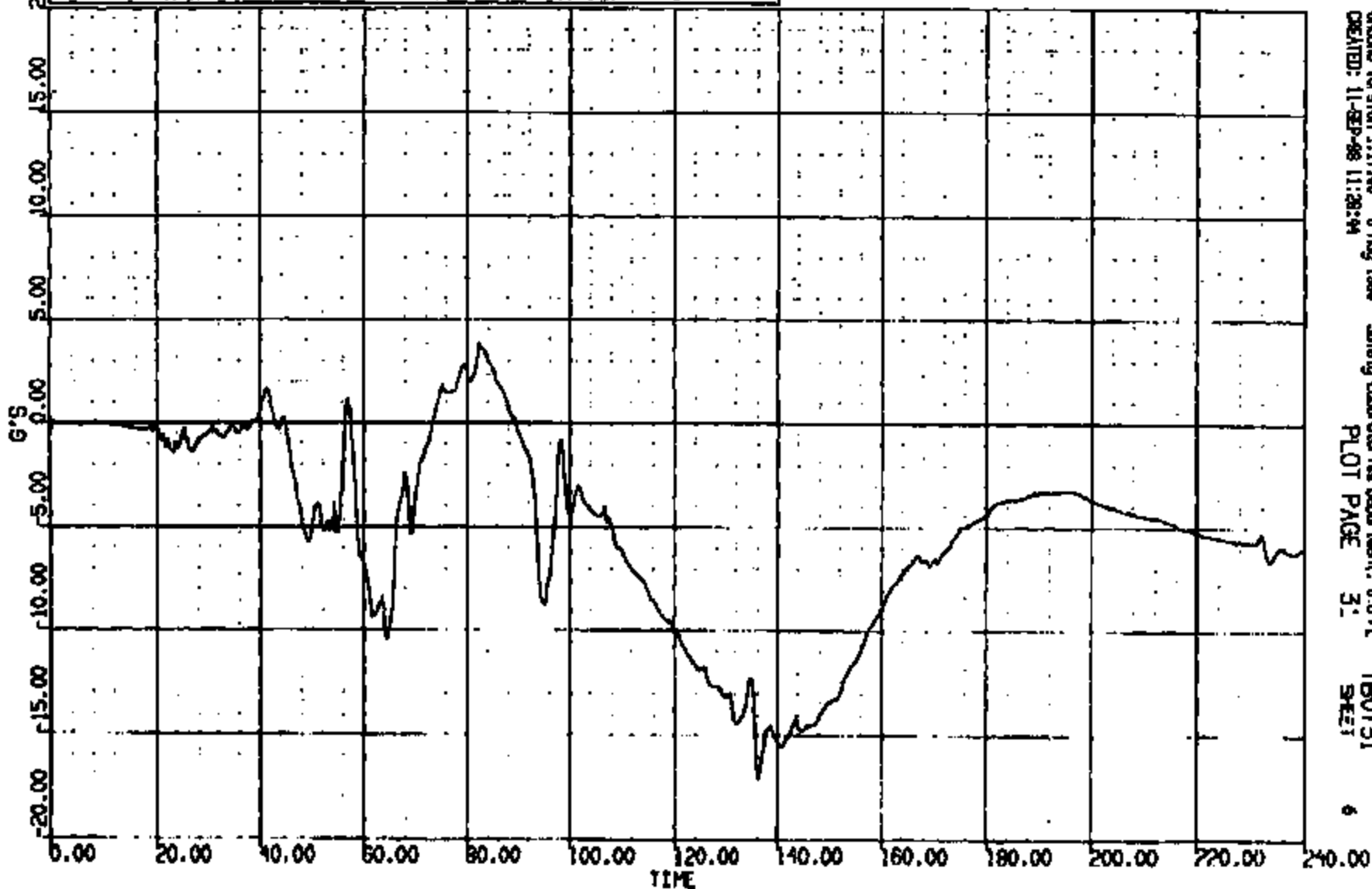
CR1S 0011188

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1999 TOWN CAR

(2) CR11188T L/F DUMMY HEAD C.G. VERT 1000C

MAX = 3.916 at 82.40 MS MIN = -17.12 at 136.2 MS

AXIS 1



CASMS Version 1.17.00 - 8-May-1998
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Safety Laboratories Department, 670-A
PLOT PAGE 31

TB0731
SHEET 6

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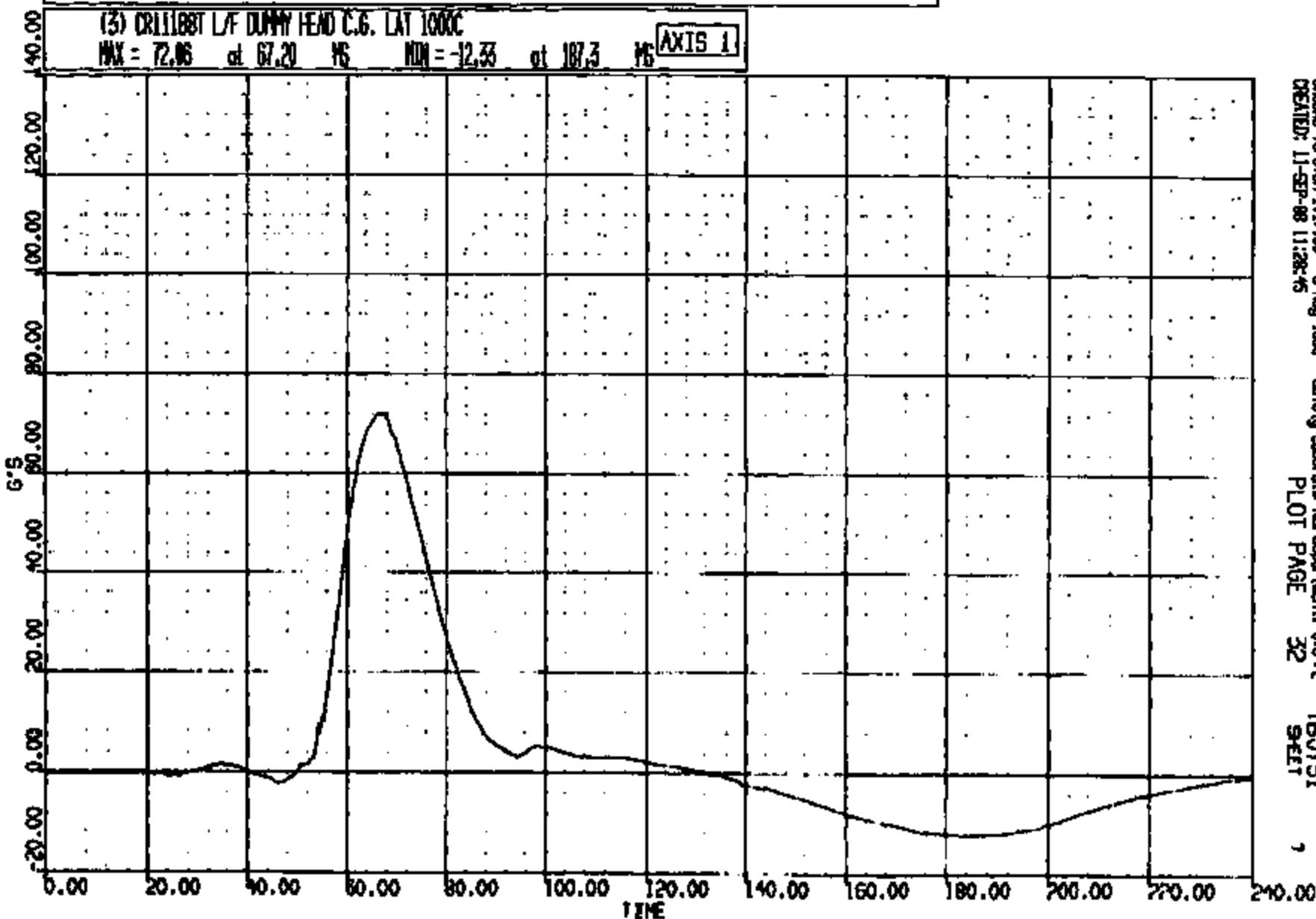
CR1S 0011188

CR #: 11188 TO: TB0751 DATE: 990911 10:50:45
1999 TOWN CAR

(3) CR11188T L/F DUMMY HEAD C.G. LAT 1000C

MAX = 72.96 at 67.20 MS MIN = -12.33 at 187.3 MS

AXIS 1



CRS Version 1.17.00 - 6-May-1999
CREATED: 11-SEP-99 11:28:45

Safety Laboratories Department, 670-A
PLOT PAGE 32

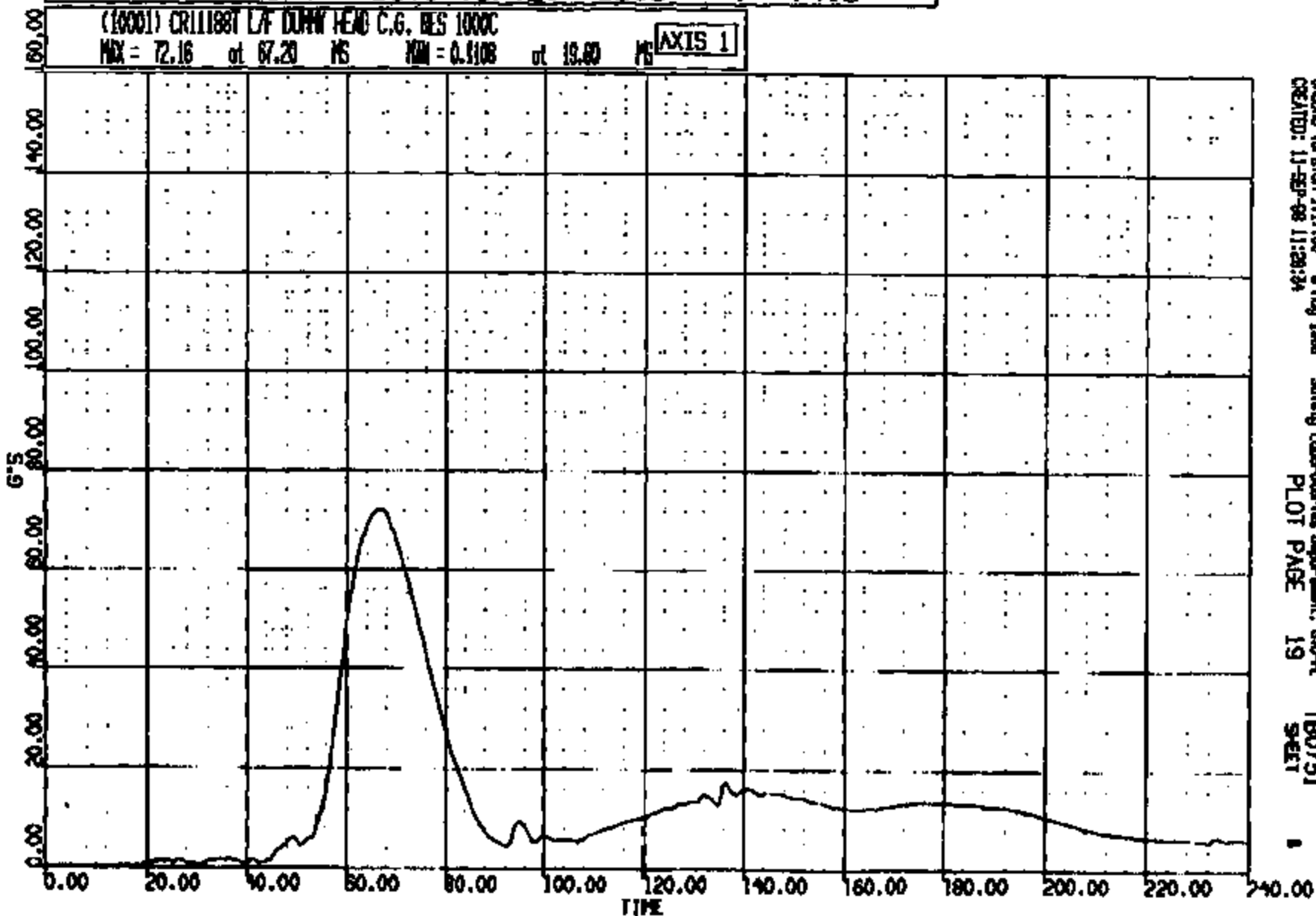
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CRTS 001188

ADAMS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 630-A
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011111	TOWN CAR		
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011111	472	DUR: 15.0	T1/T2: 58.8 // 74.8



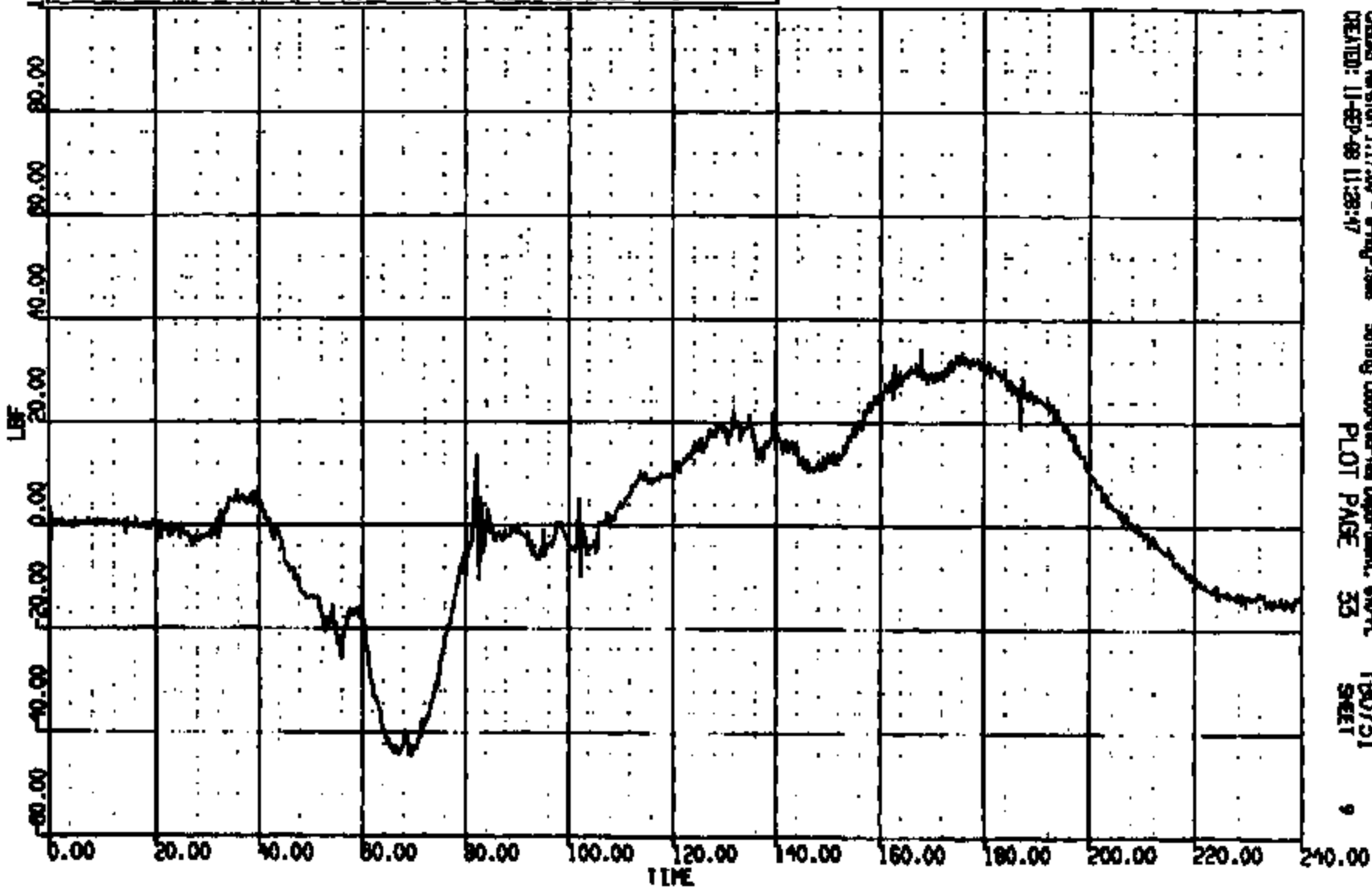
CR1188 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:30:48
1998 TOWN CAR

(4) CR11188T L/F DUMP NEXX UPPER LOAD FX 1000C

MAX = 34.12 at 168.0 MS MIN = -44.92 at 68.32 MS

AXIS 1



CASME Version 1.17.00 - 8-Aug-1998
CREATED: 11-SEP-98 11:28:47

Seifert Laboratories Department, 610-PL
PLOT PAGE 33

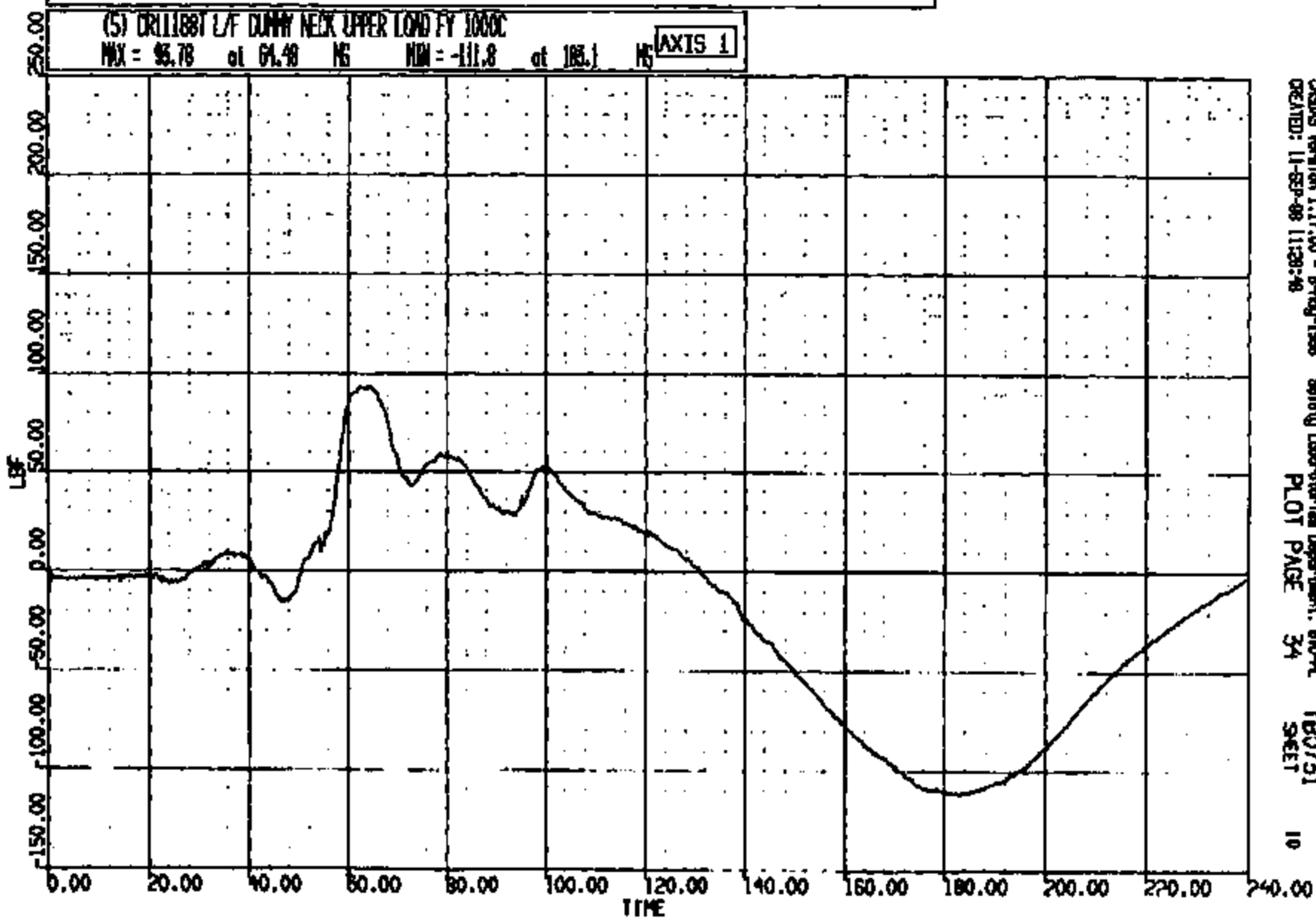
TB0731
SHEET

9

ENTIRE PAGE CONFIDENTIAL

CR15 0011188

CR R: 11188 TO: TB0751 DATE: 990911 10:30:43
1998 TOWN CAR



CASUS Version 1.17.00 - 8-Aug-1998
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Safety Laboratories Department, 610-A
PLOT PAGE 34

TB0751
SHEET 10

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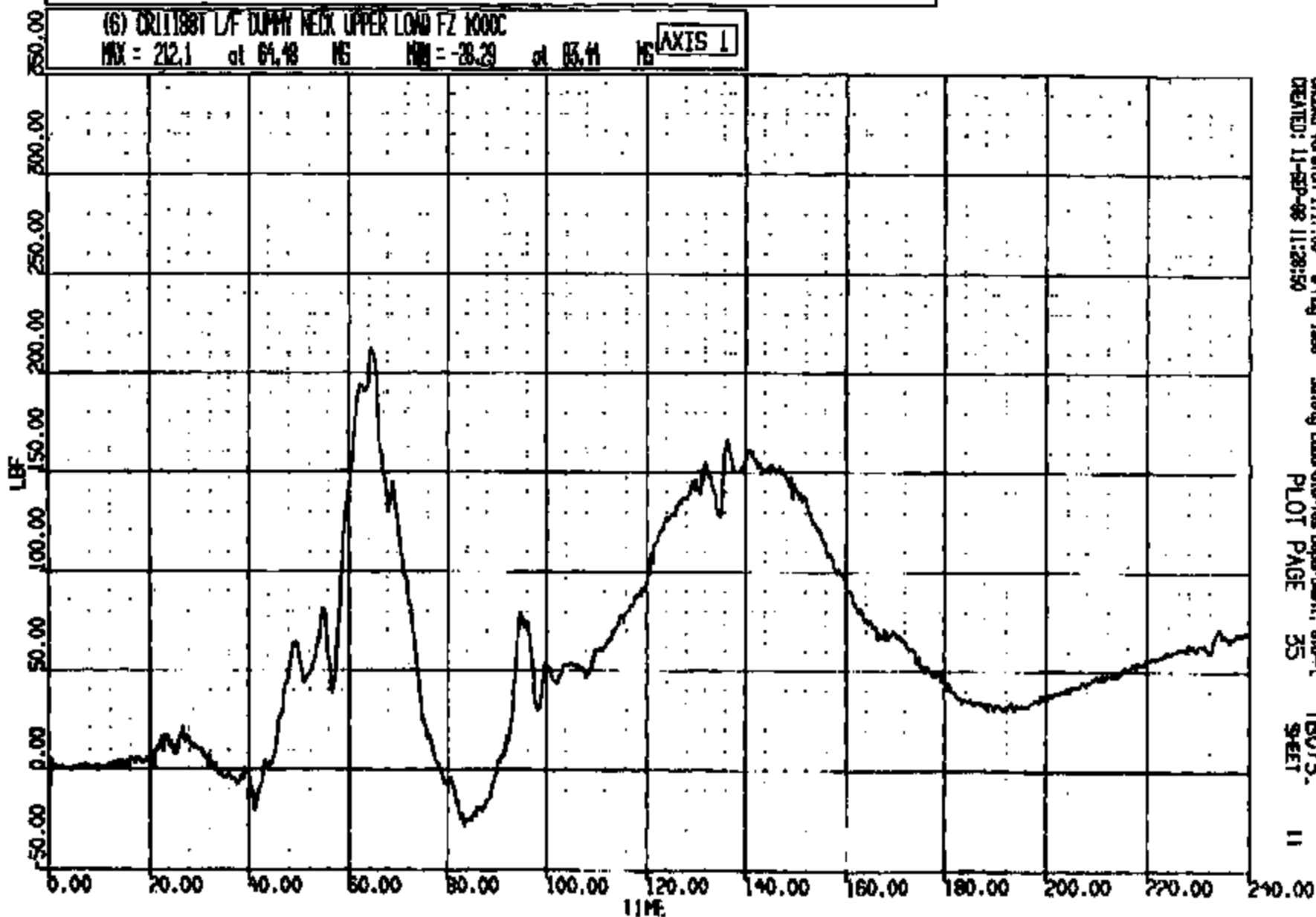
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CR R: 11188 TO: TB0731 DATE: 980911 10:50:48
1999 TOWN CAR

(6) CR11188T L/F DUMMY NECK UPPER LOAD FZ 1000C

MAX = 212.1 at 64.48 MS MIN = -28.29 at 83.44 MS

AXIS 1



CASINS Version 1.17.00 - 8-May-1999
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Safety Laboratories Department, 610-A
PLOT PAGE 35

TB0731
SHEET 11

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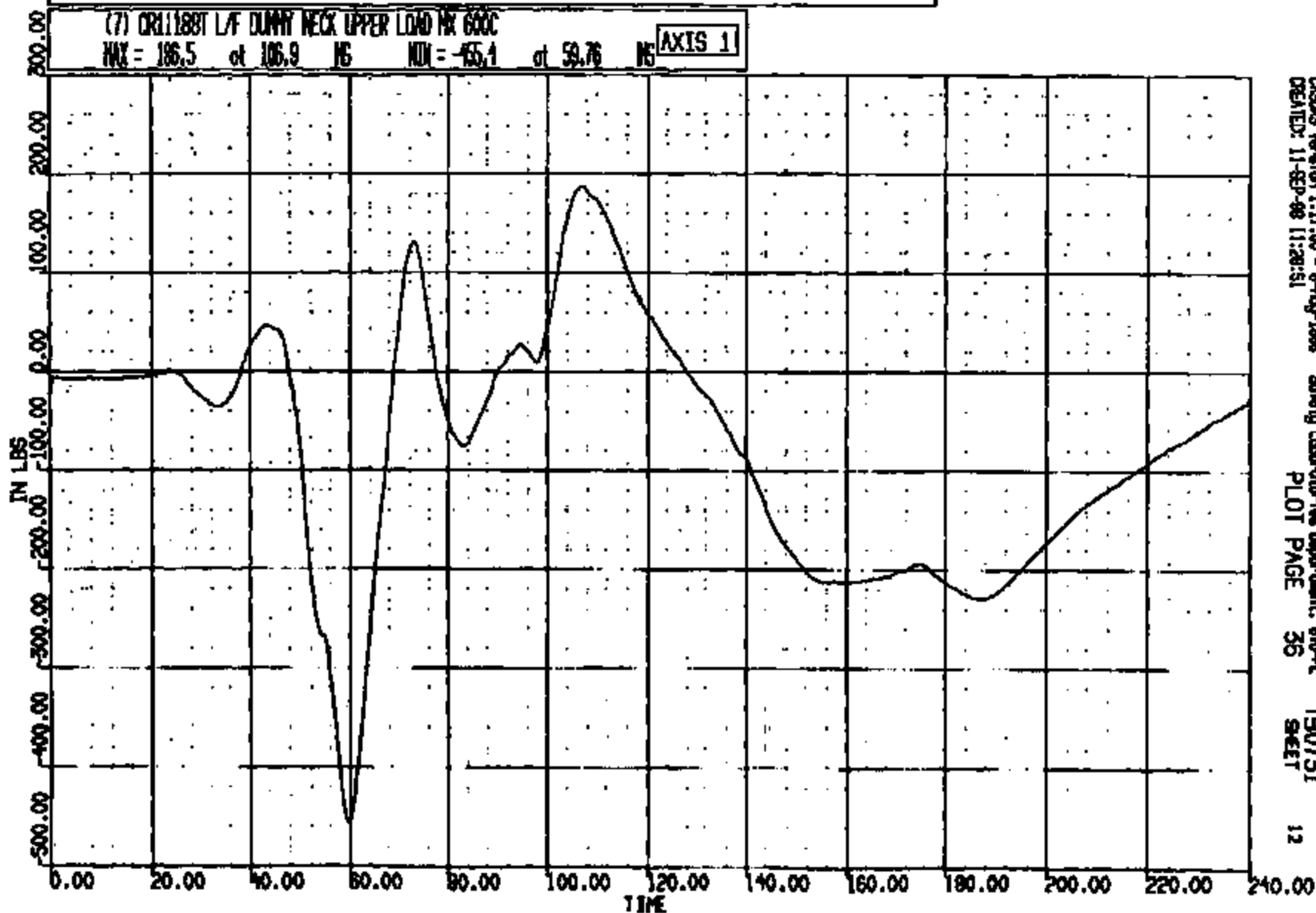
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CR R: 11188 TO: T50731 DATE: 990911 10:50:45
1999 TOWN CAR

(7) CR11188T L/F DUMMY NECK UPPER LOAD MAX 600C

MAX = 186.5 at 106.9 MS MIN = -455.4 at 59.76 MS

AXIS 1



CASUS Version 1.17.00 - 8-May-1998
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Safety Laboratory Department, 610-A
PLOT PAGE 35

T50731
SET 12

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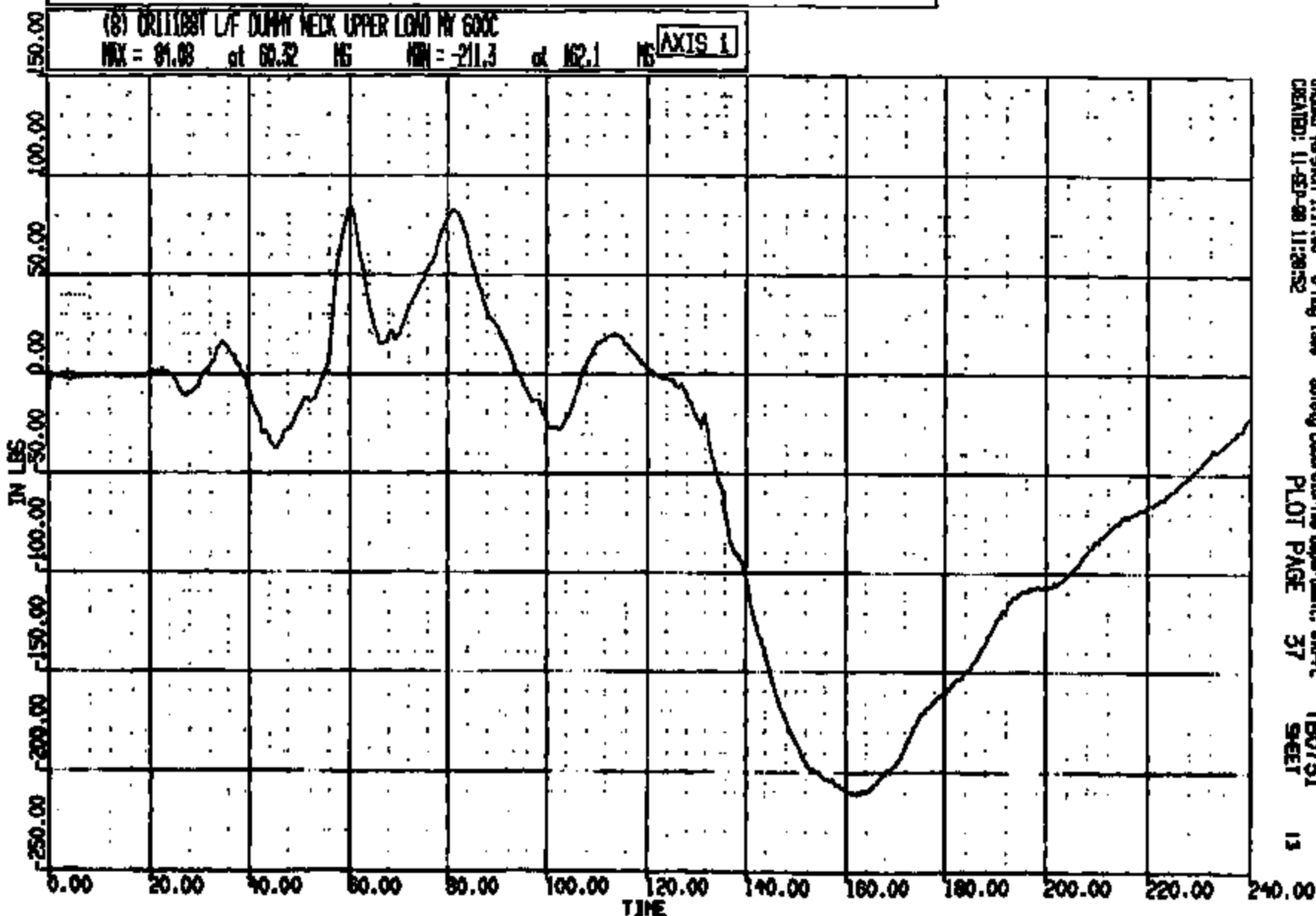
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CR #: 11188 TO: TB0731 DATE: 090911 10:50:45
1999 TOWN CAR

(S) CR11188T L/F DUMMY NECK UPPER LONd HY 600C

MAX = 81.08 at 60.32 MS MIN = -211.3 at 162.1 MS

AXIS 1



CHSAS Version 1.17.00 - 8-May-1998
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Safety Laboratory Department, SRA
PLOT PAGE 37

TB0731
SHEET 13

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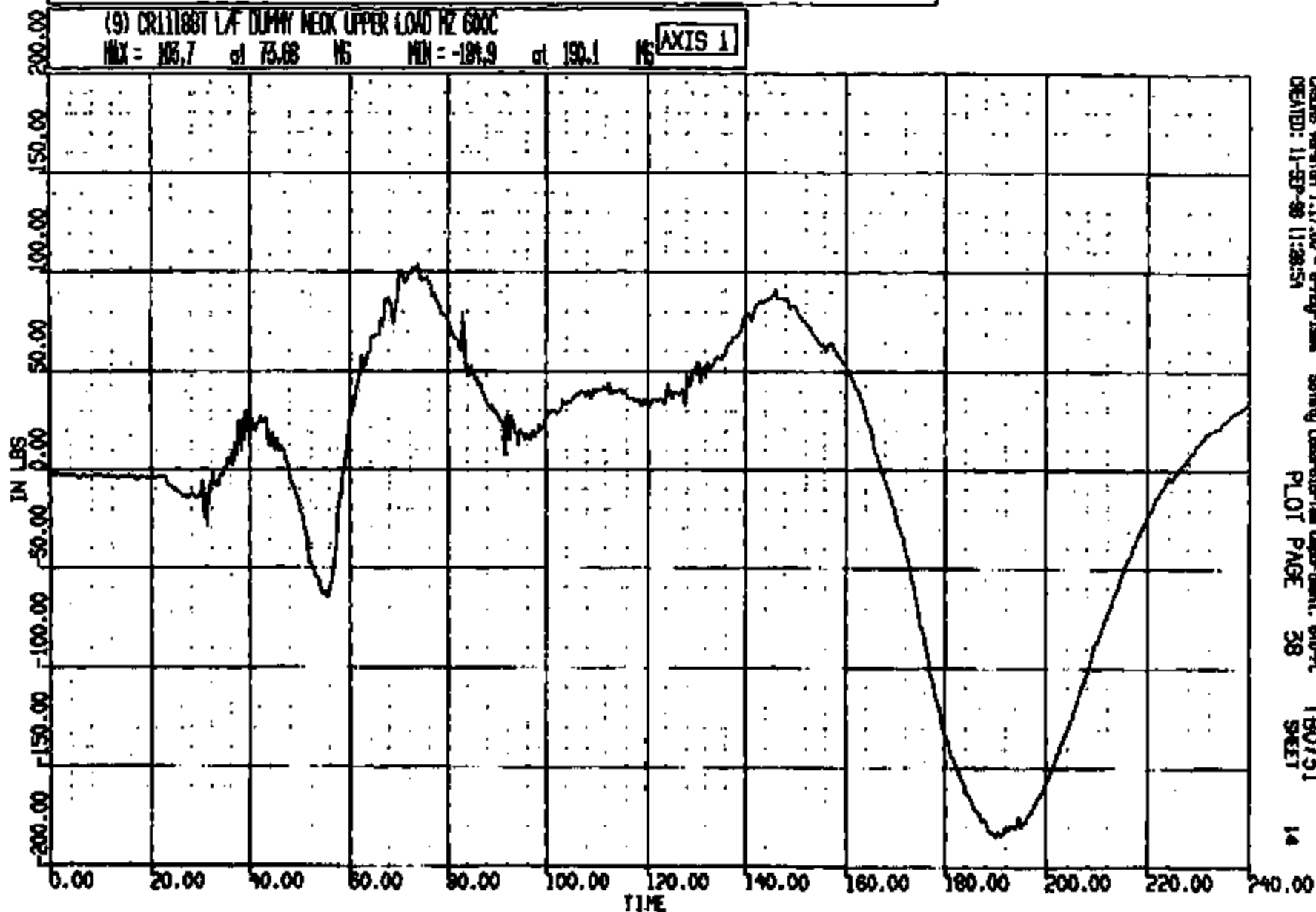
CR15 0011188

CR R: 11188 TD: TB0751 DATE: 980911 10:30:45
1999 TOWN CAR

(9) CR11188T LAF DUMMY NECK UPPER LOAD RZ 600C

MAX = 103.7 at 73.68 MS MIN = -181.9 at 190.1 MS

AXIS 1



CR1S 0011188

CR1S Version 1.17.00 - 8-Aug-1998 Safety Laboratory Department, 610-PL TB0751
CREATED: 11-SEP-98 11:28:54 PLOT PAGE 38 SHEET 14

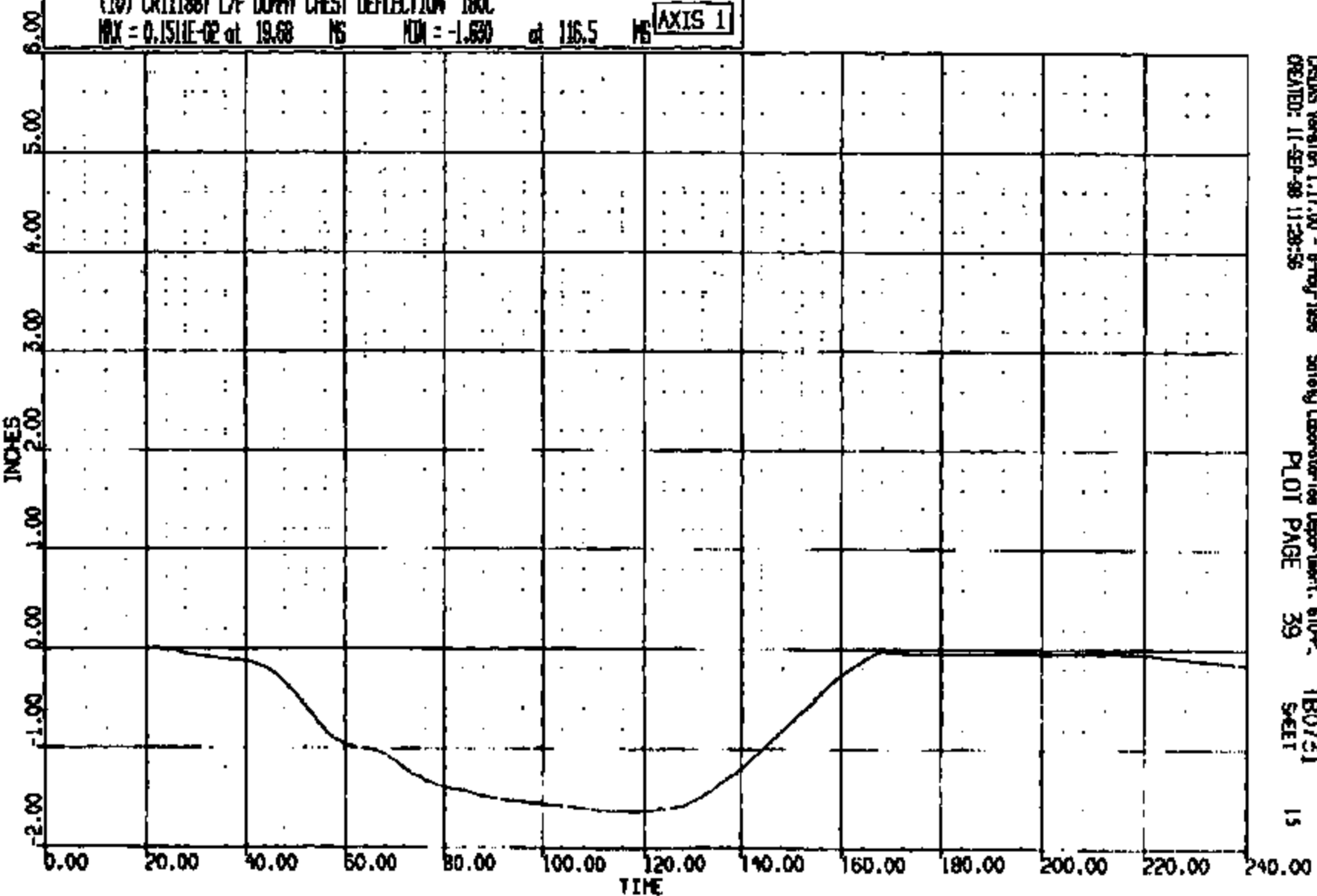
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: TB0731 DATE: 980911 10:50:43
1998 TOWN CAR

(10) CR11188T LAF DUMMY CHEST DEFLECTION 180C

MAX = 0.1511E-02 at 19.68 MS MIN = -1.630 at 116.5 MS

AXIS 1



CR11188

CAQAS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:28:56

Safety Laboratories Department, 610th
PLOT PAGE 39

TB0731
SHEET 15

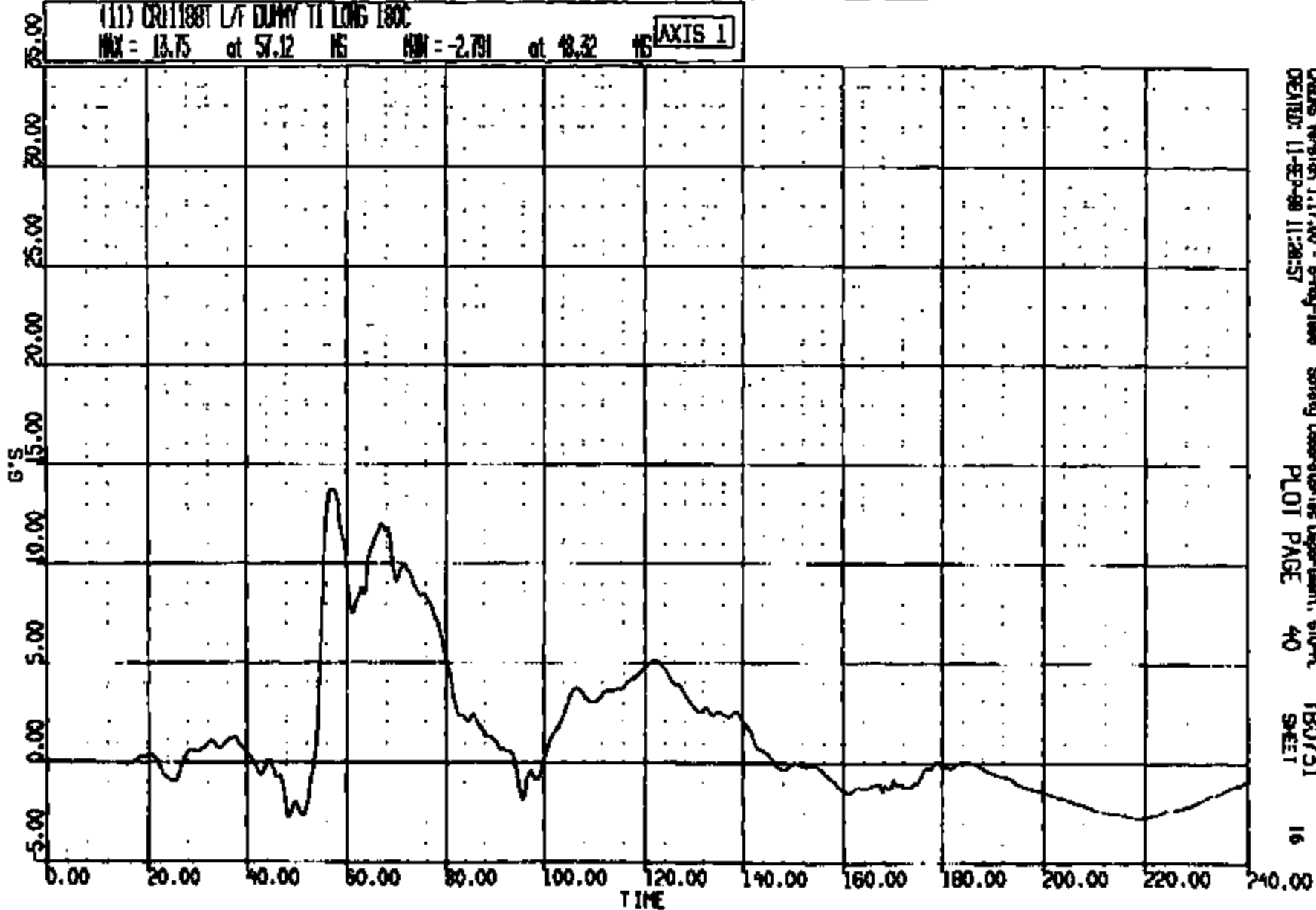
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 YO: TB0731 DATE: 980911 10:50:43
1999 TOWN CAR

(11) CR011881 L/F DUMMY TI LONG 180C

MAX = 13.75 at 57.12 MS MIN = -2.791 at 18.32 MS

AXIS 1



CRIS 001188

CR011881 Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-98 11:28:57

Safety Laboratories Department, 610-A
PLOT PAGE 40

TB0731
SHEET 16

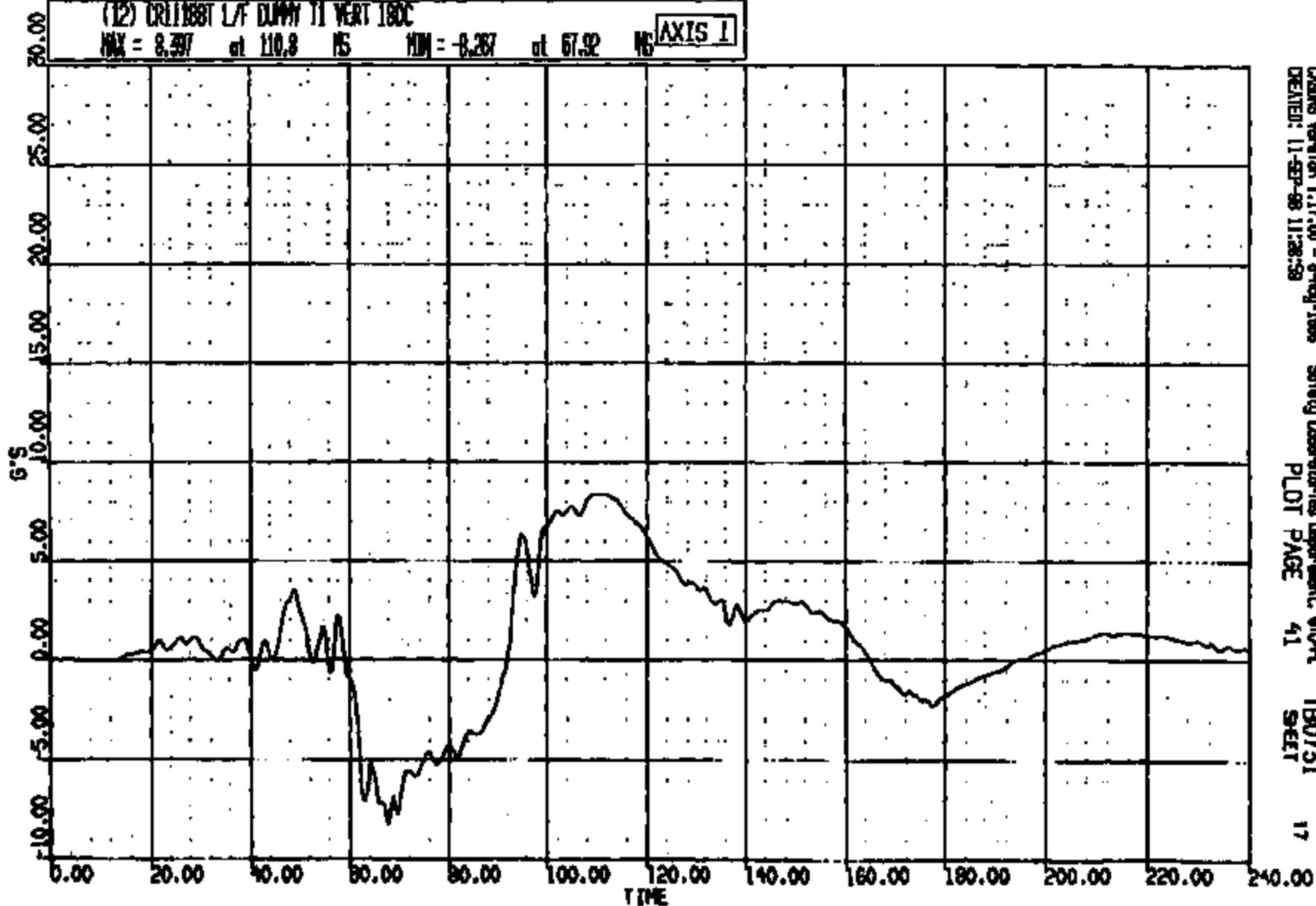
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CR R: 11188 TO: T80751 DATE: 880911 10:50:48
1989 TOWN CAR

(12) CR1188T L/F DUMP T1 VERT 180C

MAX = 8.397 at 110.8 MS MIN = -8.267 at 67.92 MS

AXIS 1



CASING Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:28:58

Safety Laboratories Department, 610-A
PLOT PAGE 41

T80751
SECT 17

ENTIRE PAGE CONFIDENTIAL

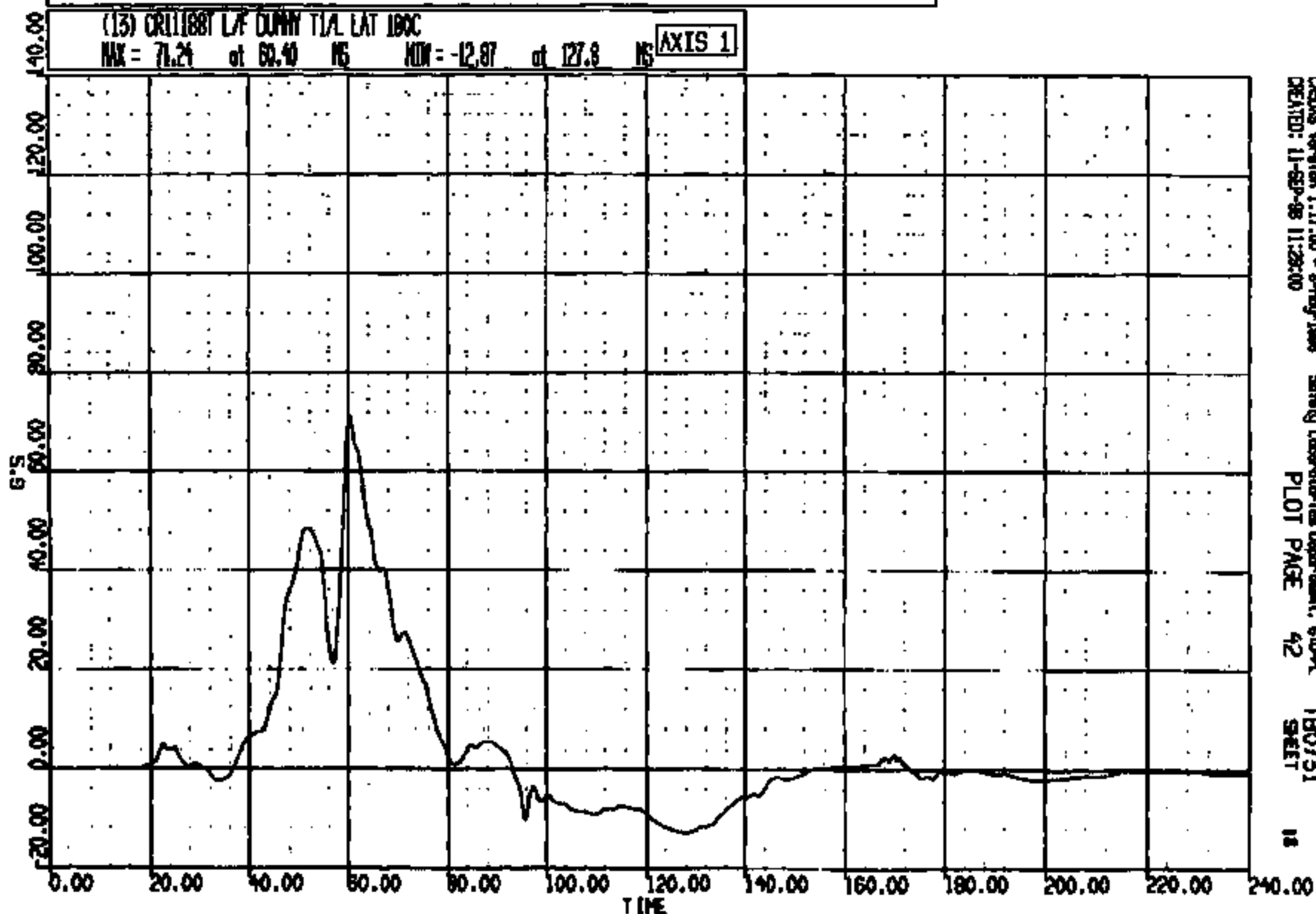
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CR R: 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(13) CR11887 L/F DUNN T/L LAT 180C

MAX = 71.24 at 50.40 NS MIN = -12.87 at 127.8 NS

AXIS 1



CRSUS Version 1.17.00 - 8-Aug-1998
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Safety Laboratories Department, 610-A
PLOT PAGE 4/2

TB0731
SHEET 18

ENTIRE PAGE CONFIDENTIAL

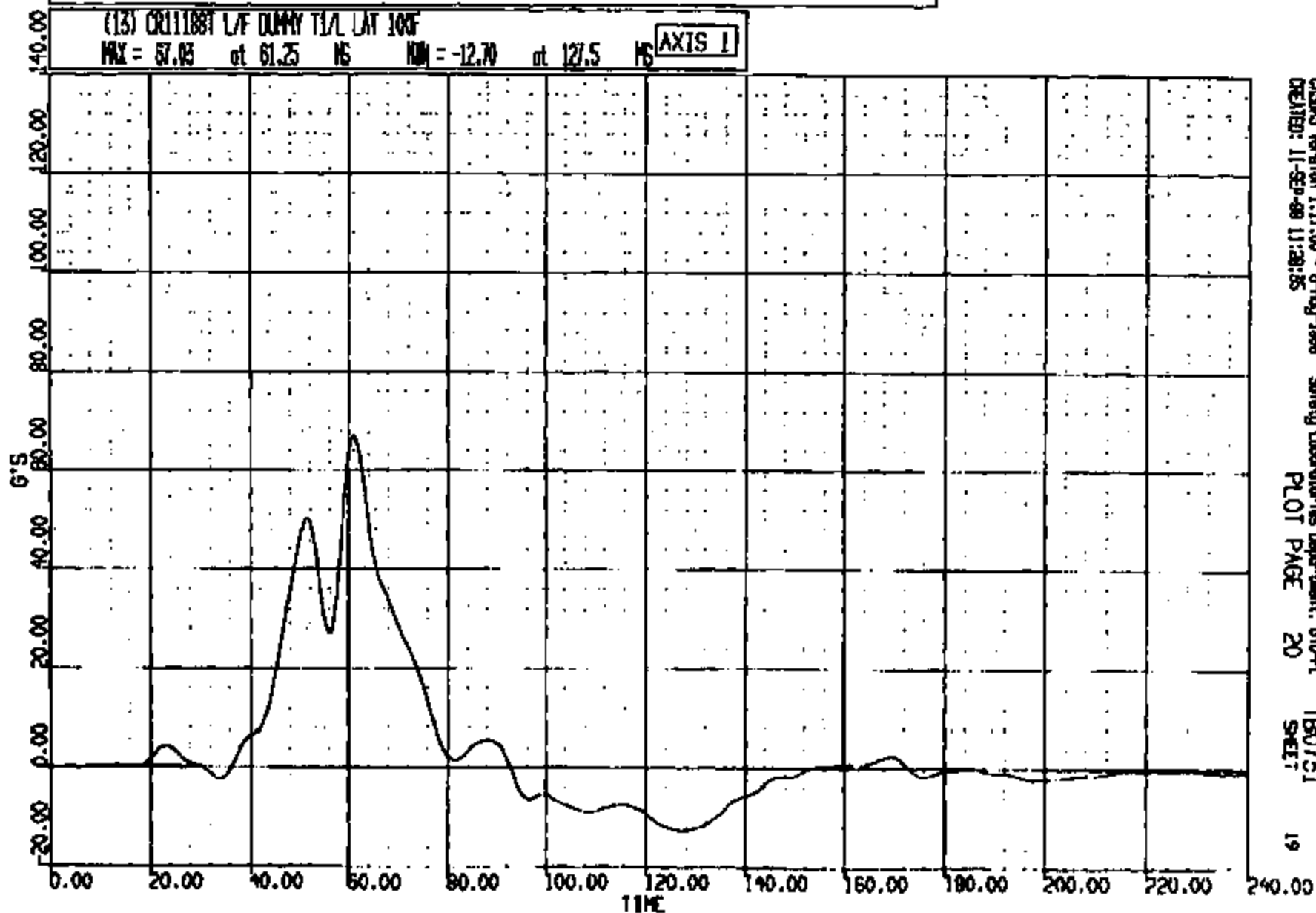
CRIS 001188

CR R: 11188 TO: TB0731 DATE: 880811 10:50:45
1988 TOWN CAR

(13) CR11188T L/F DUMMY T1/L LAT 100F

MAX = 57.93 at 61.25 MS MIN = -12.70 at 127.5 MS

AXIS 1



CR1S 0011188

CASING Version 1.17.00 - 8-Aug-1988
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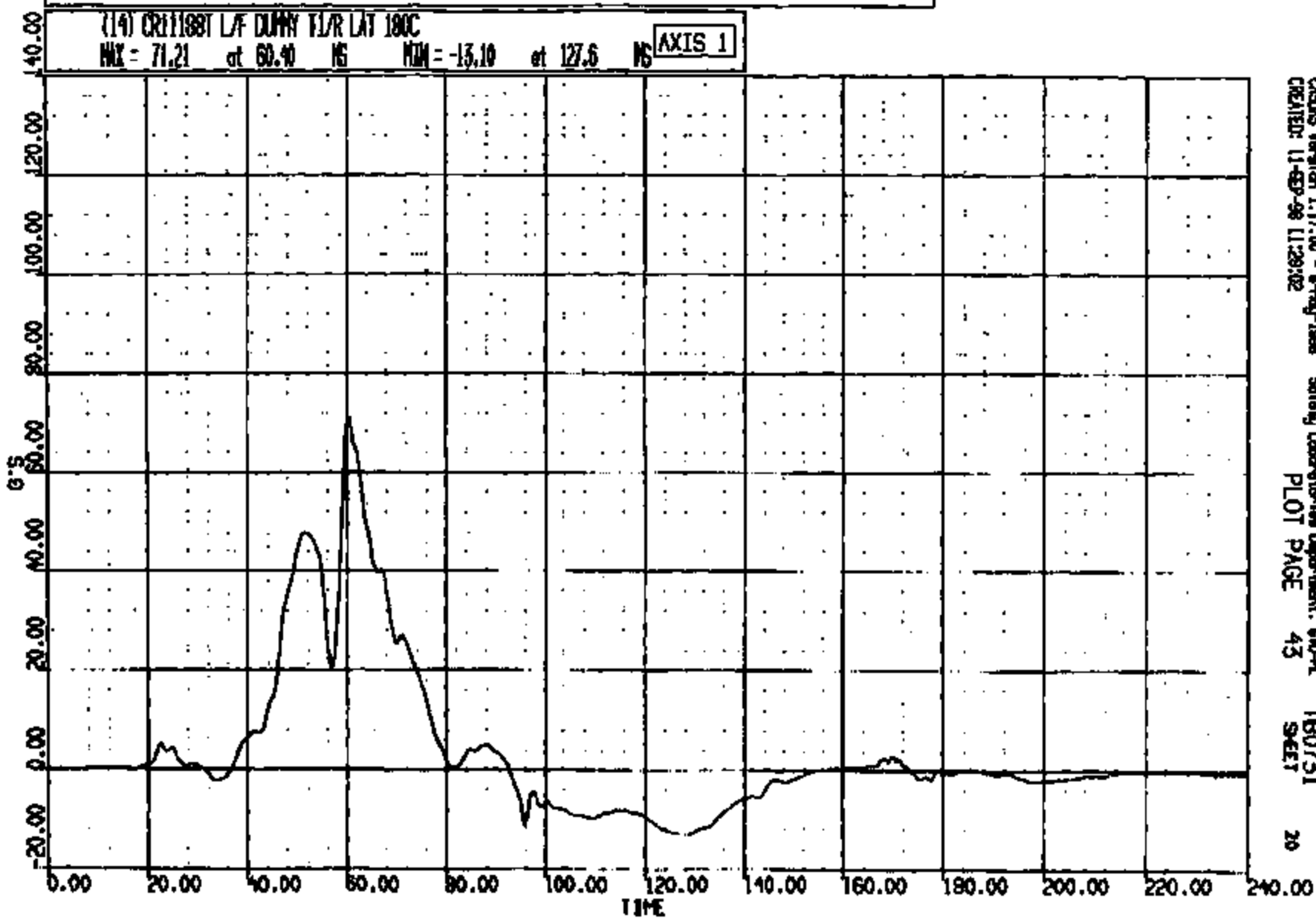
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PLOT PAGE 20

TB0731
SHEET

19

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CR R: 11188 TC: T80731 DATE: 990911 10:50:43
1999 TOWN CAR



CRIS 0011188

CRIMS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:28:02

Safety Laboratory Department, SIO-PL
PLOT PAGE 43

T80731
SECT 20

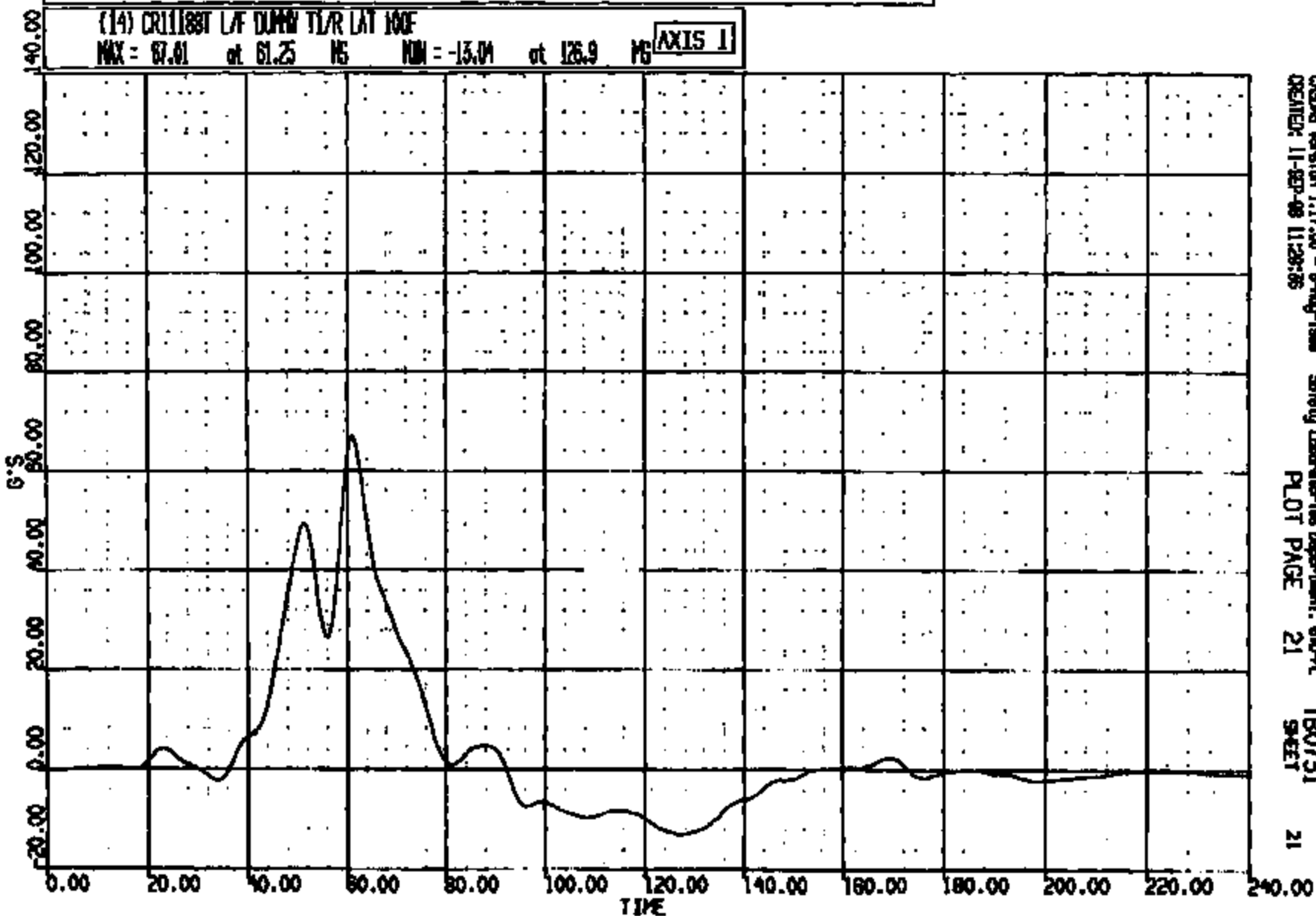
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: TB0731 DATE: 990911 10:50:45
1999 TOWN CAR

(14) CR11188T L/F DUMP TL/R LAT 100F

MAX = 87.01 at 61.25 MS MIN = -13.04 at 126.9 MS

AXIS 1



CASME Version 1.17.00 - 9-Aug-1999
CREATED: 11-SEP-99 11:28:35

Safety Laboratories Department, 600-A
PLOT PAGE 21

TB0731
SHEET 21

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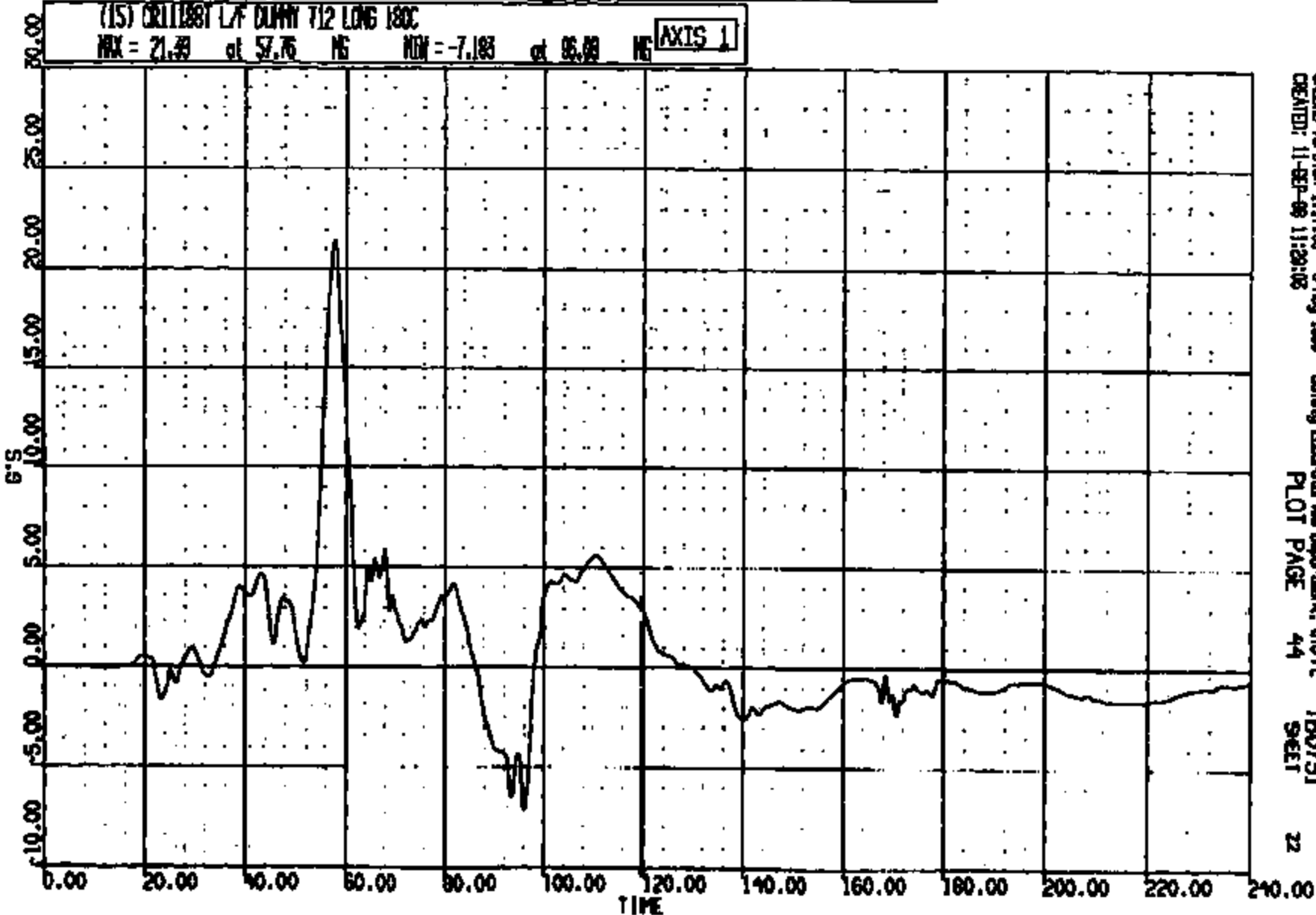
CR11188

CR R: 11188 TO: TB0751 DATE: 220911 10:50:45
1999 TOWN CAR

(15) CR11188T L7 DUMY 712 LONG 180C

MAX = 21.49 at 57.76 MG MIN = -7.183 at 95.00 MG

AXIS 1



CRIS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-99 11:29:08

Safety Laboratory Department, 610-PL
PLOT PAGE 44

TB0751
9-ELT
22

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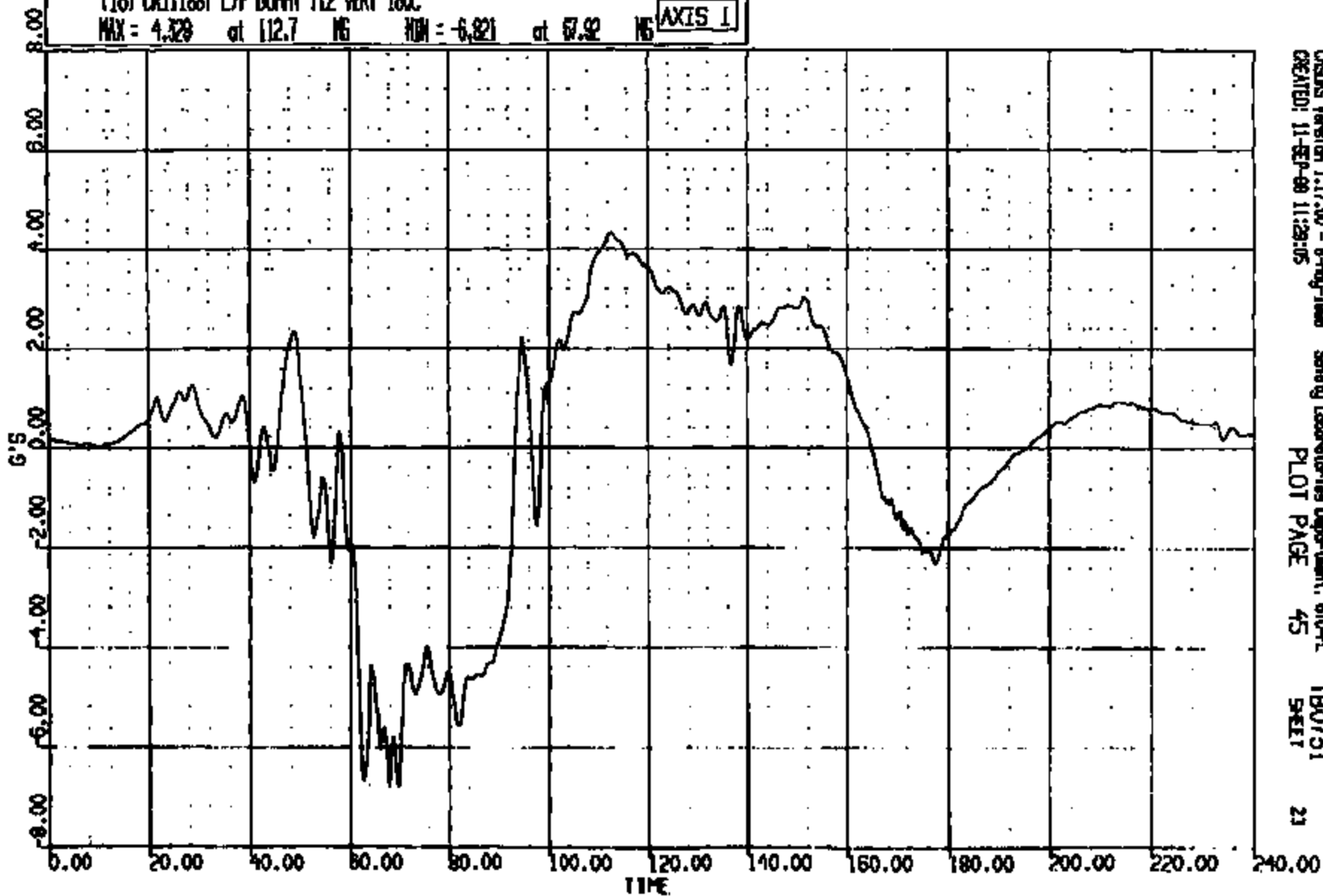
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(16) CR11188 L/F DUMMY TL2 VERT 180C

MAX = 4.329 at 112.7 MS MIN = -6.821 at 57.92 MS

AXIS 1



CASMS Version 1.17.00 - 8-May-1999
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Safety Laboratories Department, 610-P
PLOT PAGE 45

TB0731
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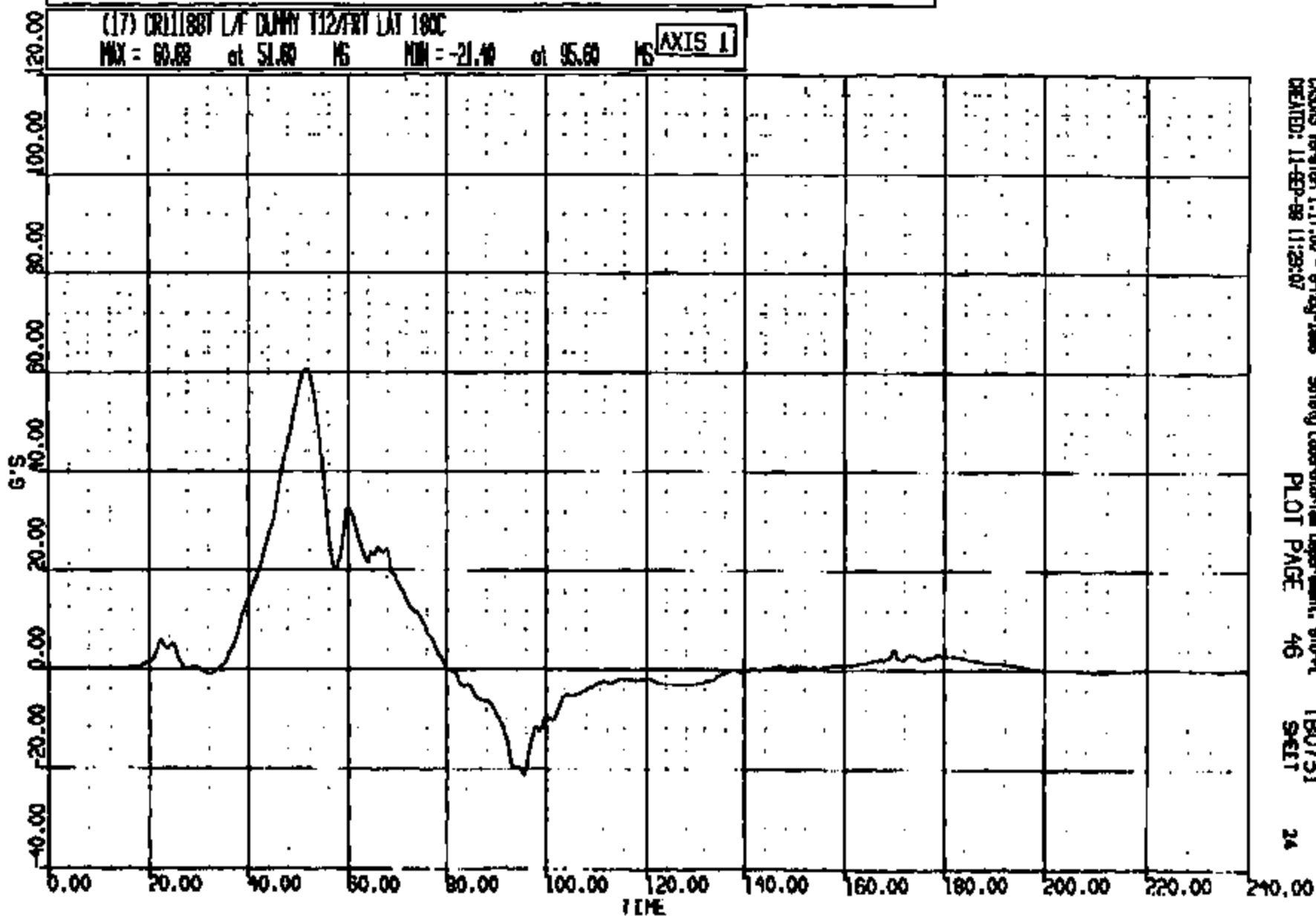
CRIS 001188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:45
1998 TOWN CAR

(17) CR1188T LAF DUMMY T12/RTY LAT 180C

MAX = 60.68 at 51.60 MS MIN = -21.40 at 95.60 MS

AXIS 1



CASIS Version 1.17.00 - 8-Aug-1999
CREATED: 11-SEP-98 11:28:07

Safety Laboratories Department, 610-A
PLOT PAGE 46

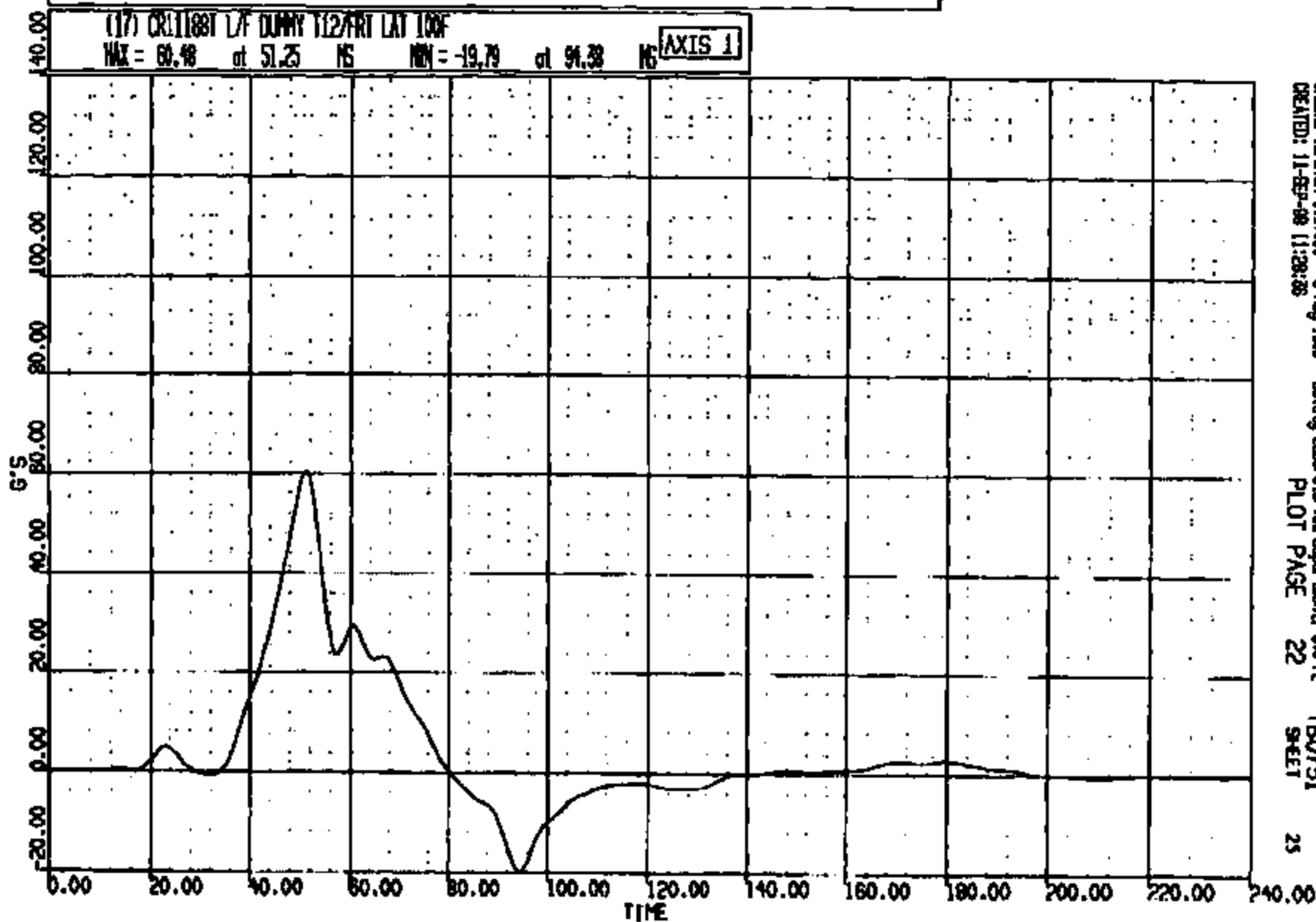
TB0731
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24

ENTIRE PAGE CONFIDENTIAL

CRIS 001188

CR R: 11188 TO: TB0751 DATE: 980911 10:50:43
1999 TOWN CAR



CRTS 0011188

CHS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-A
CREATED: 11-SEP-98 11:28:28 PLOT PAGE 22 SHEET 25

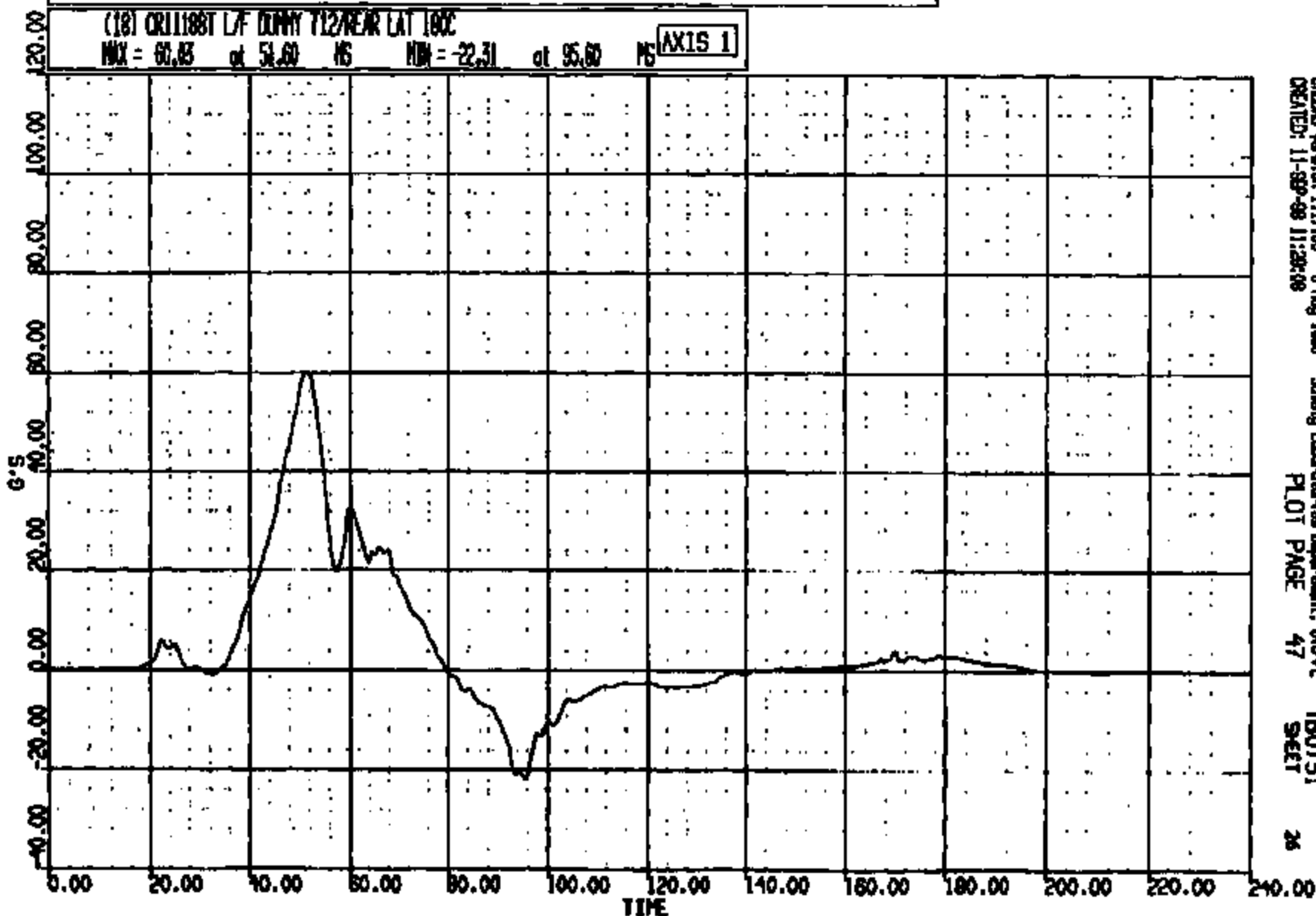
ENTIRE PAGE CONFIDENTIAL

CR #: 11188 TO: TB0751 DATE: 880911 10:50:45
1988 TOWN CAR

(18) CR11188T L/F DUNN T12/REAR LAT 100C

MAX = 60.43 at 54.60 MS MIN = -22.31 at 95.60 MS

AXIS 1



CHS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:28:08

Safety Laboratories Department, 610-A
PLOT PAGE 47

TB0751
Sheet 26

ENTIRE PAGE CONFIDENTIAL

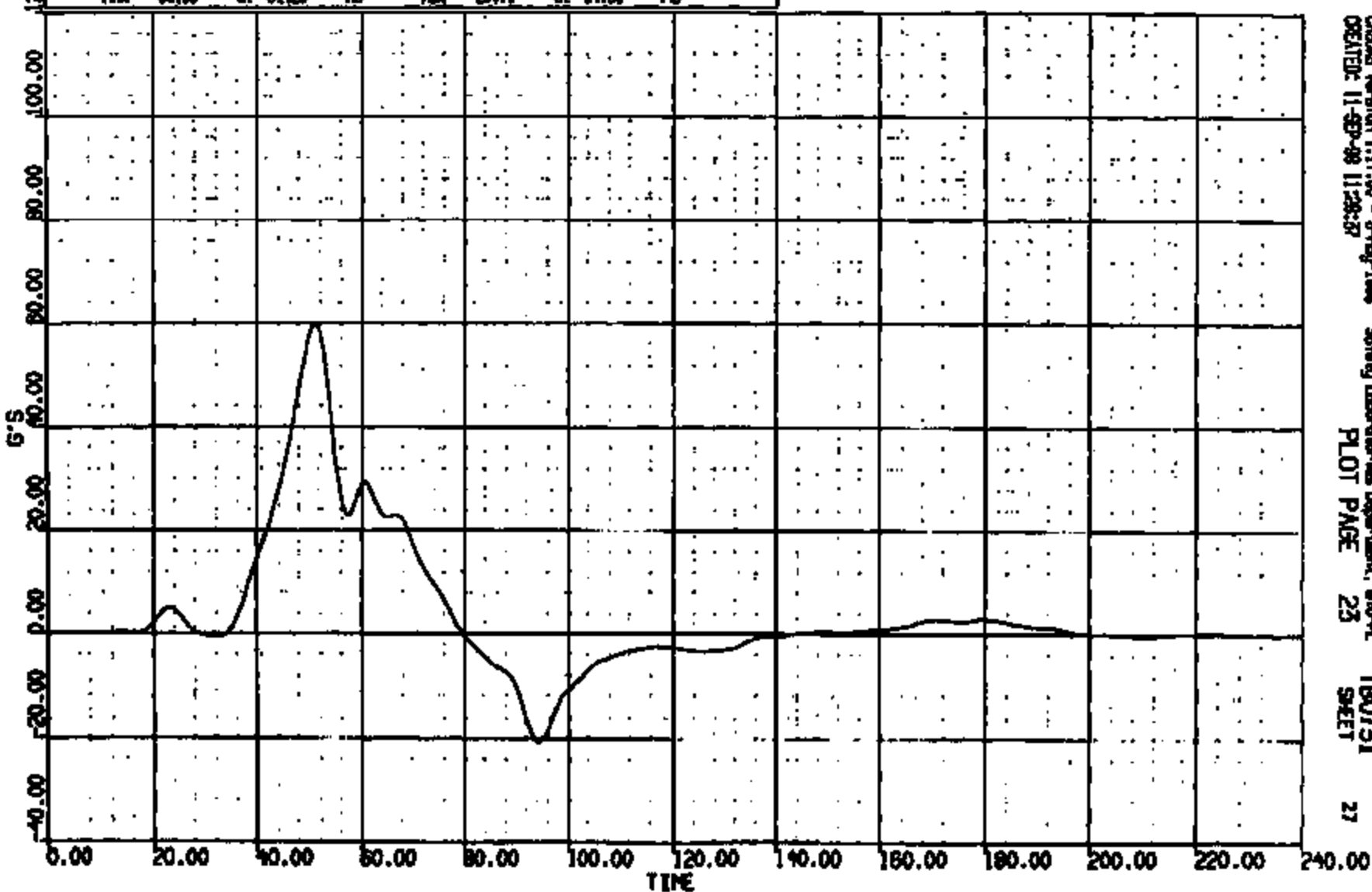
CRIS 001188

CR R: 11188 TO: TBO751 DATE: 990911 10:50:48
1999 TOWN CAR

(18) CR1188T L/F DUMPY T12/REAR LAT 100F

MAX = 59.85 at 51.25 MS MIN = -20.70 at 91.38 MS

AXIS 1



CASME Version 1.17.00 - 8-May-1999
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Safety Laboratories Department, 610-PL
PLOT PAGE 23

TBO751
SHEET 27

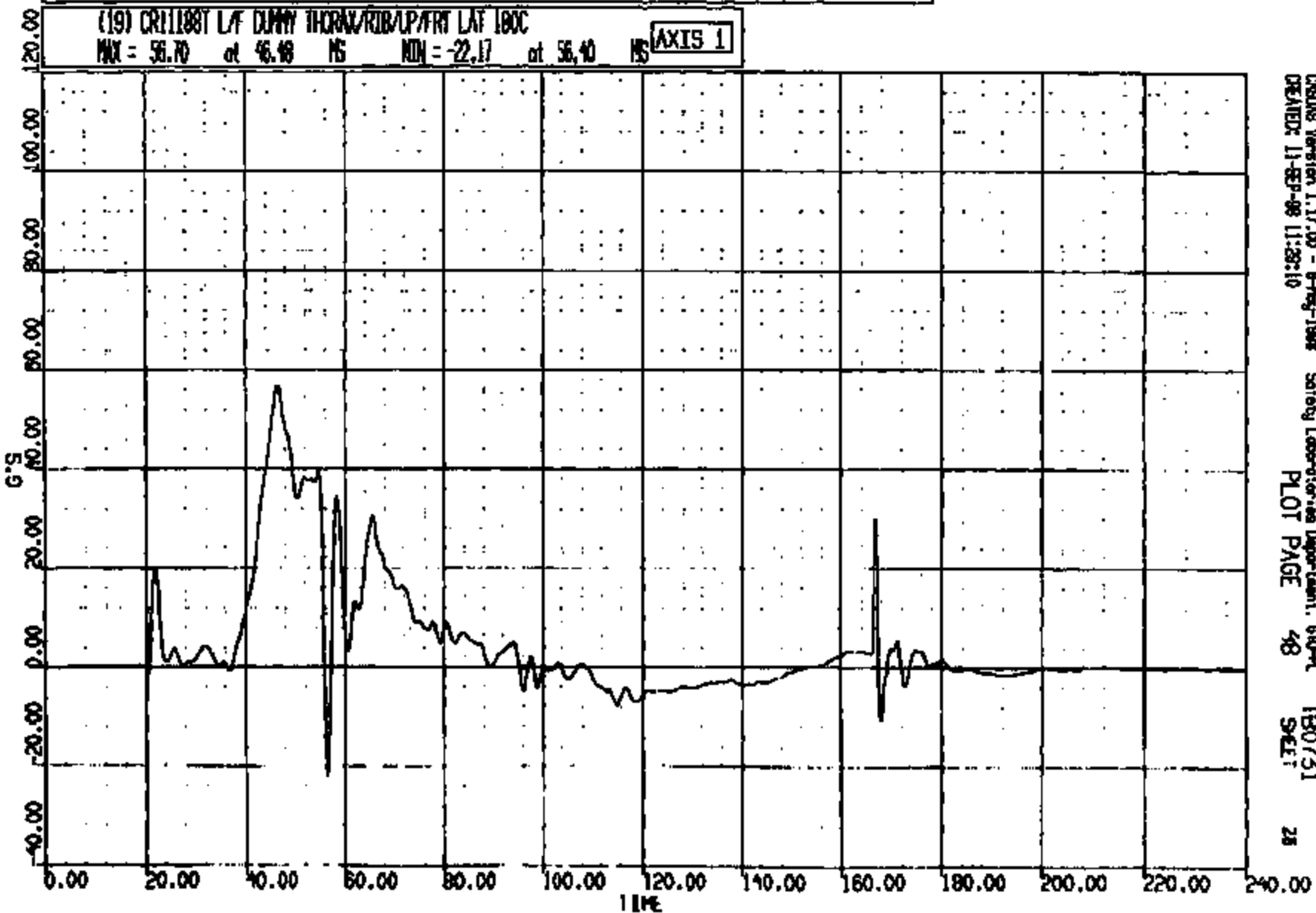
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CRIS 001188

CR R: 11188 TO: TB0731 DATE: 280811 10:50:43
1990 TOWN CAR

(19) CR11188T LF DUNN THORNTON/RIB/UP/FRY LAT 180C

MAX = 56.70 at 46.48 NS MIN = -22.17 at 56.40 NS



CRSNGS Version 1.17.00 - 8-May-1995
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Safety Laboratory Department, 610-A
PLOT PAGE 48

1B0731 26
SEE:

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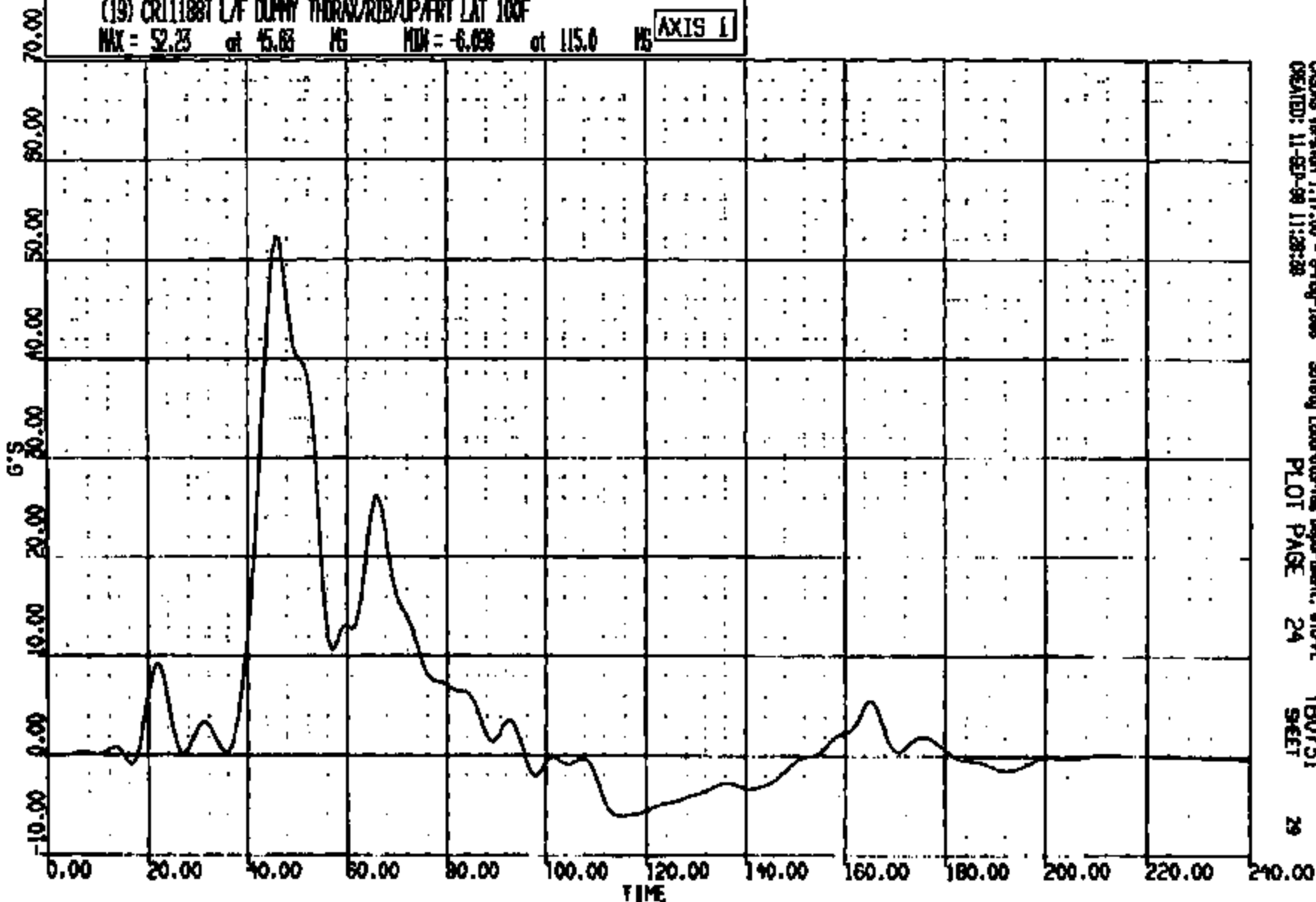
CRTS 0011188

CR R: 11188 TO: TB0731 DATE: 980811 10:50:48
1999 TOWN CAR

(19) CR11188T L/F DUMMY THORAX/RIB/UP/RT LAT 100F

MAX = 52.23 at 45.88 MS MIN = -6.098 at 115.0 MS

AXIS 1



CRASH Version 1.17.00 - 8-May-1998
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Safety Laboratories Department, 610-A
PLOT PAGE 24

TB0731
SHEET 29

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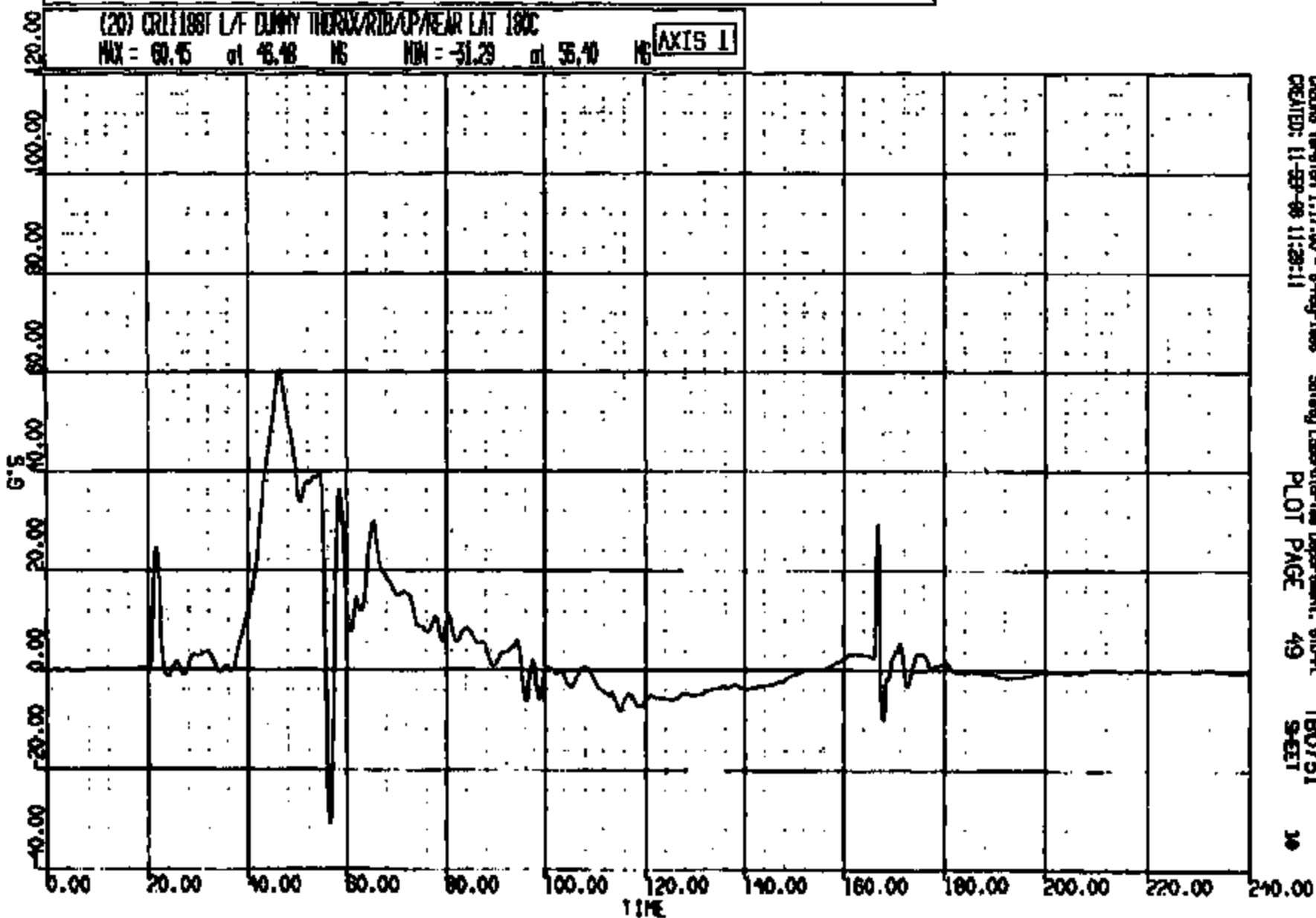
CR15 0011188

CR R: 11188 TC: TB0731 DATE: 080911 10:50:45
1999 TOWN CAR

(20) CR11188 L/F DUMMY THORAX/RIB/UP/REAR LAT 180C

MAX = 60.45 at 46.48 MS MIN = -31.29 at 56.40 MS

AXIS 1



CR1S 0011188

DEMS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:28:11

Safety Laboratory Department, 61D-A
PLOT PAGE 49 9-ET TB0731

10

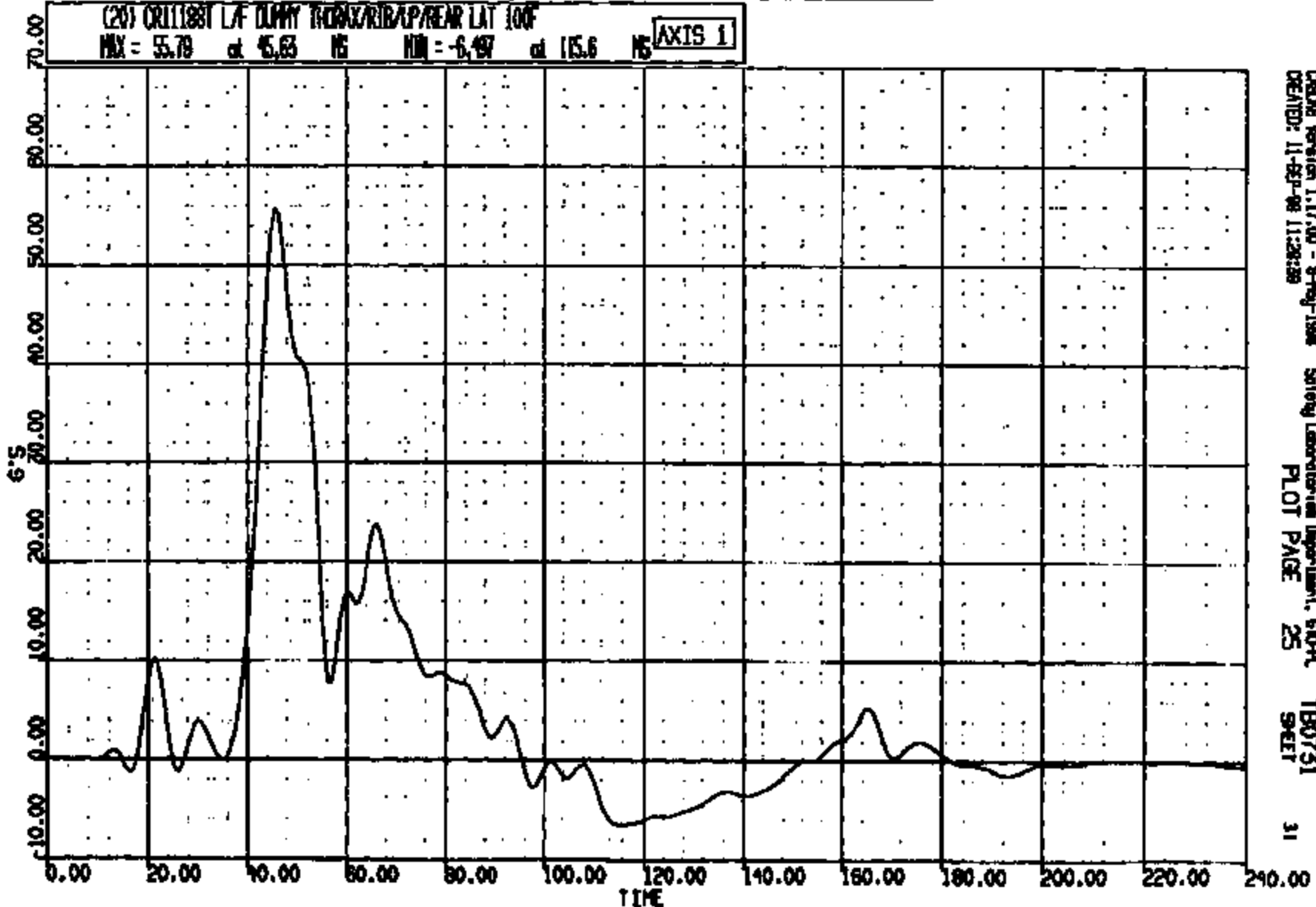
ENTIRE PAGE CONFIDENTIAL

CR R1 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(20) CR1188T LAF DUFFY THORAX/RIB/UP/REAR LAT 100F

MAX = 55.79 at 45.63 MS MIN = -6.497 at 115.6 MS

AXIS 1



CR006 Version 1.17.00 - 8-May-1998 Safety Laboratories Department, SIOA, TB0731
CREATED: 11-SEP-99 11:28:29 PLOT PAGE 25 SHEET

31

ENTIRE PAGE CONFIDENTIAL

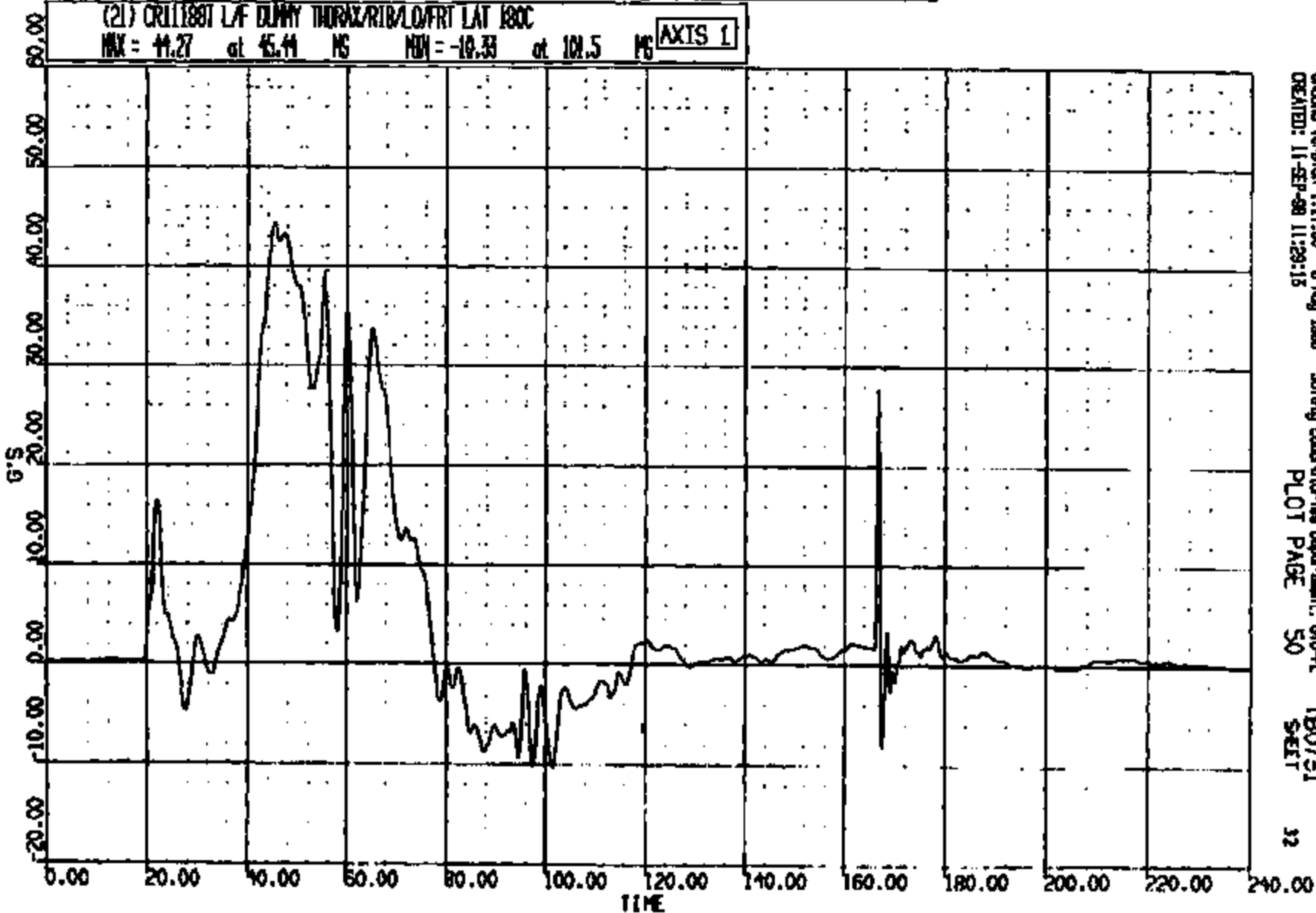
CR1S 001188

CR R: 11188 TO: TB0731 DATE: 980911 10:30:43
1999 TOWN CAR

(21) CR111887 L/F DUMMY THORAX/RIB/LOFRT LAT 180C

MAX = 44.27 at 45.44 MS MIN = -19.33 at 101.5 MS

AXIS 1



CADDS Version 1.17.00 - 8-May-1999
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Safety Laboratories Department, G10-91
PLOT PAGE 50

TB0731
SHEET

32

ENTIRE PAGE CONFIDENTIAL

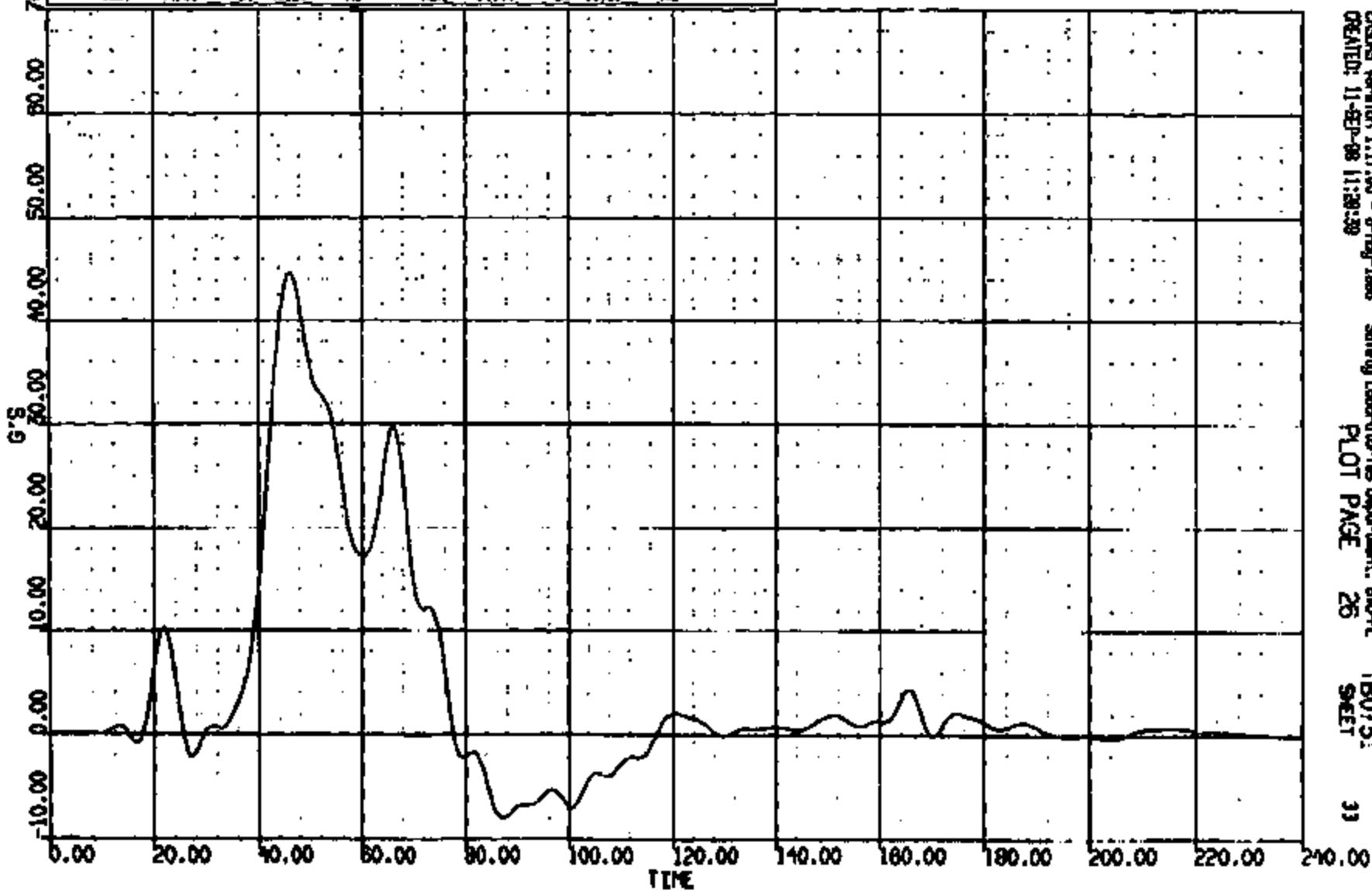
CR1S 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:30:43
1999 TOWN CAR

(21) CR11881 L/F DUMMY THORAX/RIB/LOAFRT LAT 100F

MAX = 41.58 at 46.25 MS MIN = -8.009 at 85.08 MS

AXIS 1



CHS Version 1.17.00 - 8-May-1998
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Safety Laboratories Department, 610-A
PLOT PAGE 26

TB0731
SHEET 33

ENTIRE PAGE CONFIDENTIAL

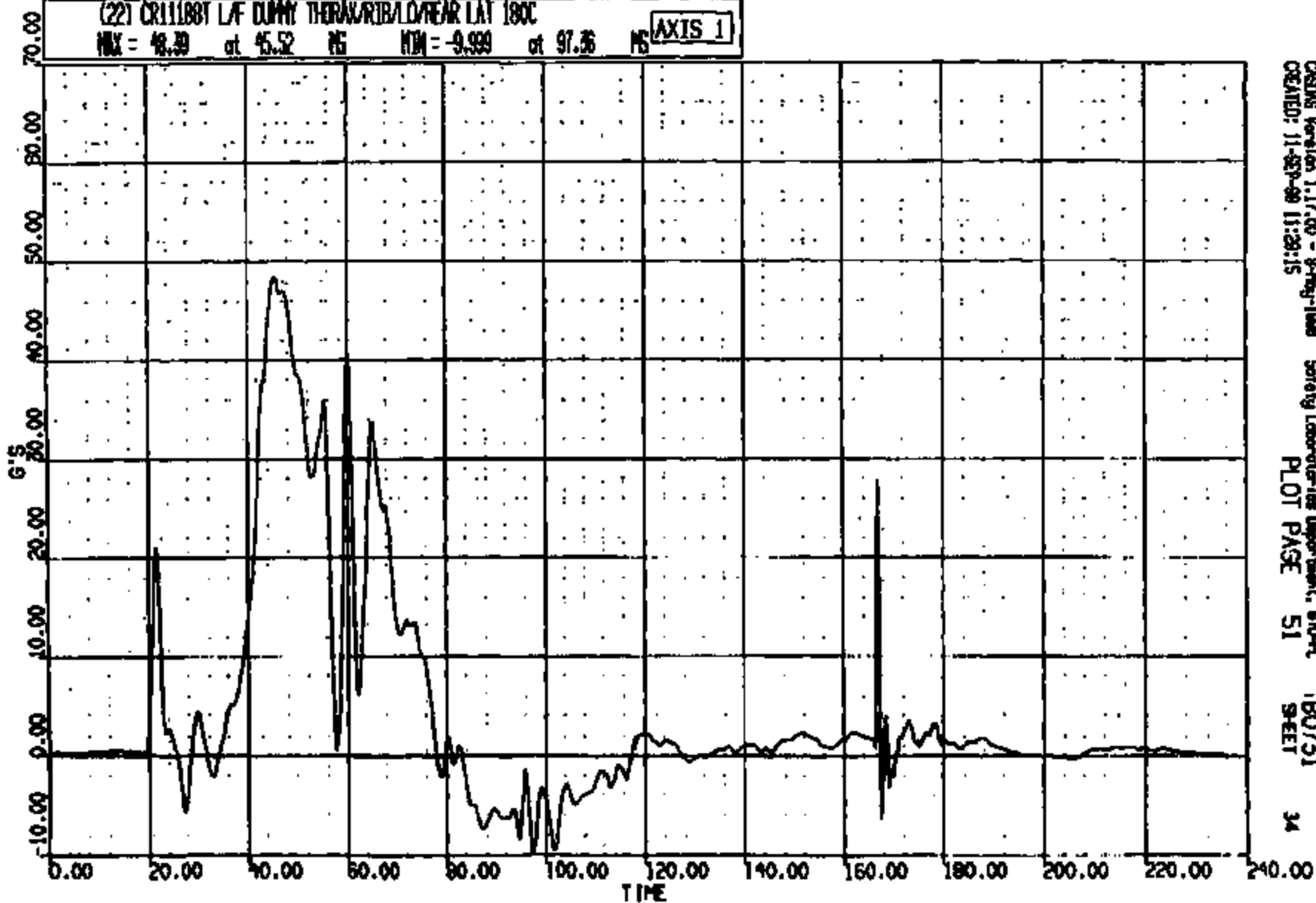
CR1S 0011188

CR #: 11188 TO: TB0731 DATE: 990911 10:50:48
1999 TOWN CAR

(22) CR11188T LAF DUMMY THORAX/HEAD/NEAR LAT 180C

MAX = 48.39 at 45.52 MS MIN = -9.999 at 97.36 MS

AXIS 1



CHS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:28:15

Safety Laboratories Department, 670-A
PLOT PAGE 51

TB0731
SHEET

34

ENTIRE PAGE CONFIDENTIAL

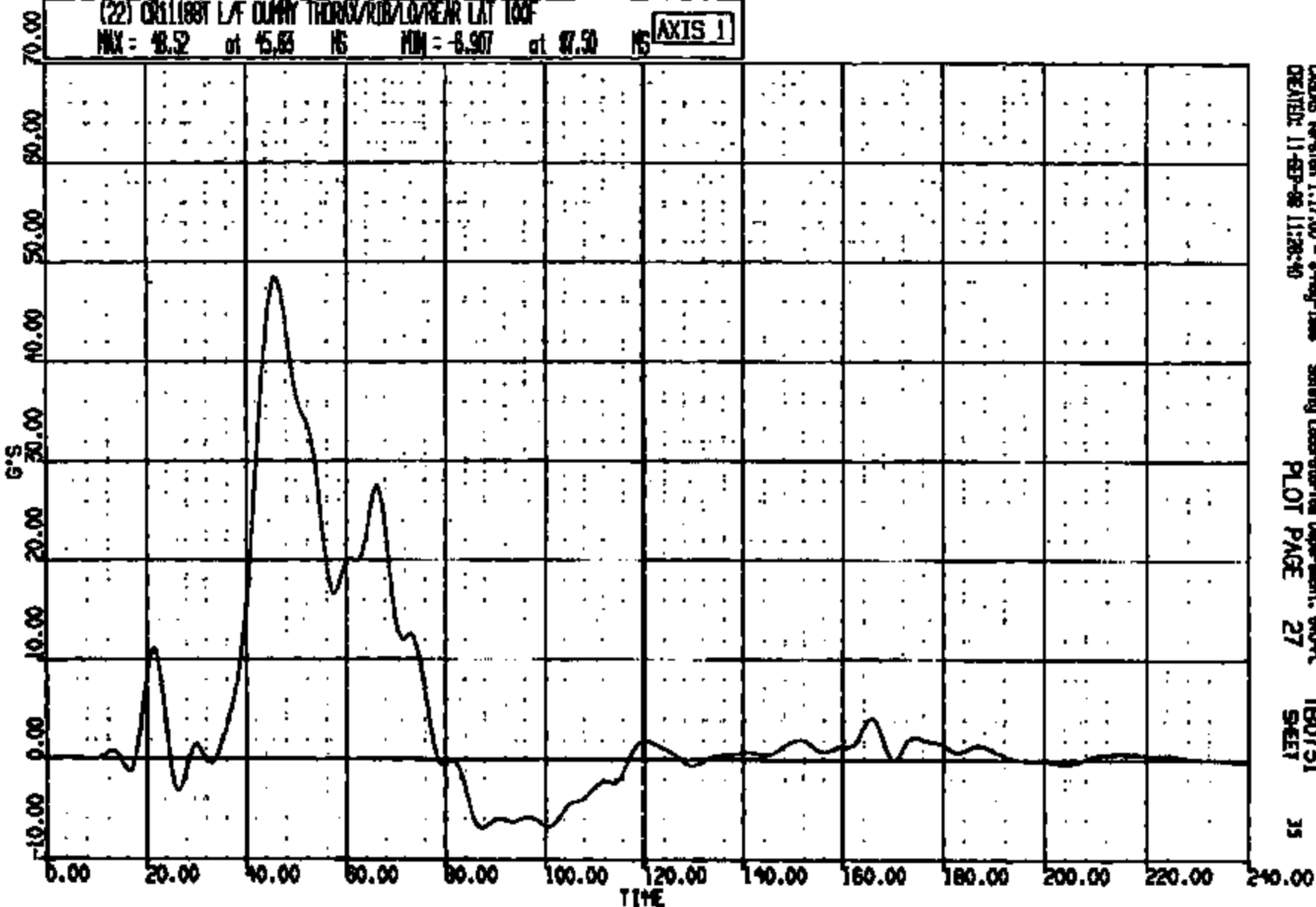
CR1S 0011188

CR R: 11188 TO: T80731 DATE: 980911 10:50:43
1999 TOWN CAR

(22) CR11188T L/F DUMMY THORAX/RIB/LOW REAR LAT LOOF

MAX = 48.52 at 45.83 MS MIN = -8.907 at 87.50 MS

AXIS 1



CR15 0011188

CRASH Version 1.17.00 - 8-May-1998
CREATED 11-SEP-98 11:28:40

Safety Laboratory Department, SRO-PL
PLOT PAGE 27

T80731
SHEET 35

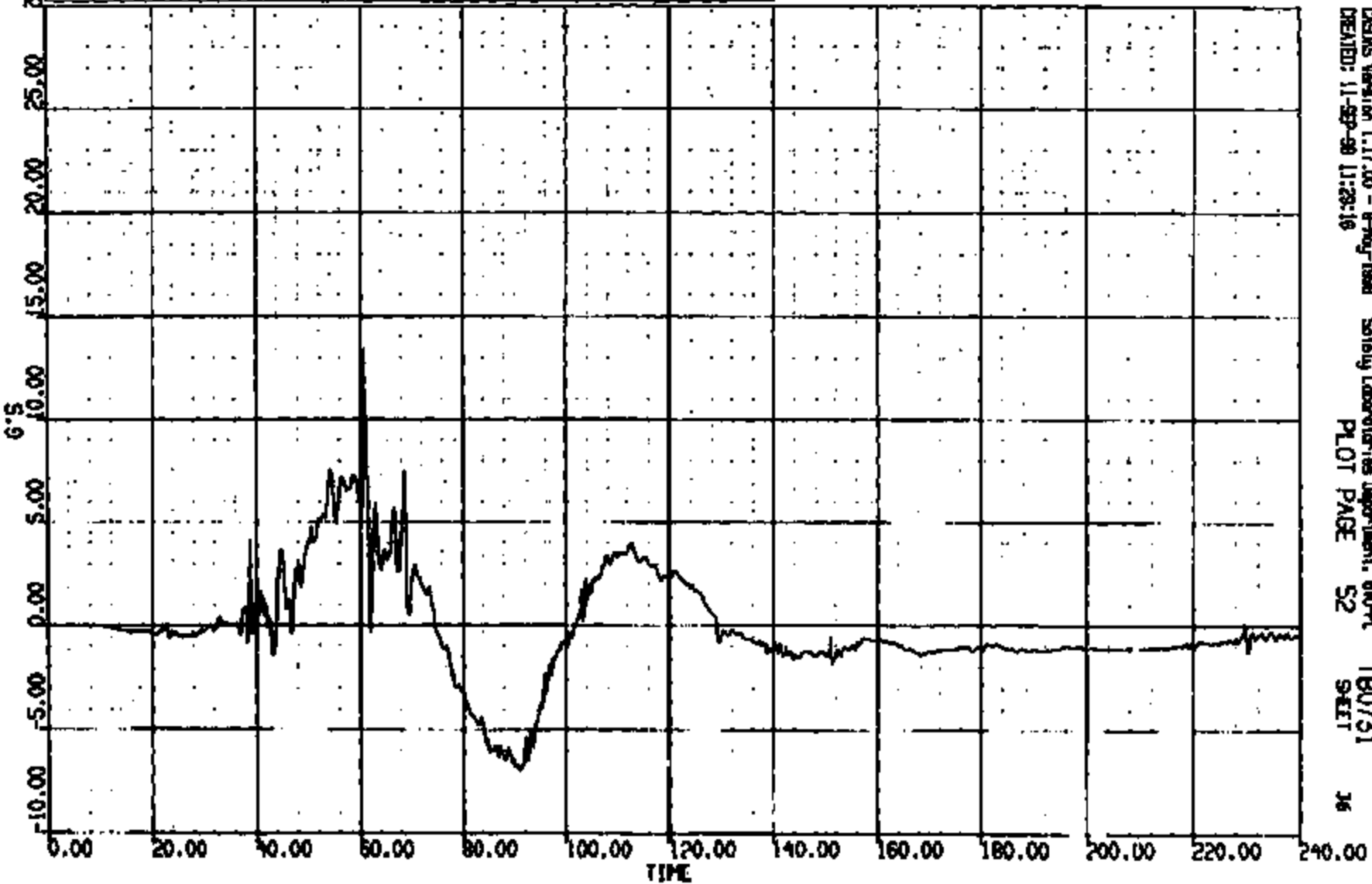
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: TB0731 DATE: 980811 10:50:48
1999 TOWN CAR

(23) CR11188T L/F DUMMY PELVIS LONG 1000C

MAX = 13.46 at 60.72 MS MIN = -6.988 at 91.04 MS

AXIS 1



CRASH Version 1.17.00 - 8-Aug-1998
CREATED: 11-SEP-98 11:28:16

Safety Laboratories Department, 610-PL
PLOT PAGE 52

TB0731
SET 16

ENTIRE PAGE CONFIDENTIAL

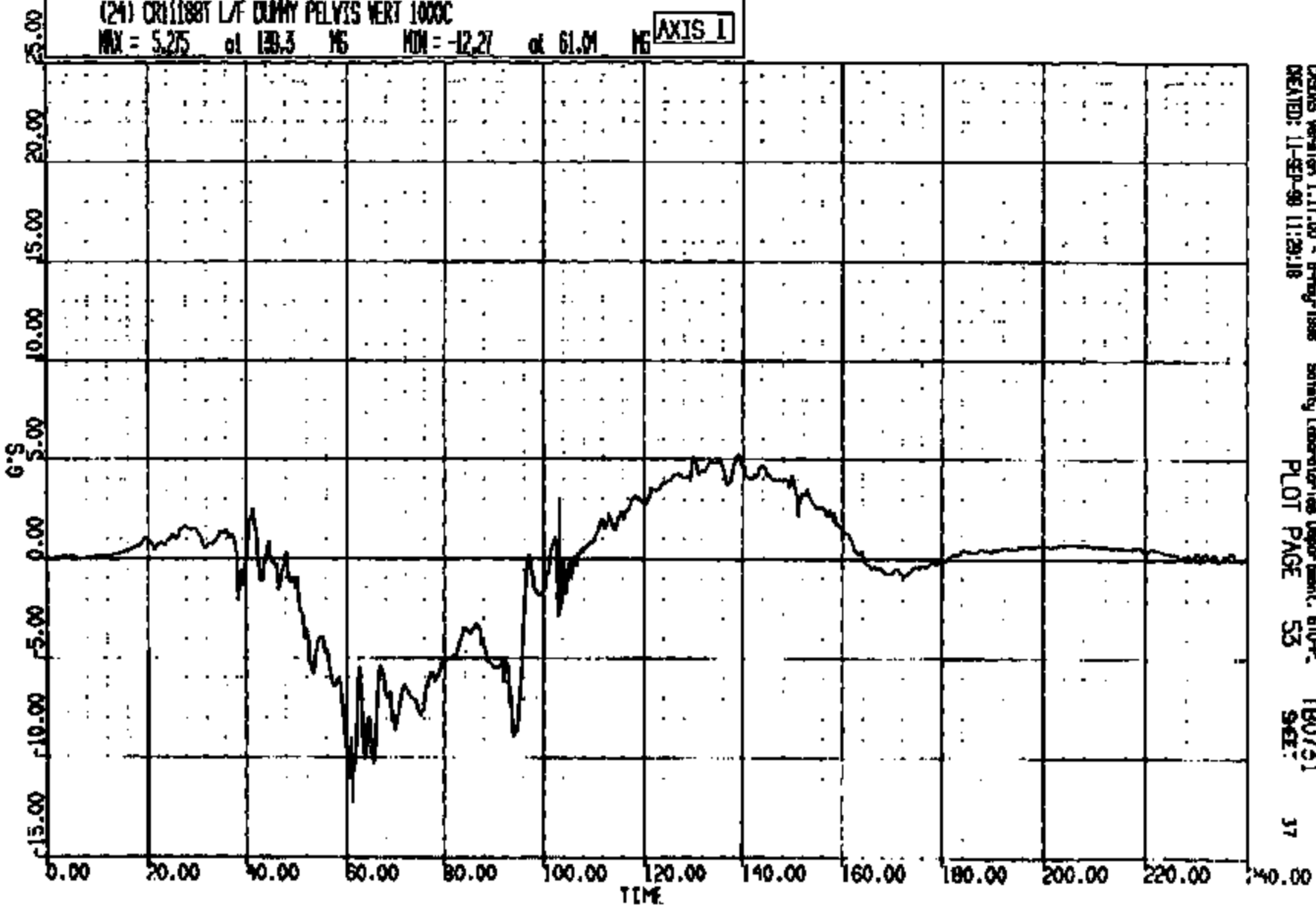
CR1S 0011188

CR R: 11188 TO: T80751 DATE: 980911 10:50:48
1999 TOWN CAR

(24) CR1188T L/F DUMMY PELVIS VERT 1000C

MAX = 5.275 at 130.3 MS MIN = -12.27 at 61.01 MS

AXIS 1



CASAS Version 1.17.00 - B-Hug-1998
CREATED: 11-SEP-98 11:29:18

Safety Laboratories Department, 610-P,
PLOT PAGE 53

T80751
SER:

37

ENTIRE PAGE CONFIDENTIAL

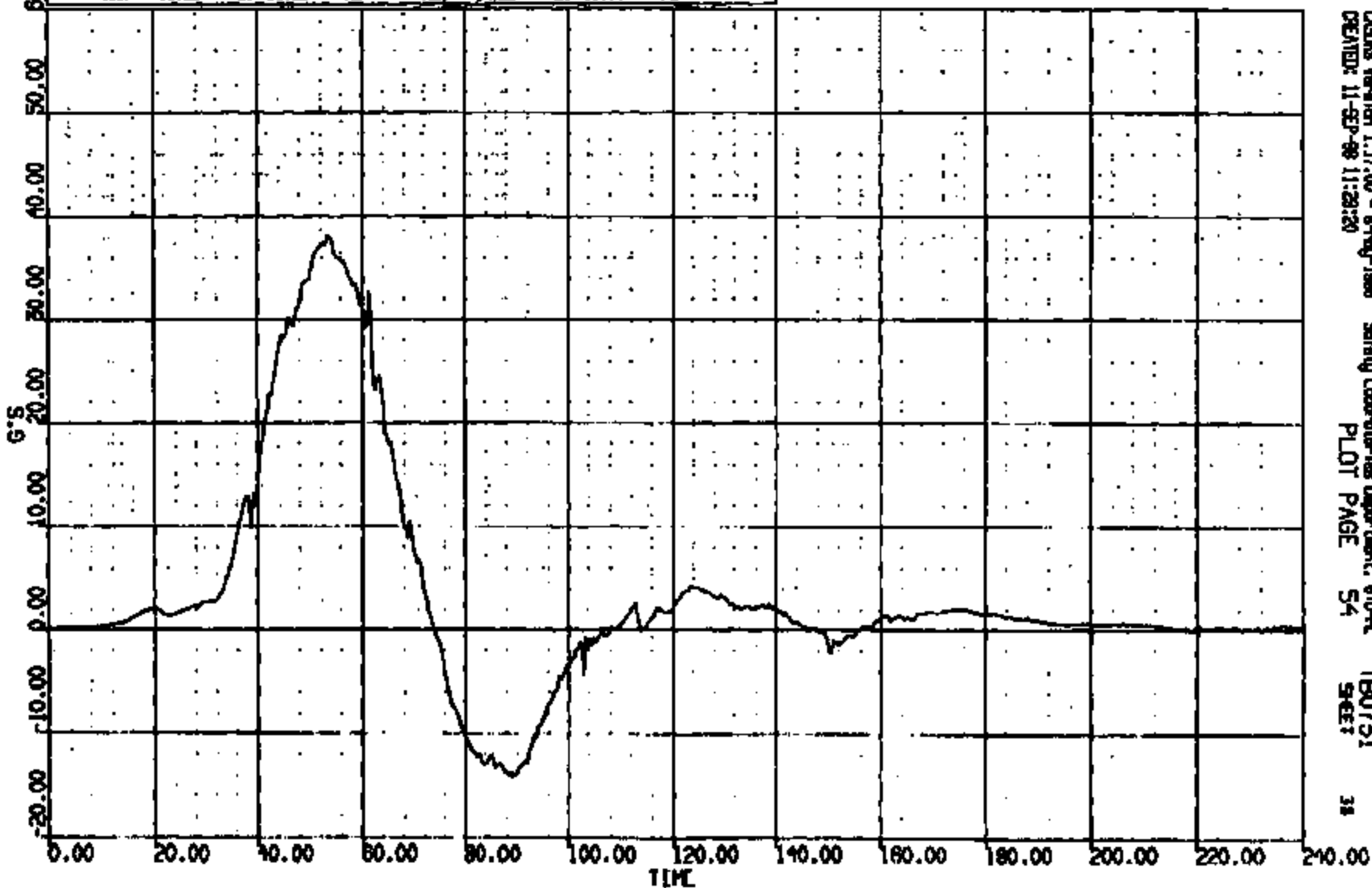
CRIS 001188

CR R: 11188 TO: TB0731 DATE: 280211 10:50:43
1999 TOWN CAR

(25) CR111881 L/F DUMMY PELVIS/LAT ROOC

MAX = 38.02 at 53.52 MS MIN = -14.21 at 88.80 MS

AXIS 1



CRASH Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:28:20

Safety Laboratories Department, 610-A
PLOT PAGE 54

TB0731
SHEET

38

ENTIRE PAGE CONFIDENTIAL

CR1S 0011188

CR R: 11188 TC: T80731 DATE: 990911 10:50:48
1999 TOWN CAR

(25) CR118801 L/F DUNN PELVIS/L LAT 100F

MAX = 37.49 at 53.13 HS MIN = -13.81 at 83.38 HS

AXIS 1



CADDS Version 1.17.00 - 8-May-1998
CREATED: U-50-88 11:38:41

Safety Laboratory Department, ETO-9
PLOT PAGE 28

T80731
SHEET

39

ENTIRE PAGE CONFIDENTIAL

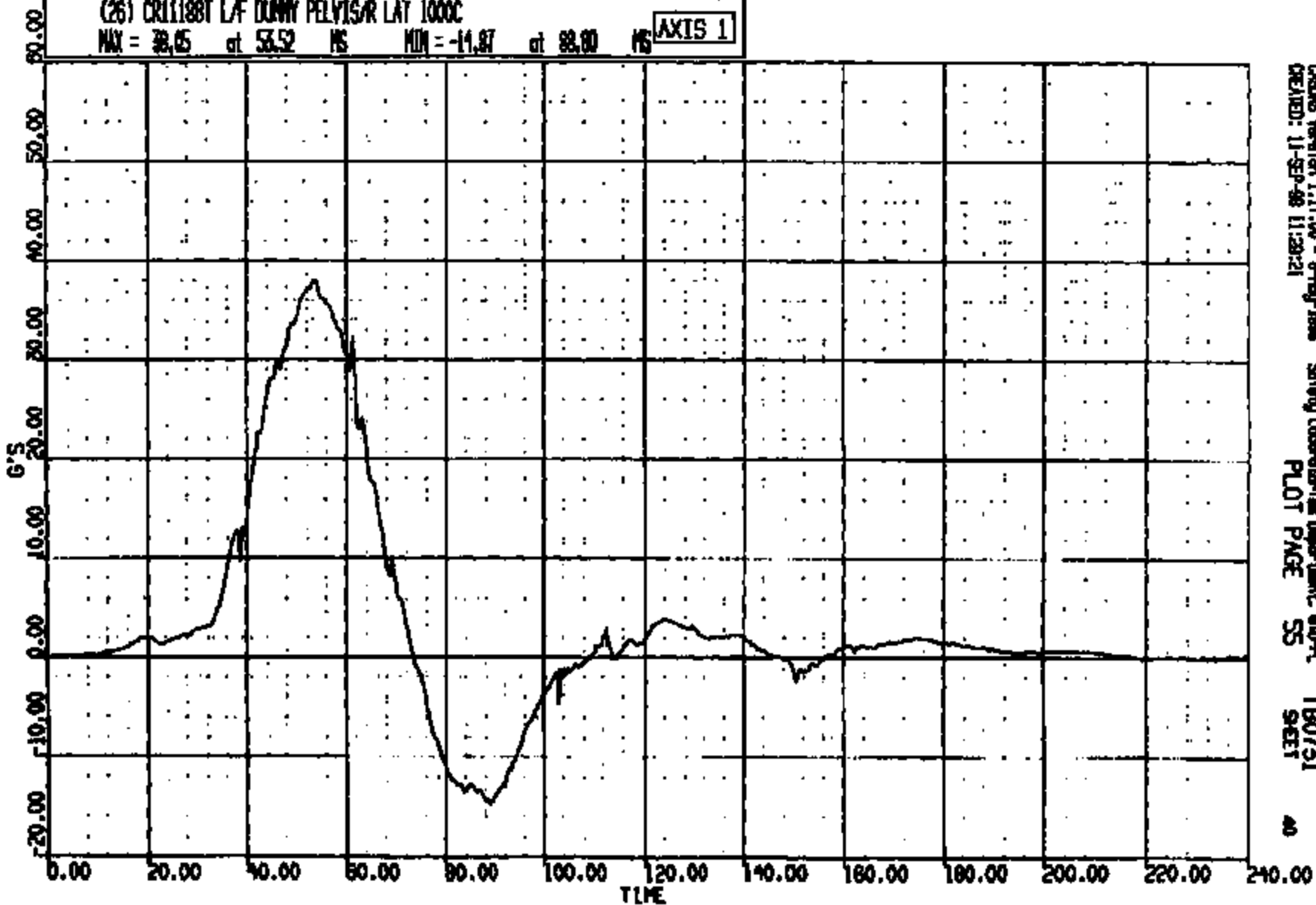
CRIS 001188

CR R: 11199 TO: TB0731 DATE: 990911 10:50:45
1999 TOWN CAR

(26) CR11188T LAF DUNNY PELVIS/R LAT 1000C

MAX = 38.05 at 53.52 MS MIN = -14.87 at 88.00 MS

AXIS 1



CADMS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:28:21

Safety Laboratories Department, 600-A,
PLOT PAGE 55

TB0731
SHEET 40

ENTIRE PAGE CONFIDENTIAL

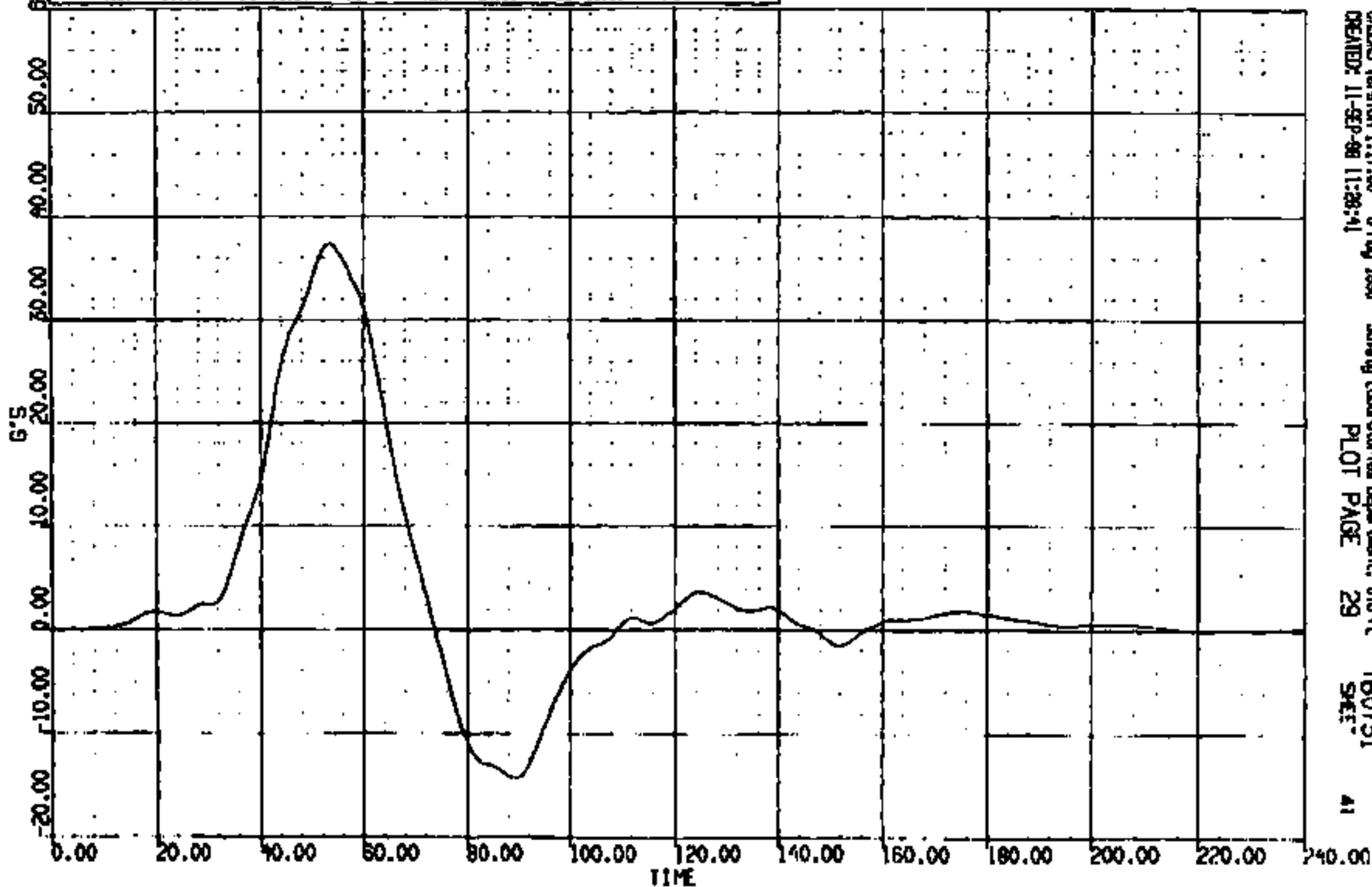
CR1S 0011188

CR R: 11188 TO: T80751 DATE: 980911 10:50:43
1999 TOWN CAR

(26) CR11188T L/F DUMMY PELVIS/R LAT ROOF

MAX = 37.36 at 53.13 MS MIN = -14.30 at 83.38 MS

AXIS 1



CRTS 0011188

CASAS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-98 11:28:41

Safety Laboratories Department, 670-A
PLOT PAGE 29

T80751
SHEET 41

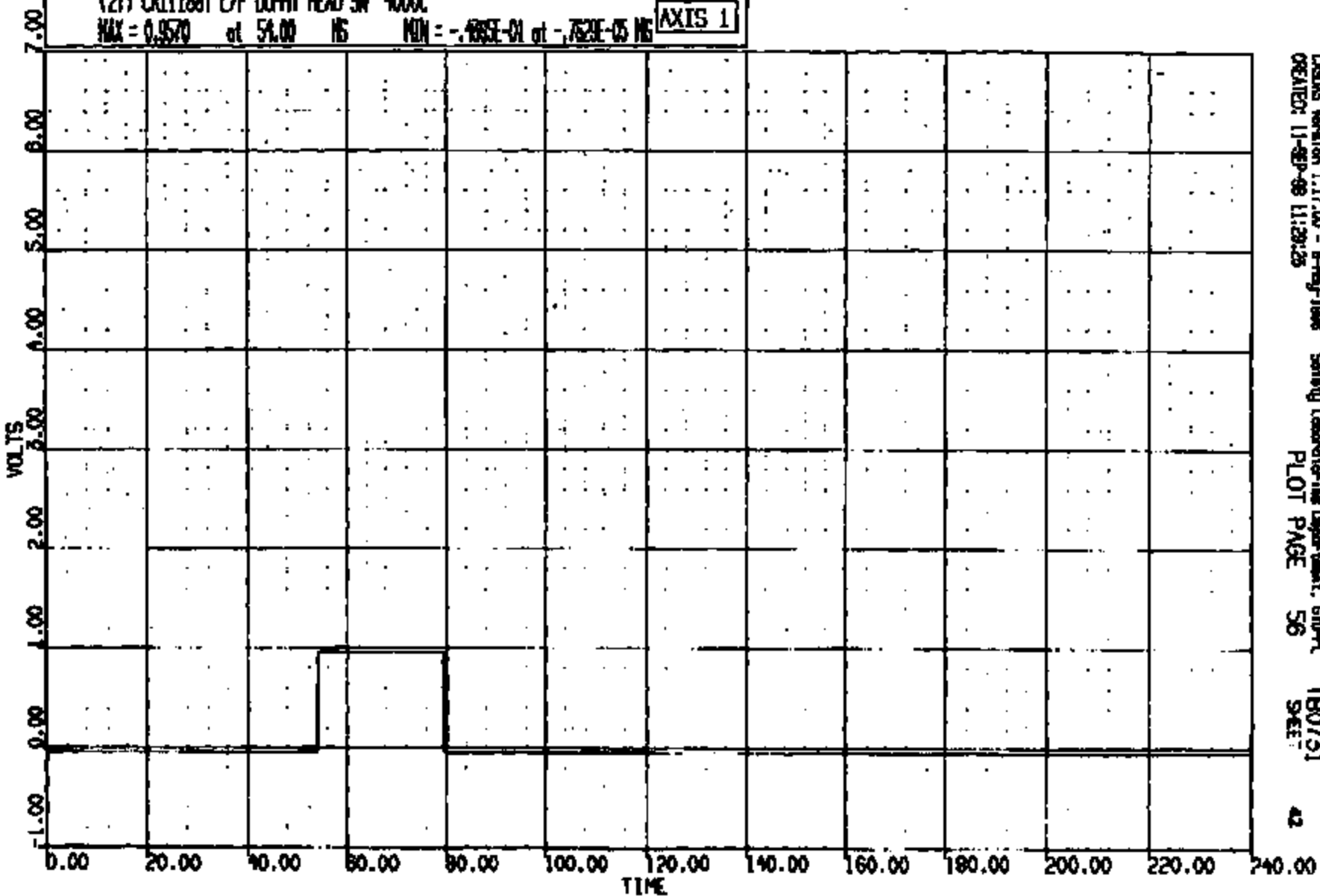
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: T80731 DATE: 880911 10:50:48
1999 TOWN CAR

(27) CR1188T L/F DUMMY HEAD SN 4000C

MAX = 0.9570 at 54.00 MS MIN = -.485E-01 at -.752E-05 MS

AXIS 1



CRS005 Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:29:25

Safety Laboratory Inc. Dayton, OH 45424
PLOT PAGE 56

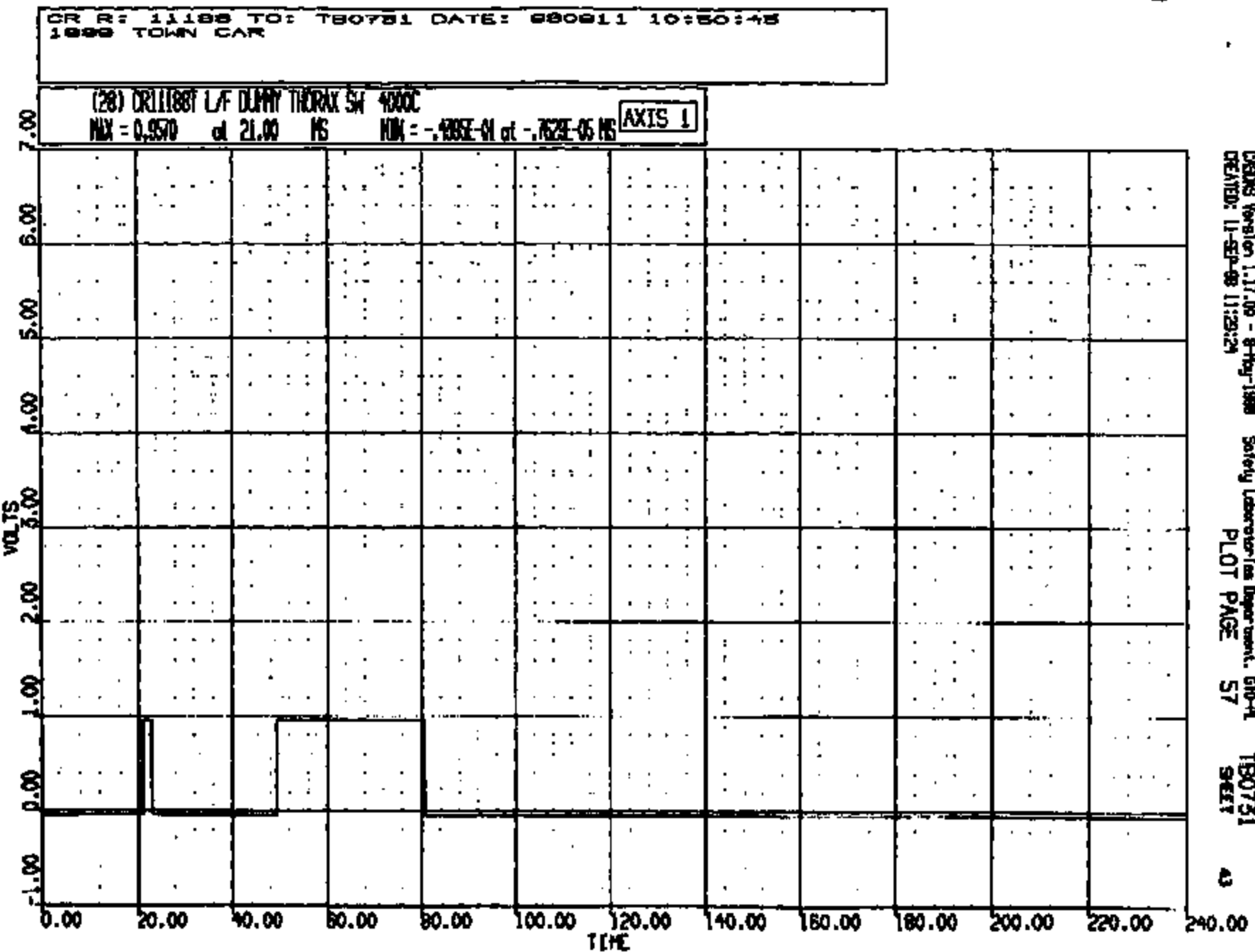
T80731
SEE

42

ENTIRE PAGE CONFIDENTIAL

CRIS 001188

CHRS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-A
CREATED: 11-SEP-98 11:23:24 PLOT PAGE 57 SET 43



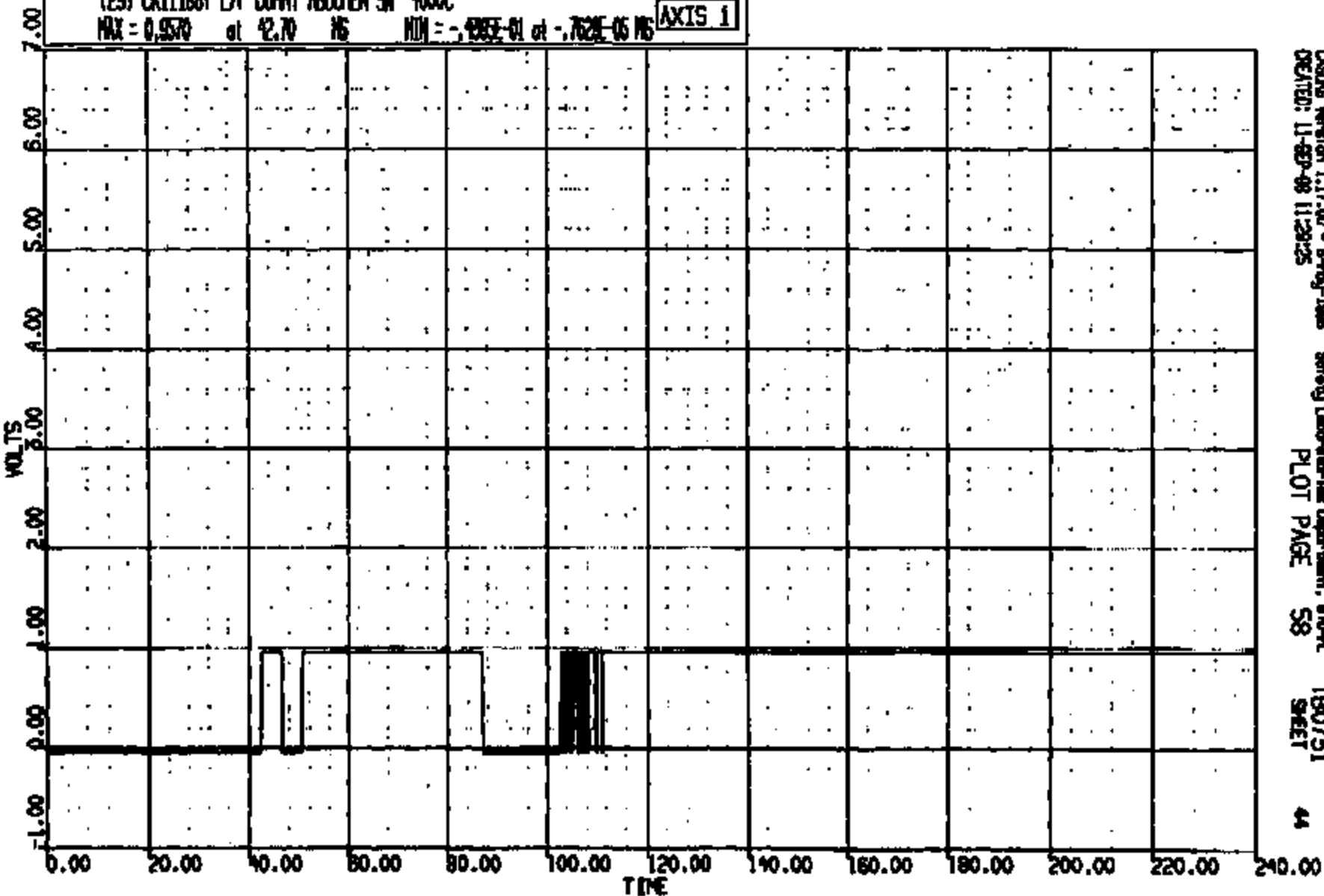
CR15 0011188

CR RI 11188 TO: T80751 DATE: 980811 10:50:43
1999 TOWN CAR

(29) CR111887 LAF DUMMY ABDOEN SN 4000C

MAX = 0.9570 at 42.70 MS MIN = -.4953-01 at -.762E-05 MS

AXIS 1



CRIS 001188

CASMS Version 1.17.00 - 8-Feb-1998
CREATED: 11-SEP-98 11:29:25

Safety Laboratories Department, 870-A
PLOT PAGE 58

T80751
SHEET

44

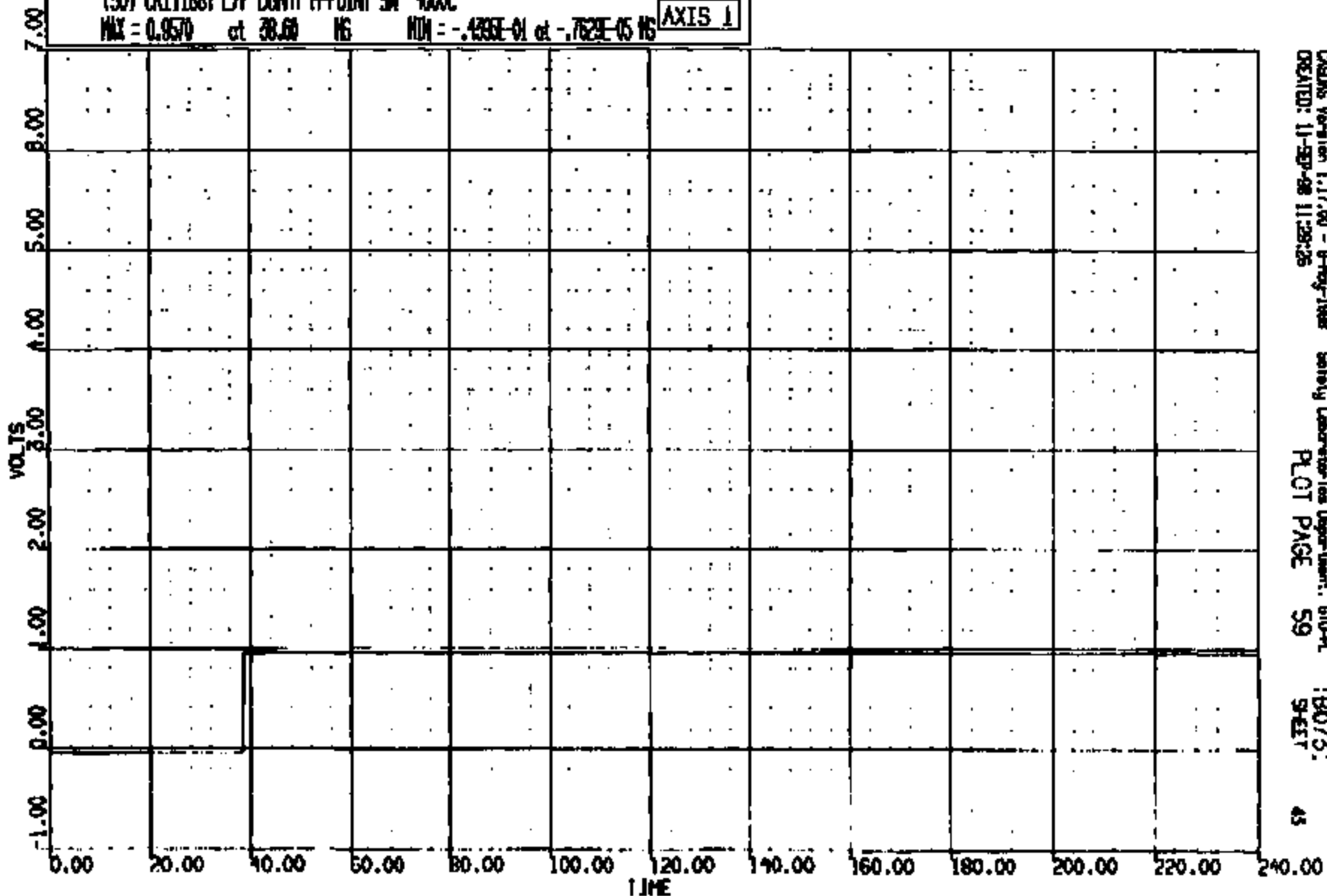
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: T80731 DATE: 990911 10:50:43
1999 TOWN CAR

(30) CRT11881 L/F DUNN H-POINT SM 4000C

MAX = 0.9570 at 38.60 NS MIN = -.433E-01 at -.762E-05 NS

AXIS 1



CADDS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:29:25

Safety Laboratory Inc Department: 610-A
PLOT PAGE 59

T80731
SHEET 43

ENTIRE PAGE CONFIDENTIAL

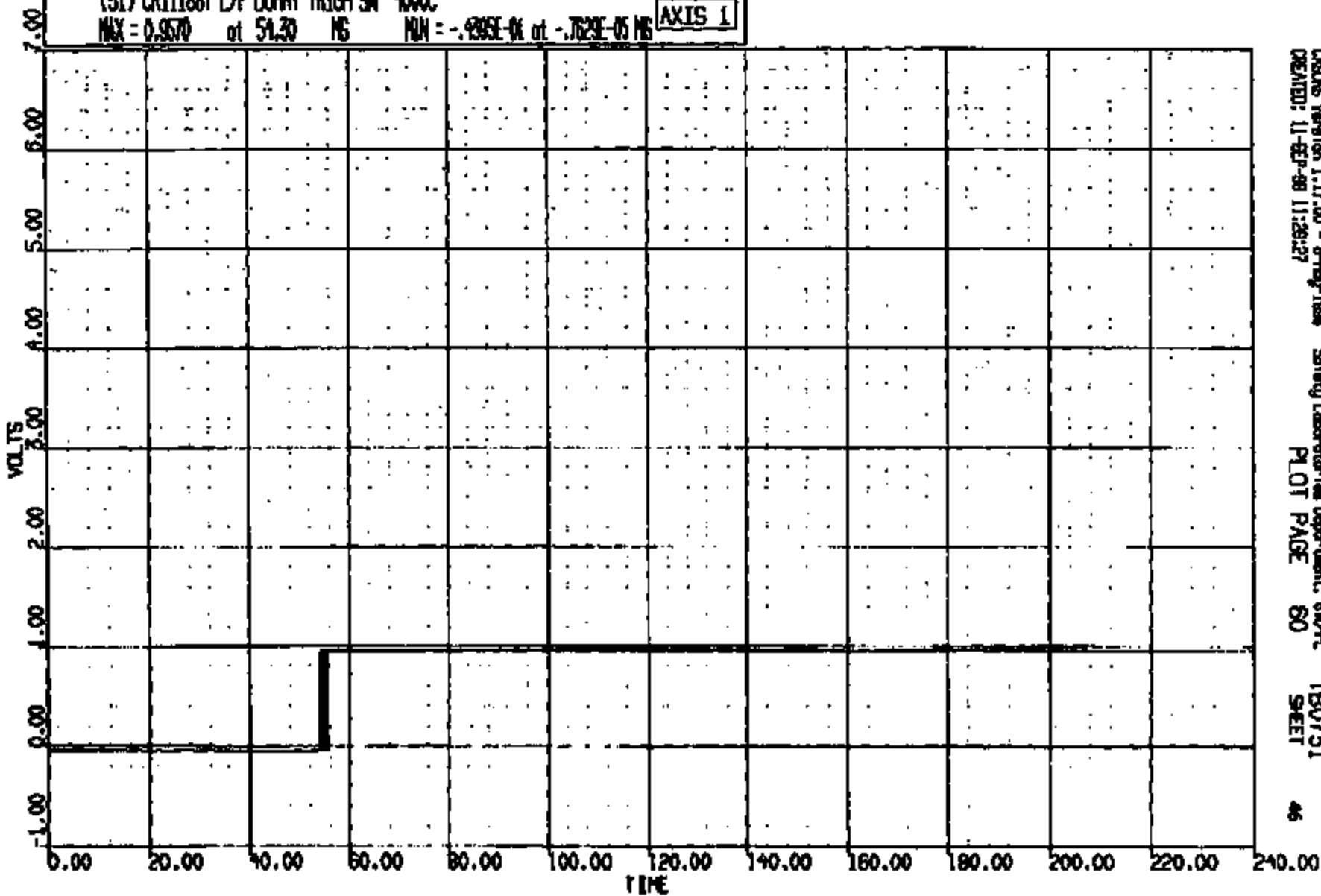
CRTS 0011188

CR R: 11188 TO: TB0731 DATE: 880911 10:50:48
1988 TOWN CAR

(31) CR11188T L/F DUNNY TRUCK SM 4000C

MAX = 0.9570 at 54.30 MS MIN = -.935E-04 at -.7629E-05 MS

AXIS 1



CASUS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:29:27

Safety Laboratories Department, SMDA
PLOT PAGE 60

TB0731
SHEET 46

ENTIRE PAGE CONFIDENTIAL

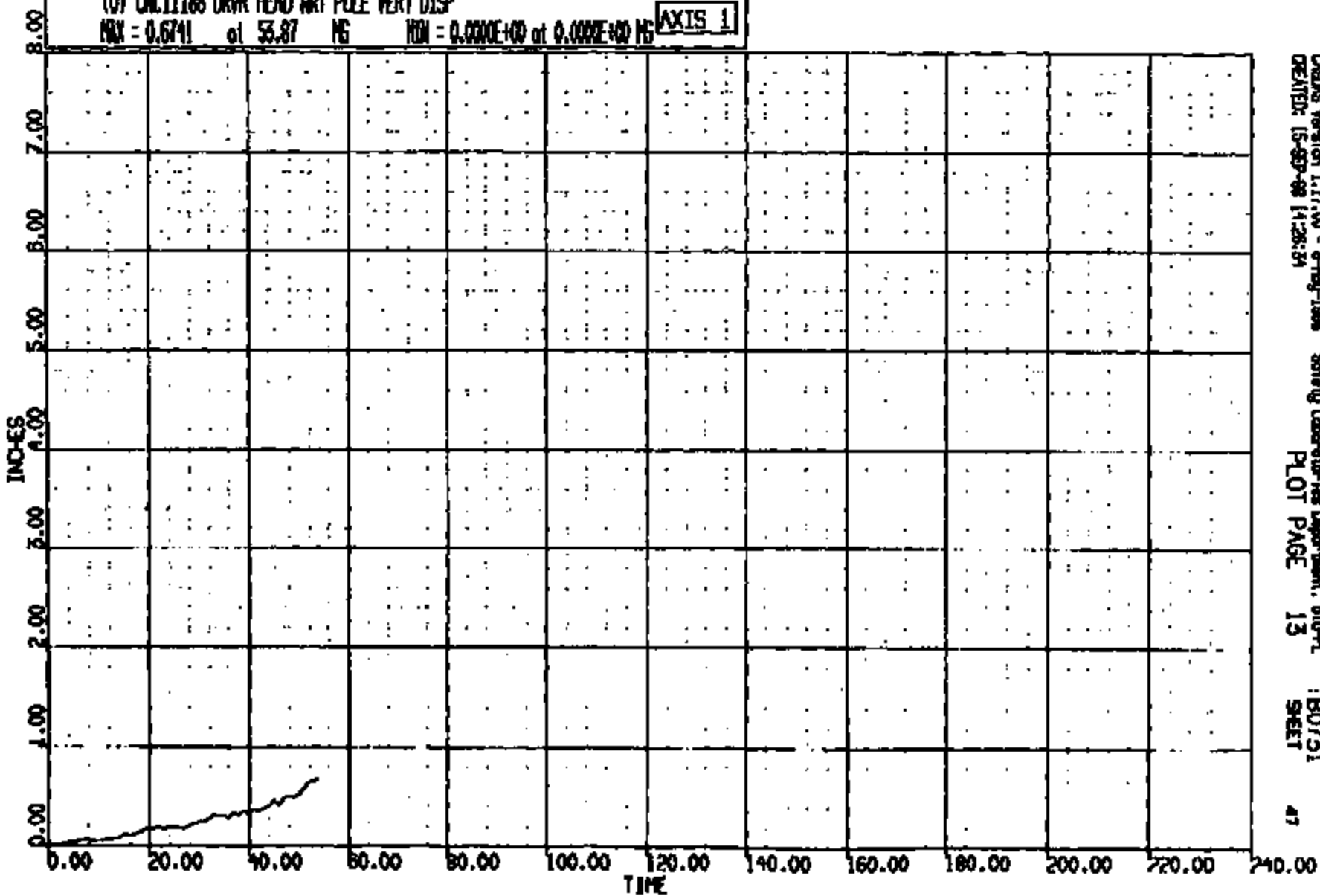
CRIS 0011188

CR R: 11188 TO: TBO731 DATE: 980911 10:50:43
1998 TOWN CAR

(0) CR11188 DRIVER HEAD WRT POLE VERT DISP

MAX = 0.6741 at 53.87 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CRASH Version 1.17.00 - 8-May-1998
CREATED: 15-SEP-98 14:28:34

Safety Laboratories Department, 610-A
PLOT PAGE 13

TBO731
SHEET 47

ENTIRE PAGE CONFIDENTIAL

CR1S 0011188

CR R: 11188 TO: TB0751 DATE: 990911 10:50:45
1999 TOWN CAR

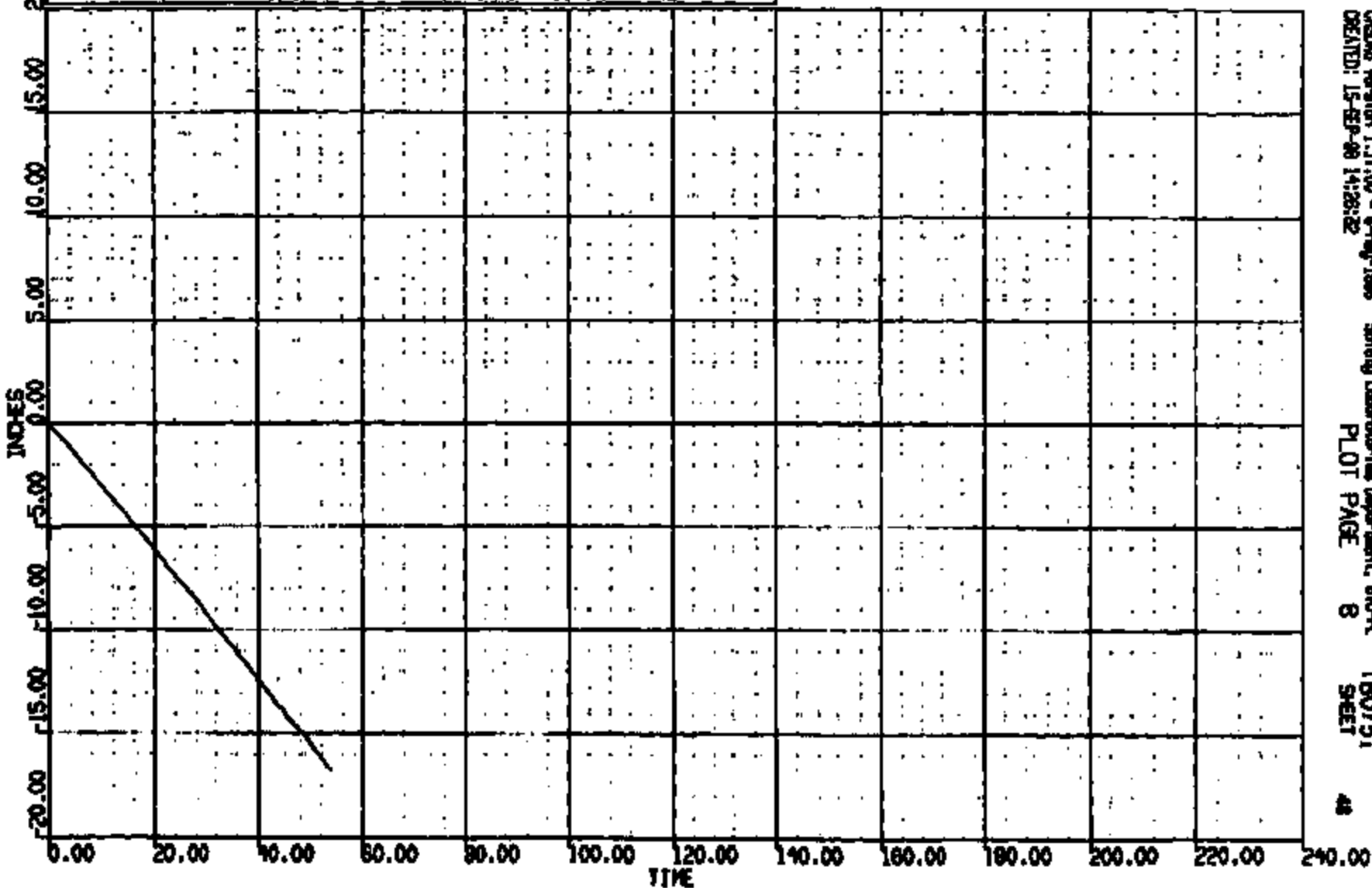
(0) CR11188 DRVR HEAD WRT POLE LAT 015P

MAX = 0.0000E+00 at 0.0000E+00 MS

MIN = -16.81

at 53.87

MS **AXIS 1**



CRASH Version 1.17.00 - 8-May-1999
CREATED: 15-SEP-99 14:28:32

Safety Laboratories Department, 610-PL
PLOT PAGE 8

TB0751
SHEET

48

ENTIRE PAGE CONFIDENTIAL

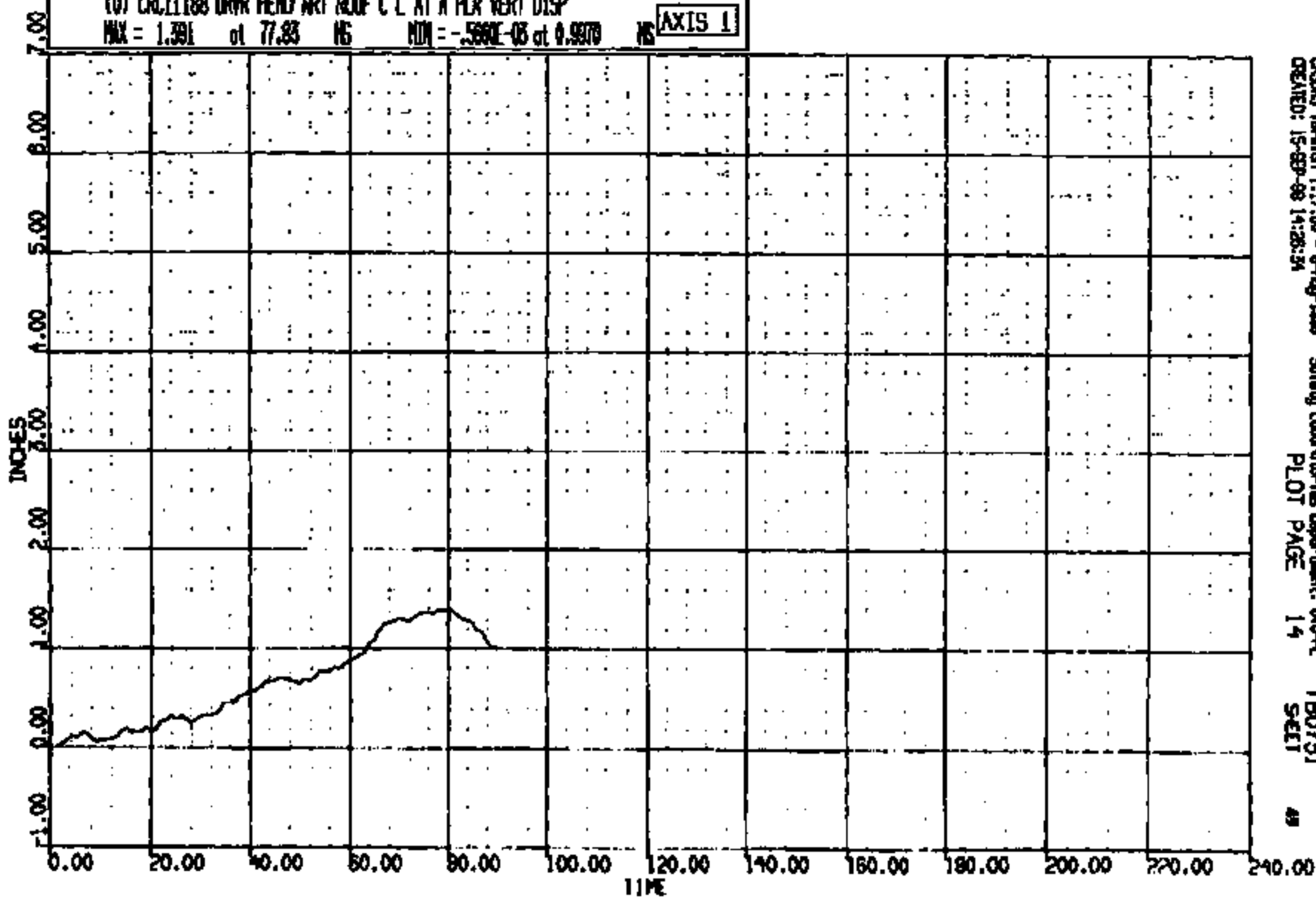
CR11188

CR RI 11188 TO: TB0731 DATE: 080811 10:50:43
1998 TOWN CAR

(0) CR011188 DRVR HEAD RT ROOF C L AT A PLR VERT DISP

MAX = 1.391 at 77.83 MS MIN = -.560E-05 at 0.9870 MS

AXIS 1



CASAS Version 1.17.00 - 8-Aug-1998
CREATED: 15-SEP-98 14:28:34

Safety Laboratories Department, 600-A
PLOT PAGE 14

TB0731
SET1

49

ENTIRE PAGE CONFIDENTIAL

CRIS 0011188

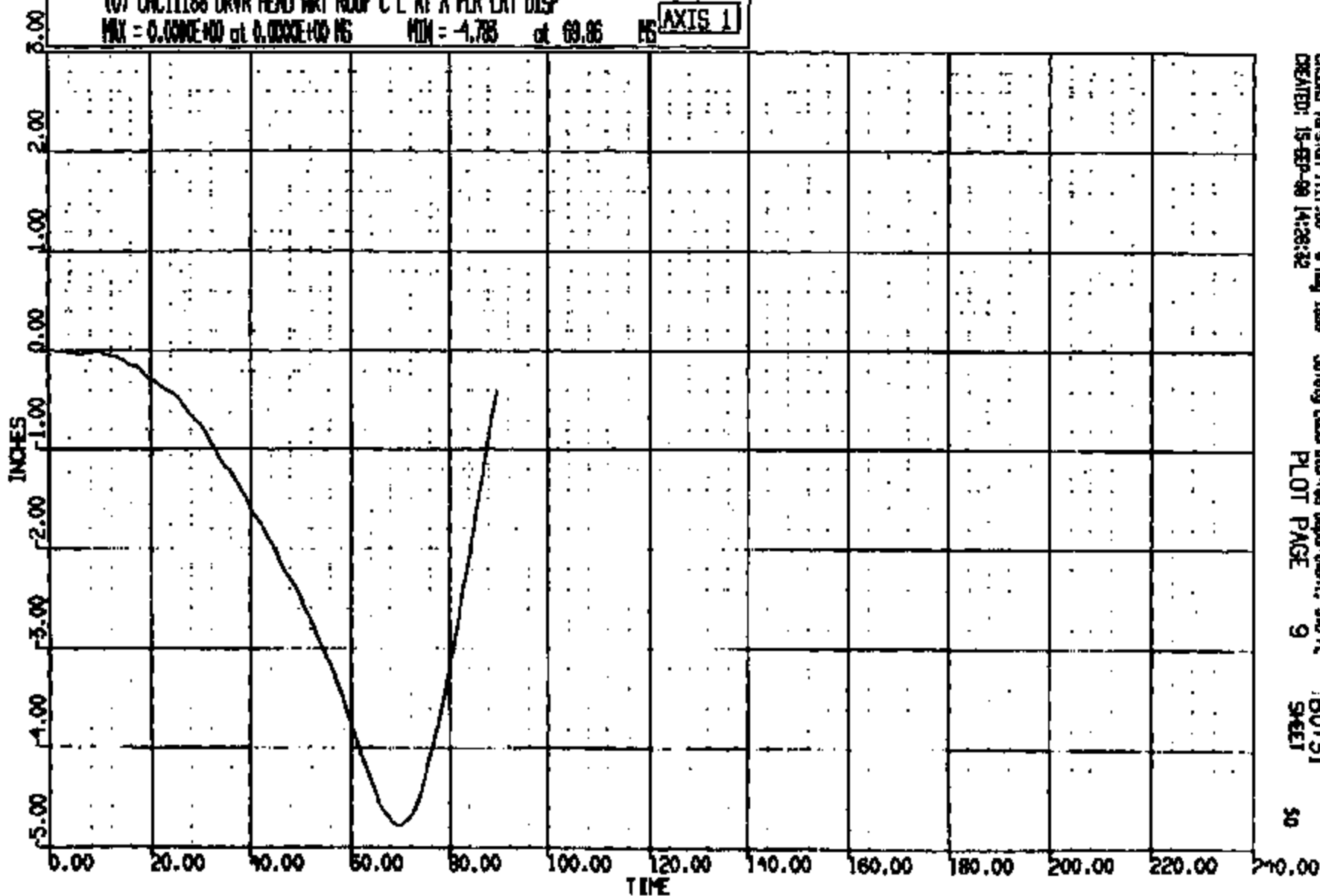
CR R: 11188 TO: TB0731 DATE: 980811 10:50:43
1999 TOWN CAR

(0) CR011188 DRVR HEAD WRT ROOF C L AT A PLR LAT DISP

MAX = 0.000E+00 at 0.000E+00 MS

MIN = -4.785 at 69.86 MS

AXIS 1



CHS05 Version 1.17.00 - 8-May-1998
CREATED: 15-SEP-98 14:28:32

Safety Laboratory Department, SIO-A
PLOT PAGE 9

TB0731
SHEET 50

ENTIRE PAGE CONFIDENTIAL

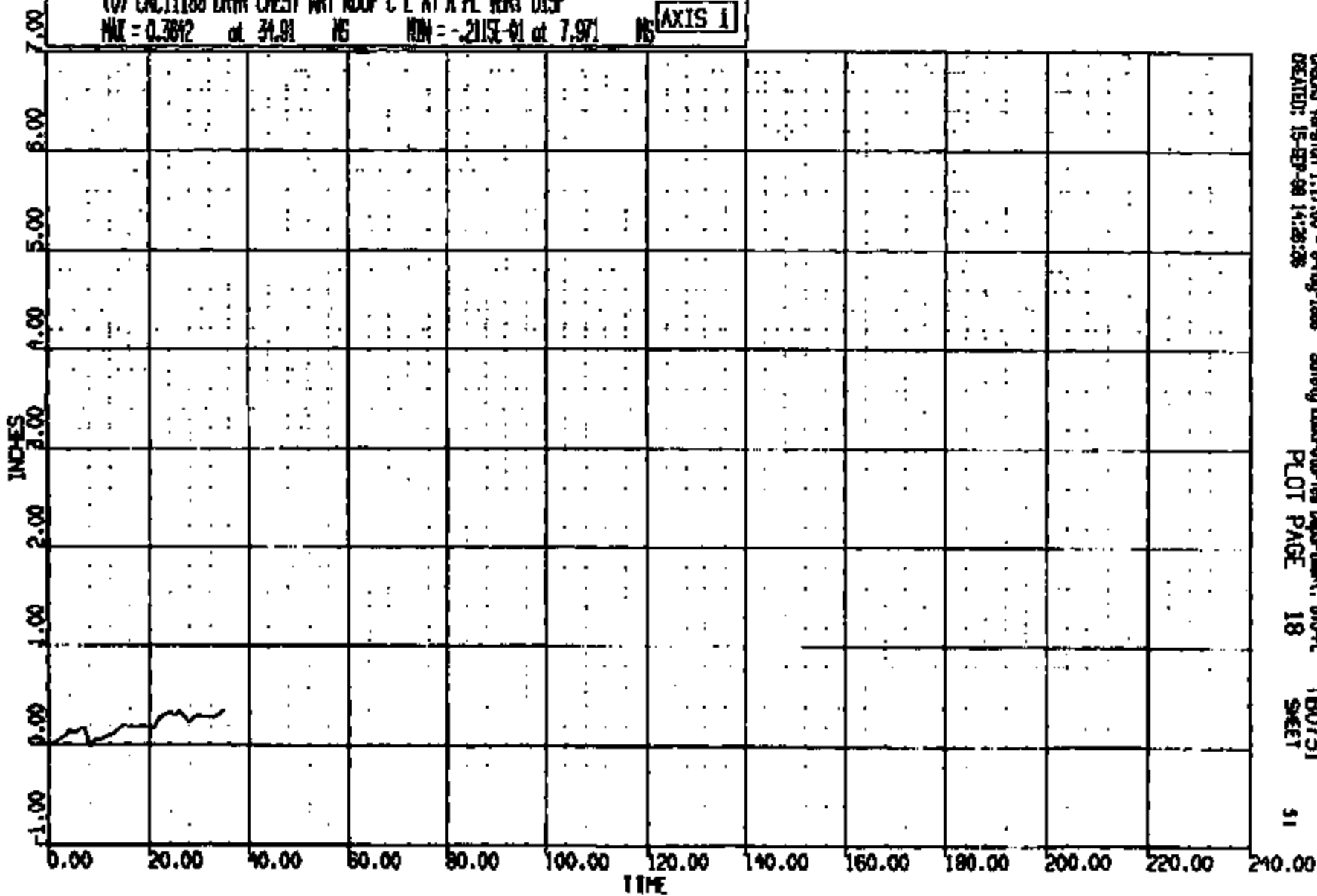
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:43
1999 TOWN CAR

(0) CR011188 DRIV CHST ART ROD C L AT A PL VERT DISP

MAX = 0.3642 at 34.91 MS MIN = -2115E-01 at 7.971 MS

AXIS 1



CR011188 Version 1.17.00 - 9-Aug-1999
CREATED: 15-SEP-98 14:26:26

Safety Laboratories Department, 610-A
PLOT PAGE 18

TB0731
SHEET

51

ENTIRE PAGE CONFIDENTIAL

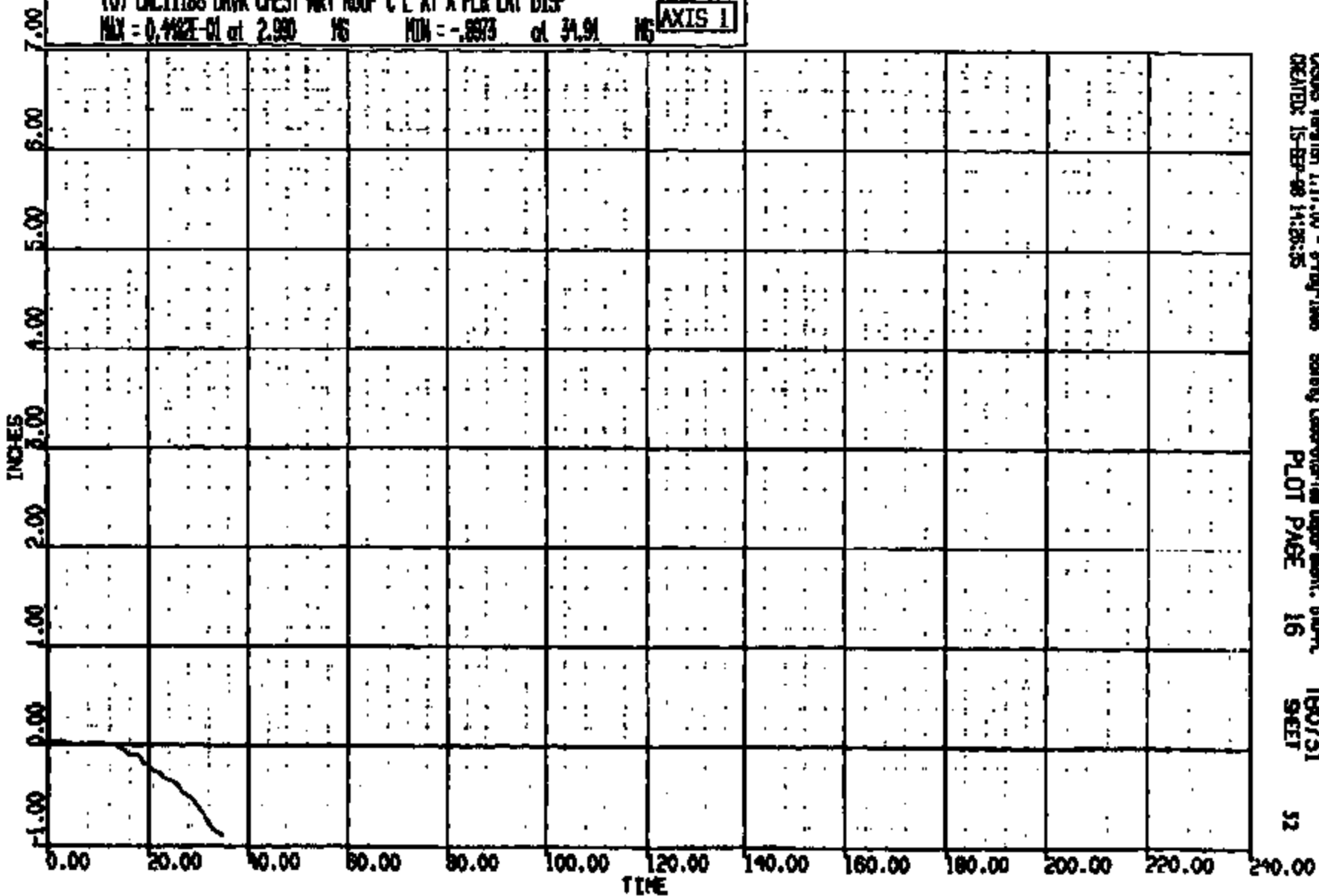
CR011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:43
1999 TOWN CAR

(6) CR11188 DRVR CHEST WRT ROOF C L AT A FLR LAT DISP

MAX = 0.442E-01 at 2.990 MS MIN = -.8973 at 34.91 MS

AXIS 1



CRS006 Version 1.17.00 - 8-May-1998
CREATED: 15-SEP-98 14:28:35

Safety Laboratories Department, 600-A
PLOT PAGE 16

TB0731
SHEET

52

ENTIRE PAGE CONFIDENTIAL

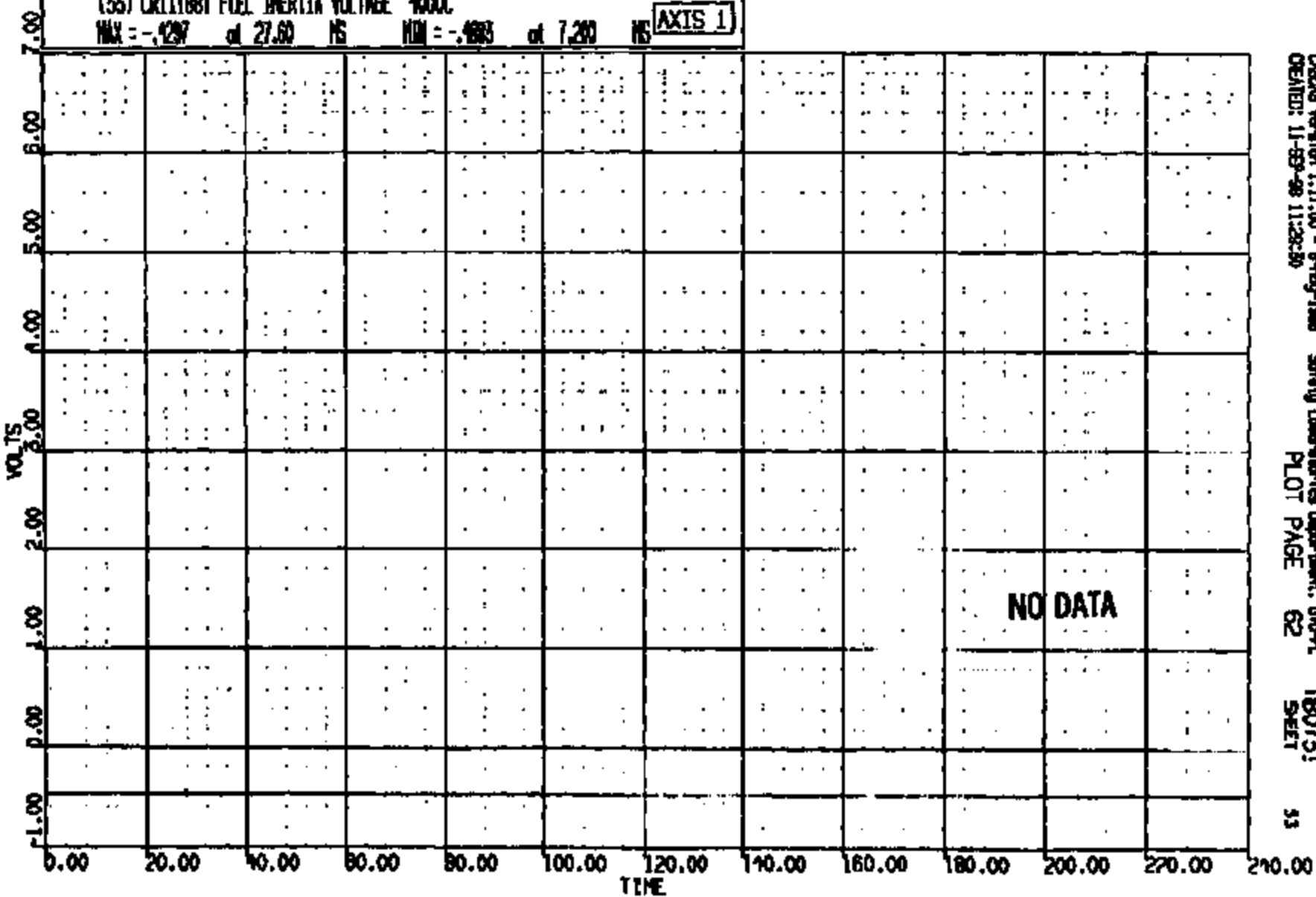
CRIS 0011188

CR R: 11188 TO: T80731 DATE: 990911 10:50:48
1999 TOWN CAR

(33) CR111881 FUEL INERTIA VOLTAGE 4000C

MAX = -.4297 at 27.60 MS MIN = -.4883 at 7.200 MS

AXIS 1



CADDS Version 1.17.00 - 8-May-1999
CREATED: 11-59-99 11:28:30

Safety Laboratories Department, 610-A
PLOT PAGE 62

T80731
SHEET

53

ENTIRE PAGE CONFIDENTIAL

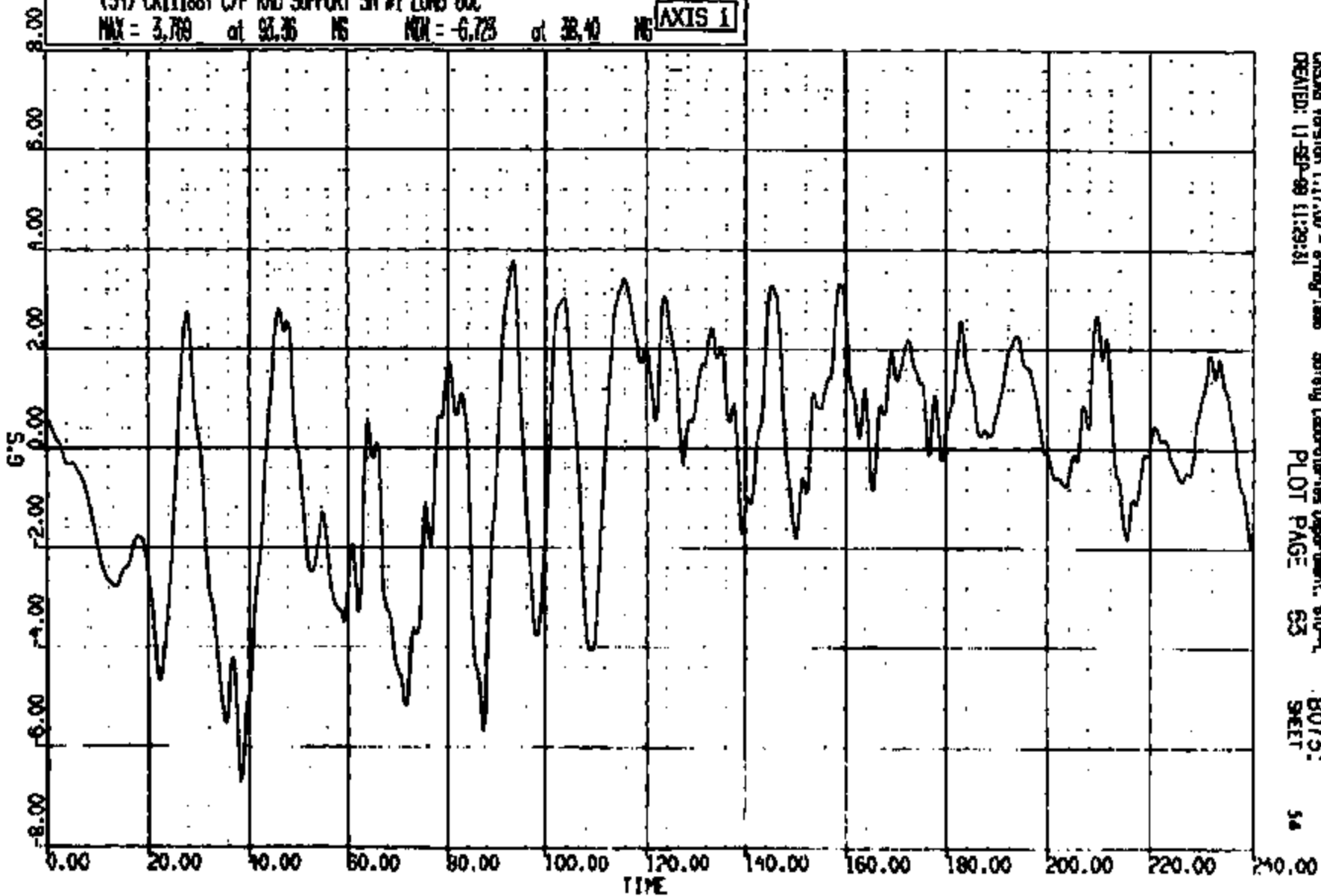
CR11188

CR R: 11188 TO: T80731 DATE: 980911 10:50:45
1998 TOWN CAR

(34) CR111887 C/F RAD SUPPORT SH #1 LONG 60C

MAX = 3.769 at 93.36 NG MIN = -6.723 at 38.40 NG

AXIS 1



CISMS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:29:51

Safety Laboratories Department, SID-4
PLOT PAGE 63

T80731
SHEET 56

ENTIRE PAGE CONFIDENTIAL

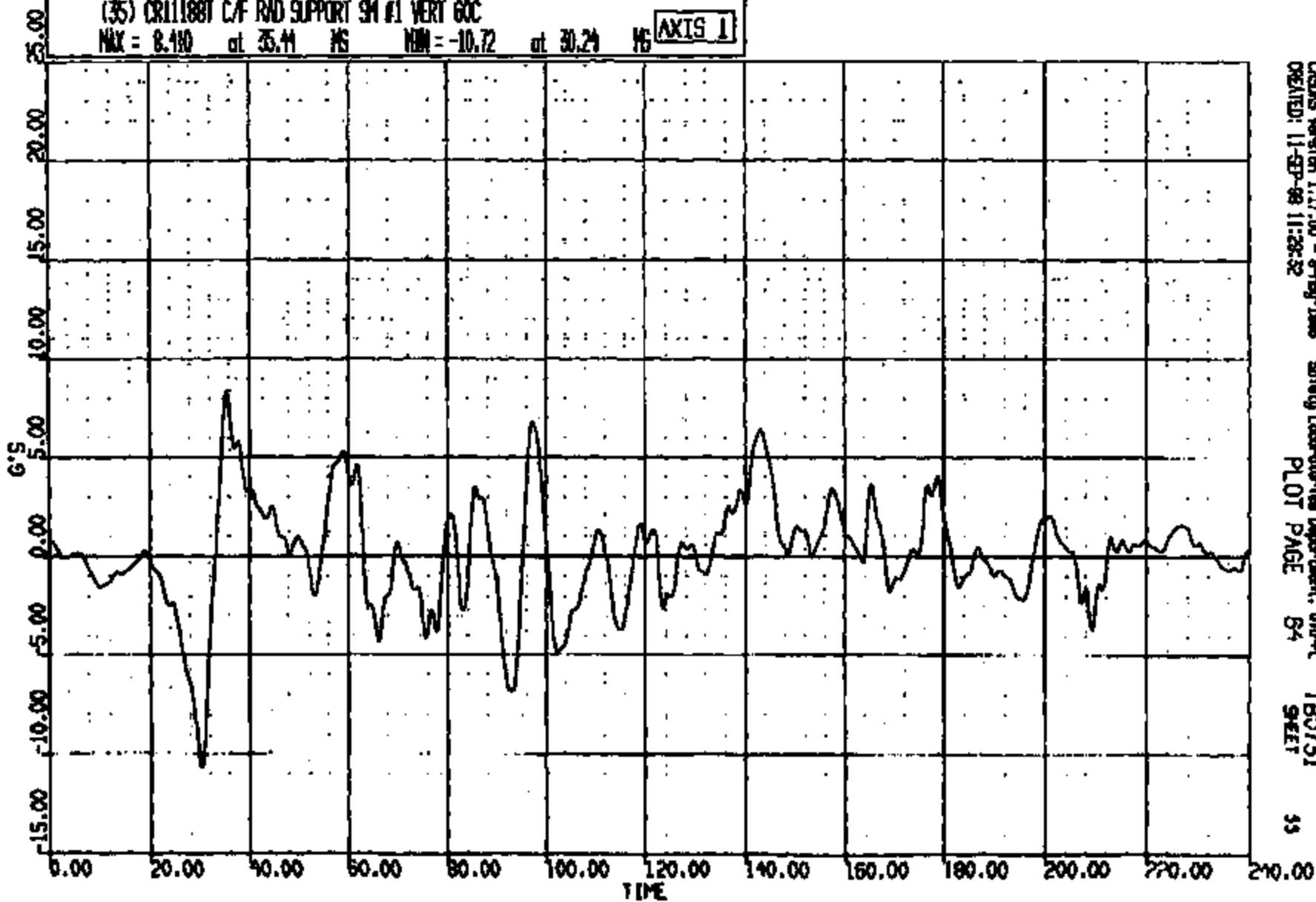
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:48
1999 TOWN CAR

(35) CR111887 C/F RAD SUPPORT SH #1 VERT 60C

MAX = 8.190 at 35.44 MS MIN = -10.72 at 30.24 MS

AXIS 1



CASAS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:28:32

Safety Laboratories Department, 6th Fl
PLOT PAGE 64

TB0731
SHEET

33

ENTIRE PAGE CONFIDENTIAL

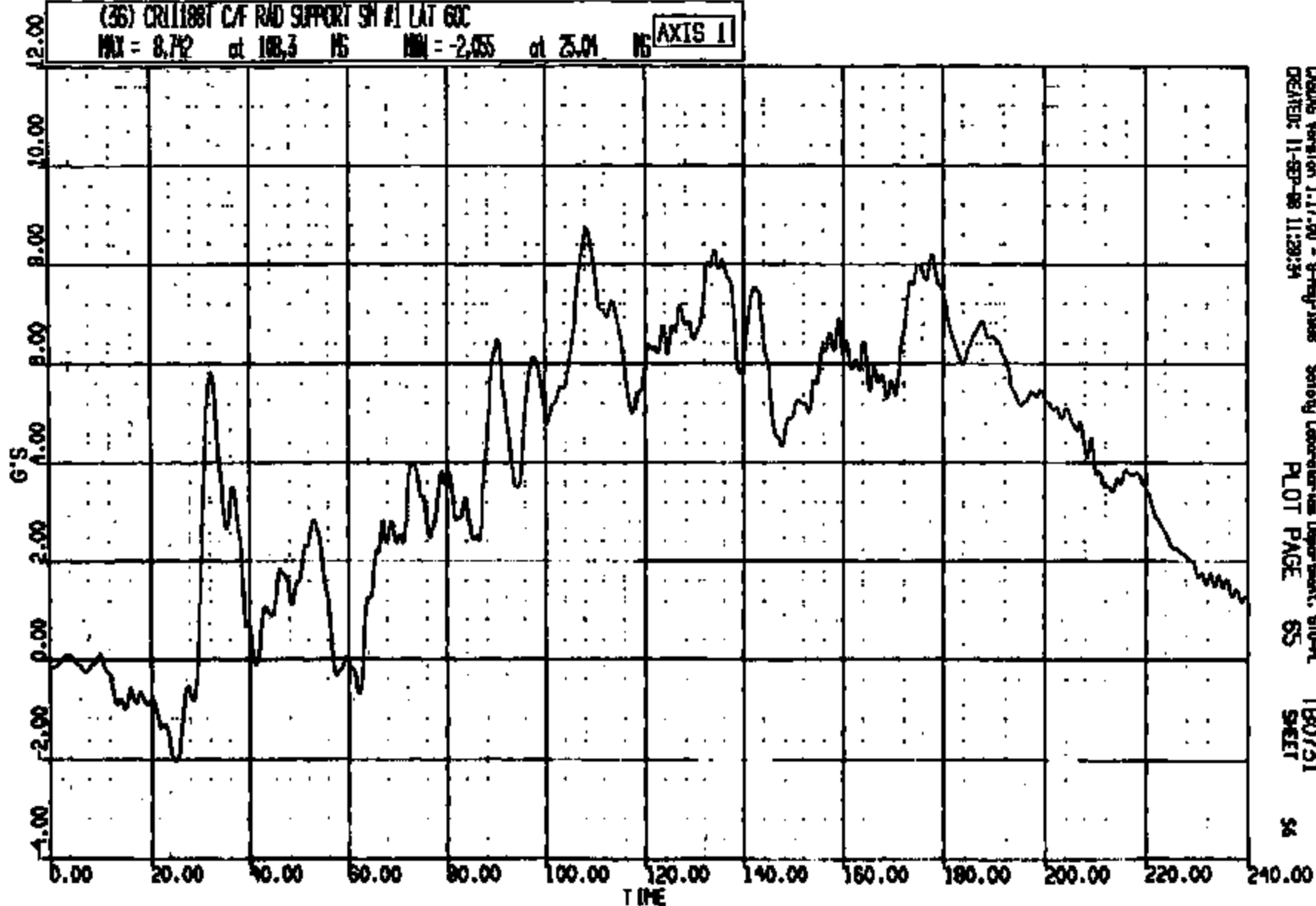
CR11188

CR #: 11188 TO: TB0731 DATE: 880911 10:50:43
1988 TOWN CAR

(35) CR11188T C/F RAD SUPPORT SN #1 LAT 60C

MAX = 8.742 at 108.3 MS MIN = -2.055 at 25.01 MS

AXIS 1



CADNAS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:29:34

Seaford Laboratories Department, 610-A
PLOT PAGE 65

TB0731
SHEET 54

ENTIRE PAGE CONFIDENTIAL

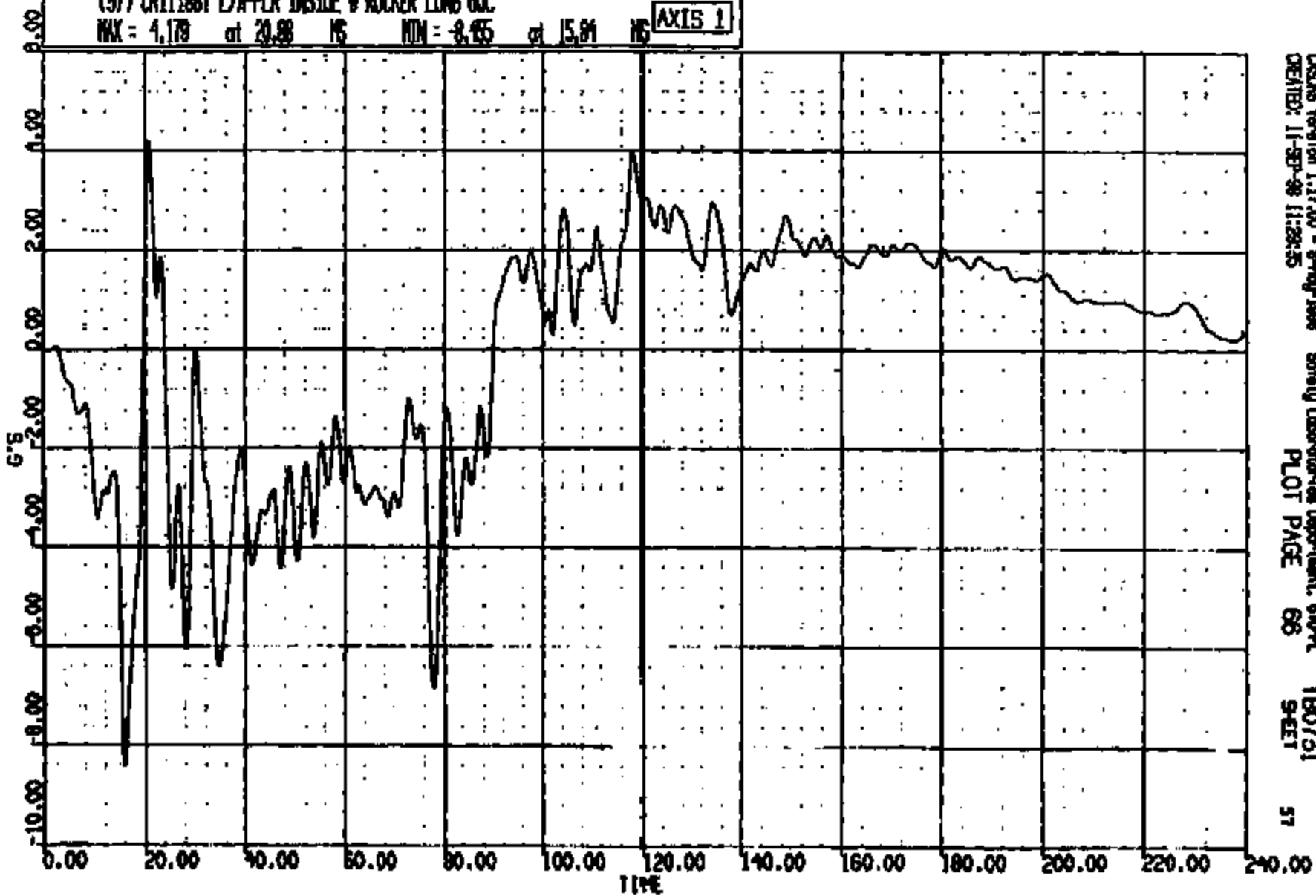
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:45
1999 TOWN CAR

(37) CR11188T L/A-PLR INSIDE @ ROCKER LONG GAC

MAX = 4.178 at 20.88 MS MIN = -8.935 at 15.84 MS

AXIS 1



CASMS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:28:35

Safety Laboratories Department, 610-PL
PLOT PAGE 66

TB0731
SHEET 57

ENTIRE PAGE CONFIDENTIAL

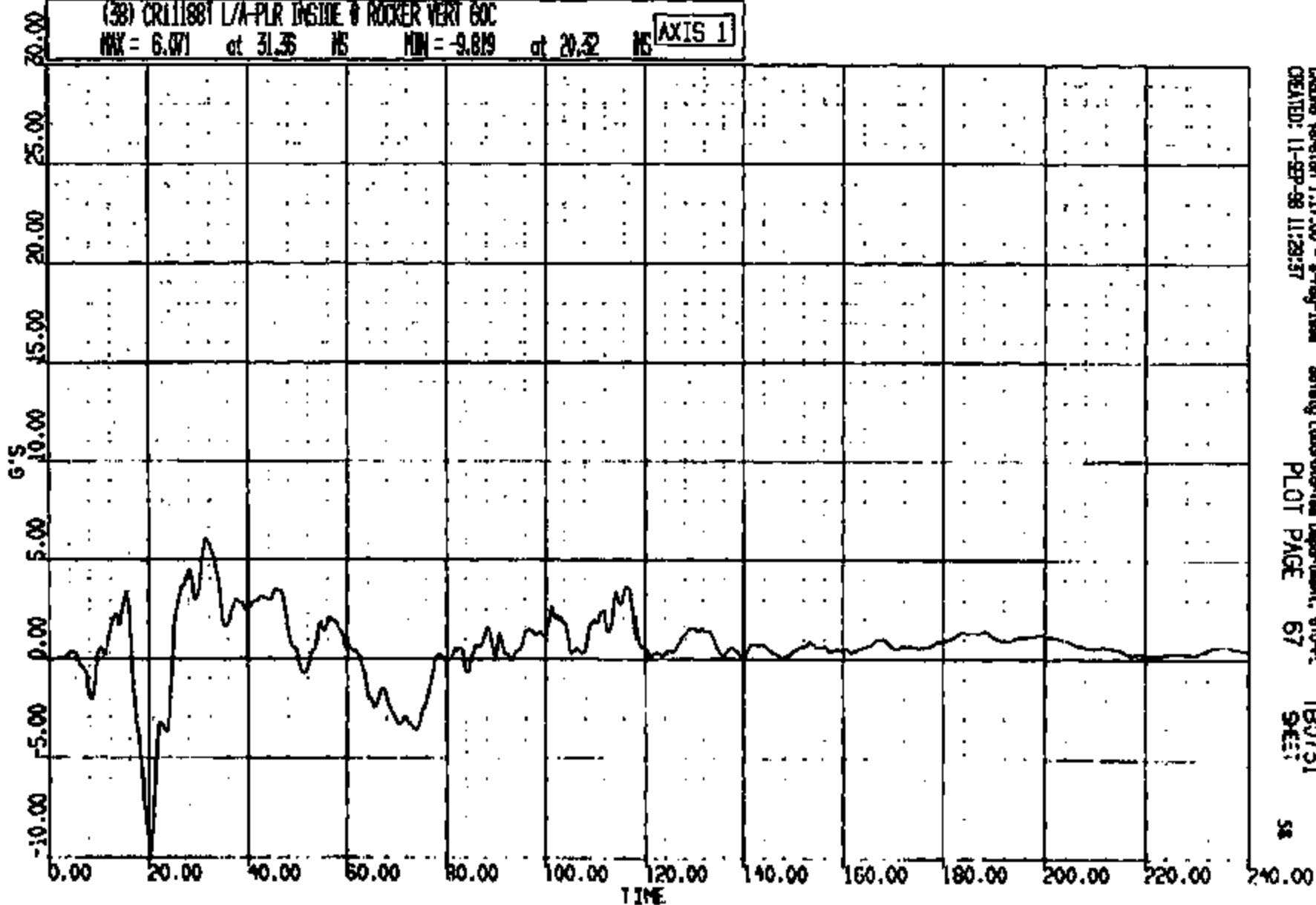
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:45
1999 TOWN CAR

(38) CR111881 L/A-PLR INSIDE & ROCKER VERT GOC

MAX = 6.071 at 31.35 MS MIN = -9.819 at 20.32 MS

AXIS 1



CASUS Version 1.17.00 - 8-Aug-1998
CREATED: 11-SEP-98 11:29:37

Safety Laboratory Department, 613-A
PLOT PAGE 67

TB0731
9/23/98

SE

ENTIRE PAGE CONFIDENTIAL

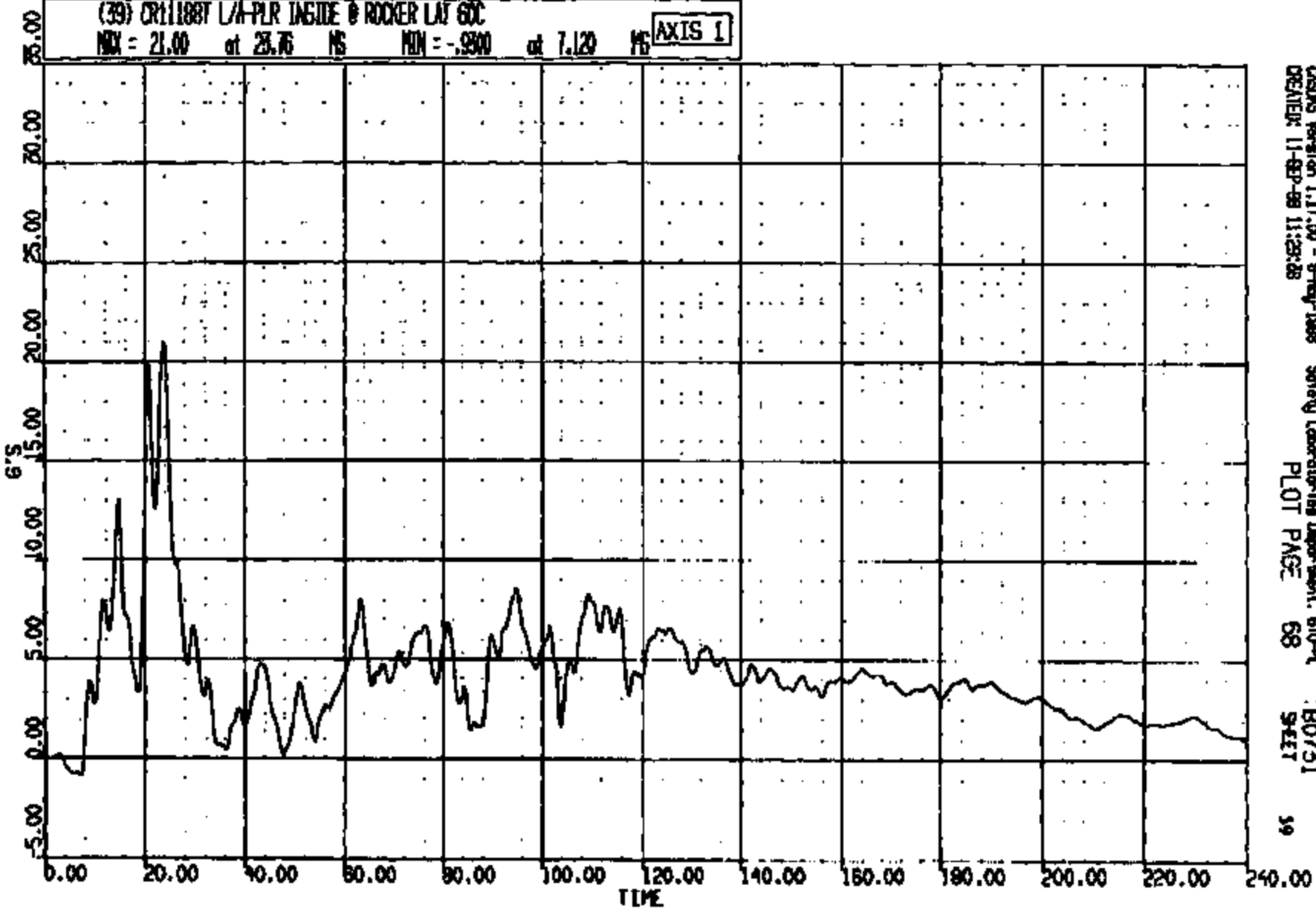
CRIS 0011188

CR #: 11188 TO: TB0731 DATE: 880911 10:30:43
1988 TOWN CAR

(39) CR11188T L/A-PLR INSIDE @ ROCKER LAT 60C

MAX = 21.00 at 23.75 MS MIN = -.9300 at 7.120 MS

AXIS 1



CASMS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:23:28

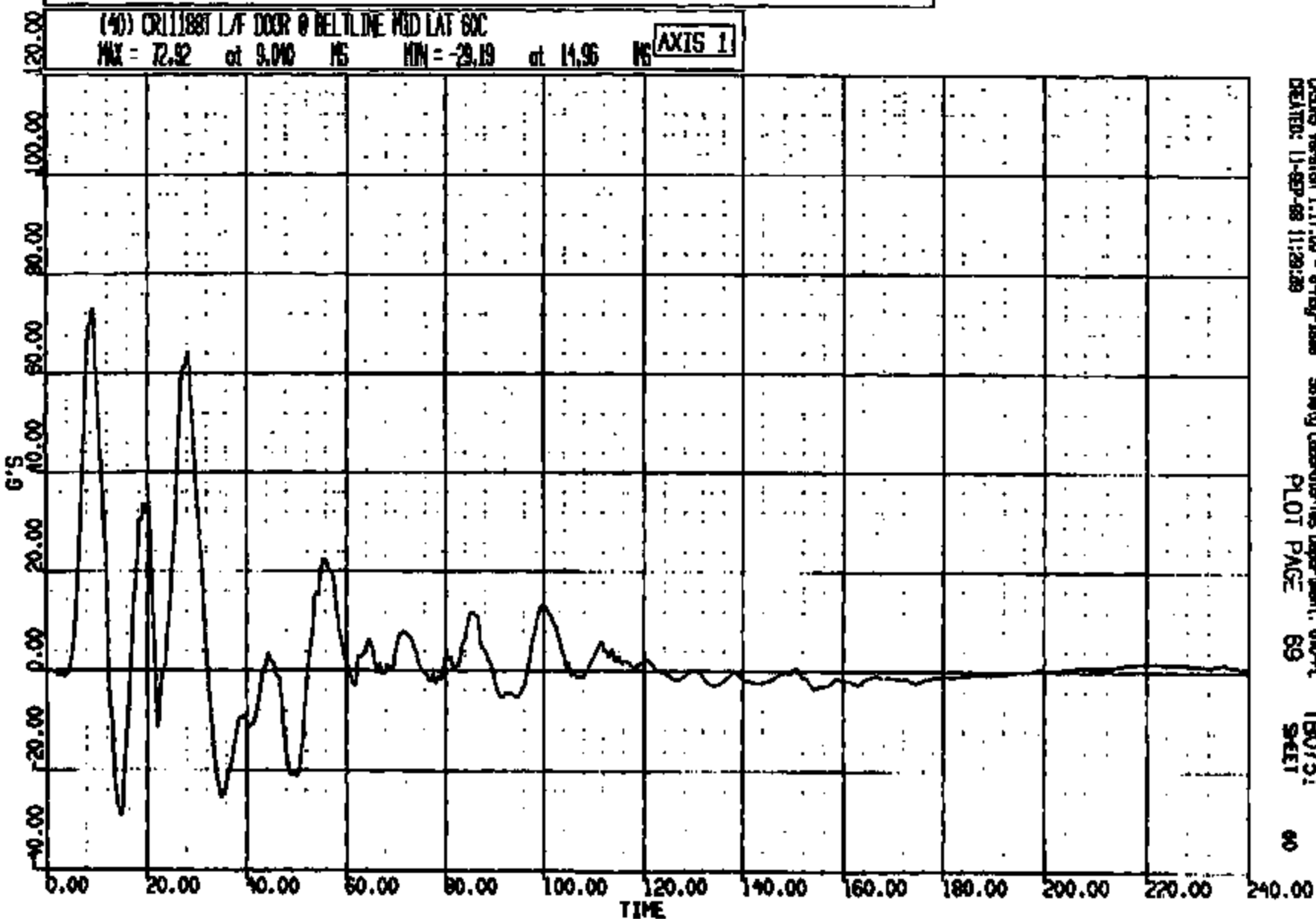
Safety Laboratory Department, 610-94
PLOT PAGE 68

TB0731
SHEET 39

ENTIRE PAGE CONFIDENTIAL

CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:45
1999 TOWN CAR



CASHS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:29:29

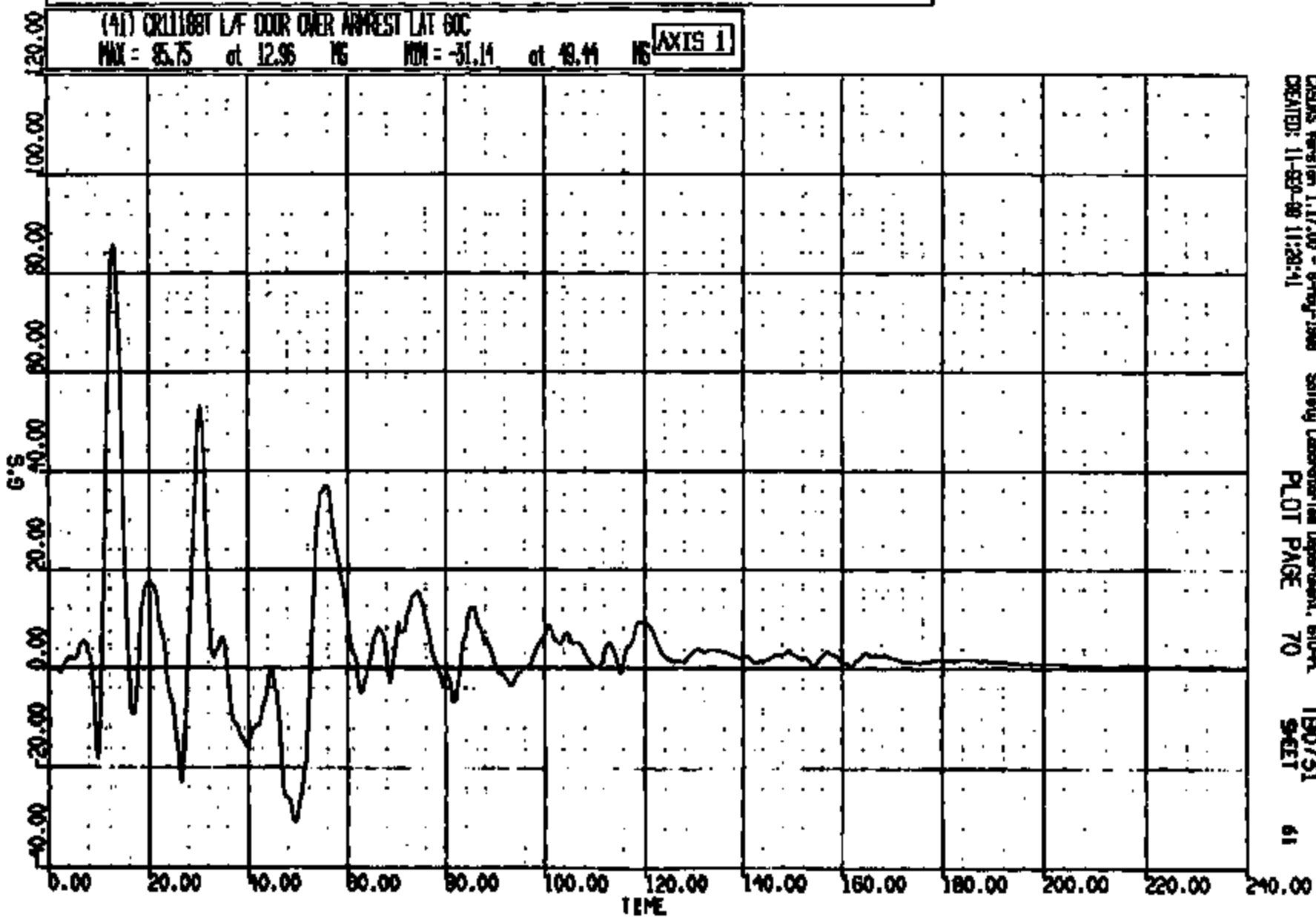
Safety Laboratories Department, 600-A
PLOT PAGE 69

TB0731
SHEET 60

ENTIRE PAGE CONFIDENTIAL

CRIS 001188

CR R: 11188 TO: TB0731 DATE: 880911 10:30:48
1988 TOWN CAR



CHS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:20:41

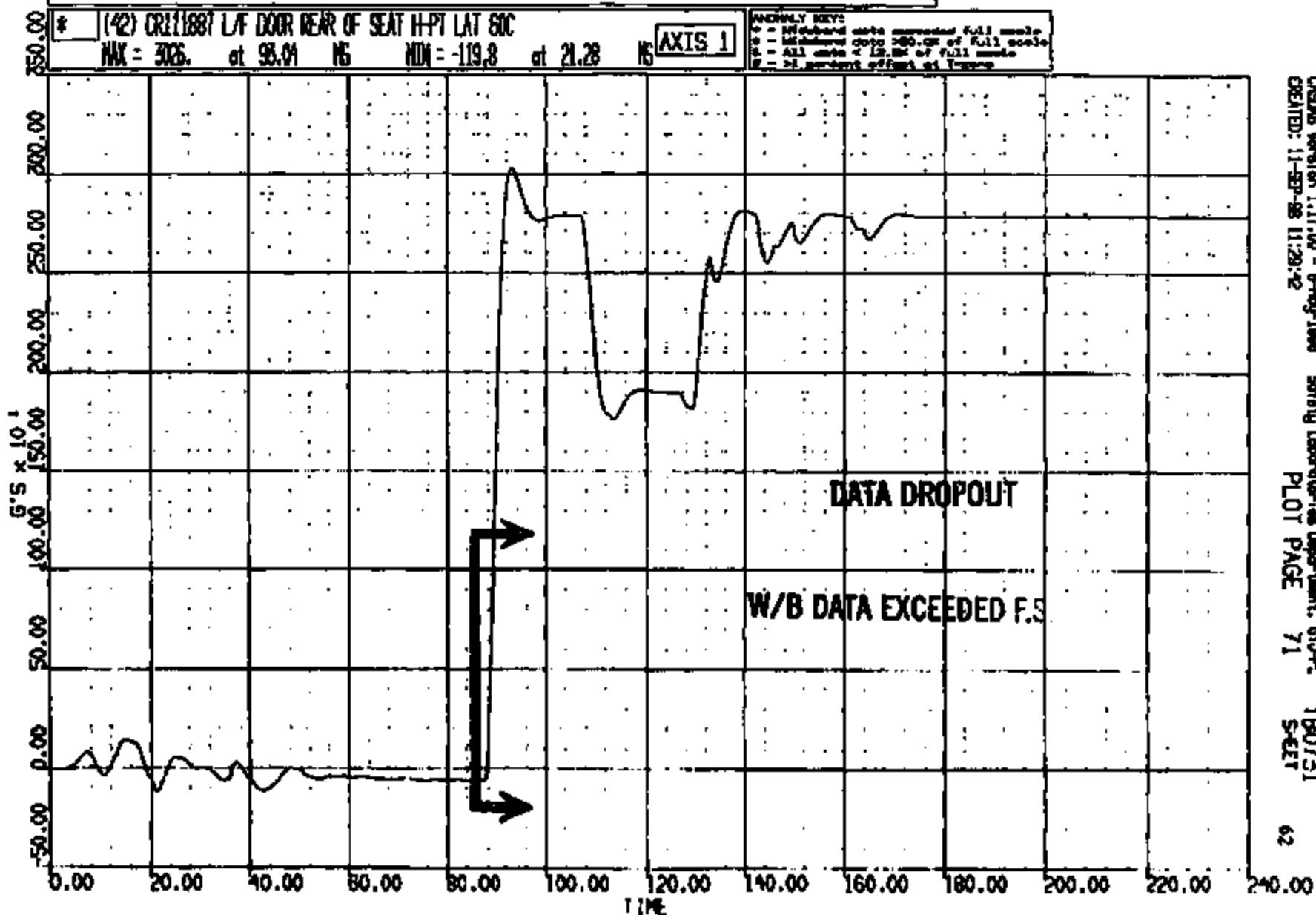
Safety Laboratory Department, GPOA
PLOT PAGE 70

TB0731
SHEET 61

ENTIRE PAGE CONFIDENTIAL

CR11188

CR R: 11188 TO: T80731 DATE: 980911 10:30:45
1998 TOWN CAR



CRIS 0011188

CASDS Version 1.17.05 - 8-May-1998
CREATED: 11-SEP-98 11:28:42

Safety Laboratories Department, 610-P
PLOT PAGE 71 T80731

5-LET 62

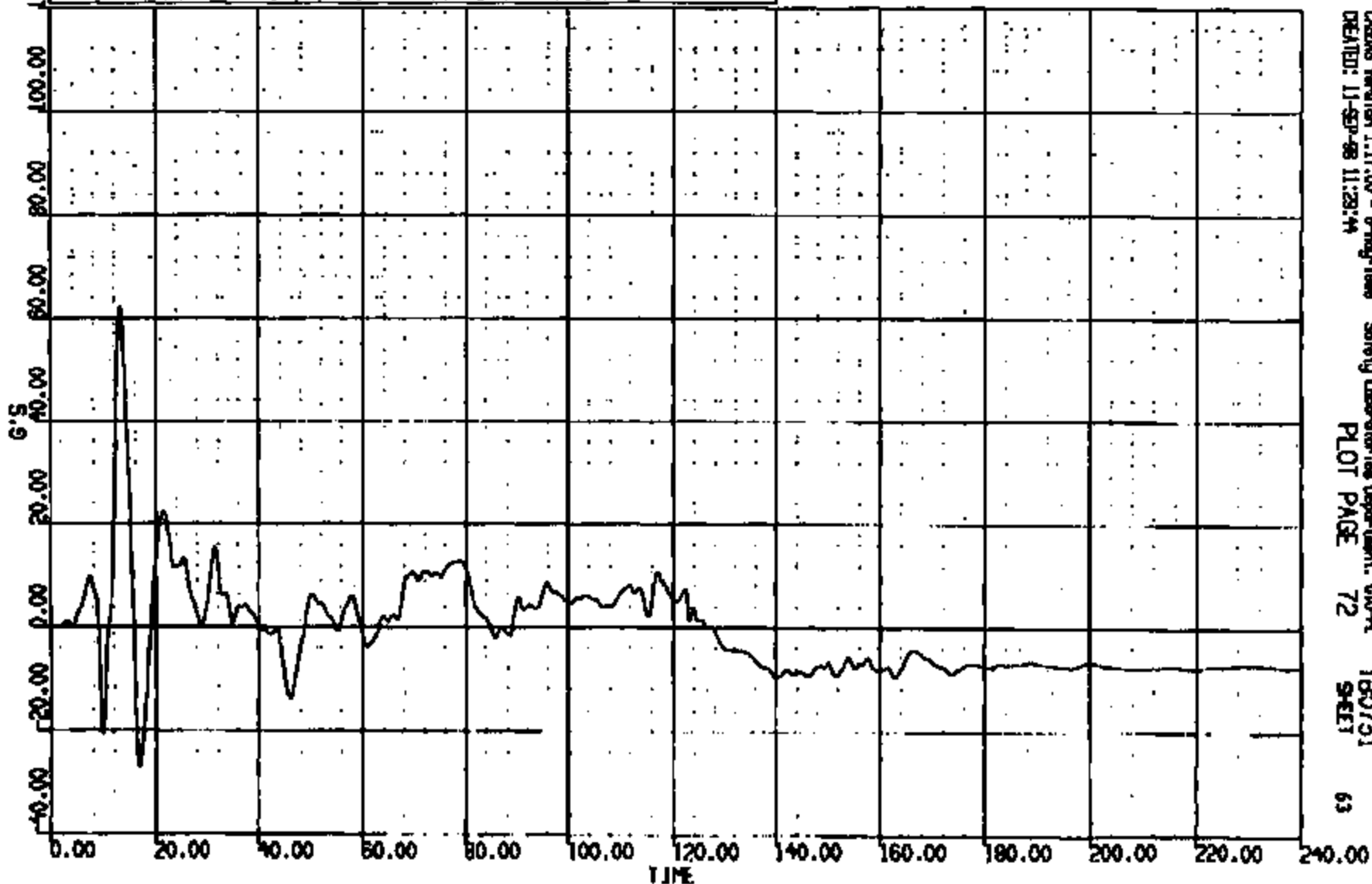
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: T80731 DATE: 880911 10:50:48
1988 TOWN CAR

(43) CR11188T LAF DOOR SPEAKER HOLE LAT 60C

MAX = 62.36 at 13.20 MS MIN = -27.18 at 17.04 MS

AXIS 1



CAREAS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:28:44

Safety Laboratories Department, GPO-P
PLOT PAGE 72

T80731
SHEET 63

ENTIRE PAGE CONFIDENTIAL

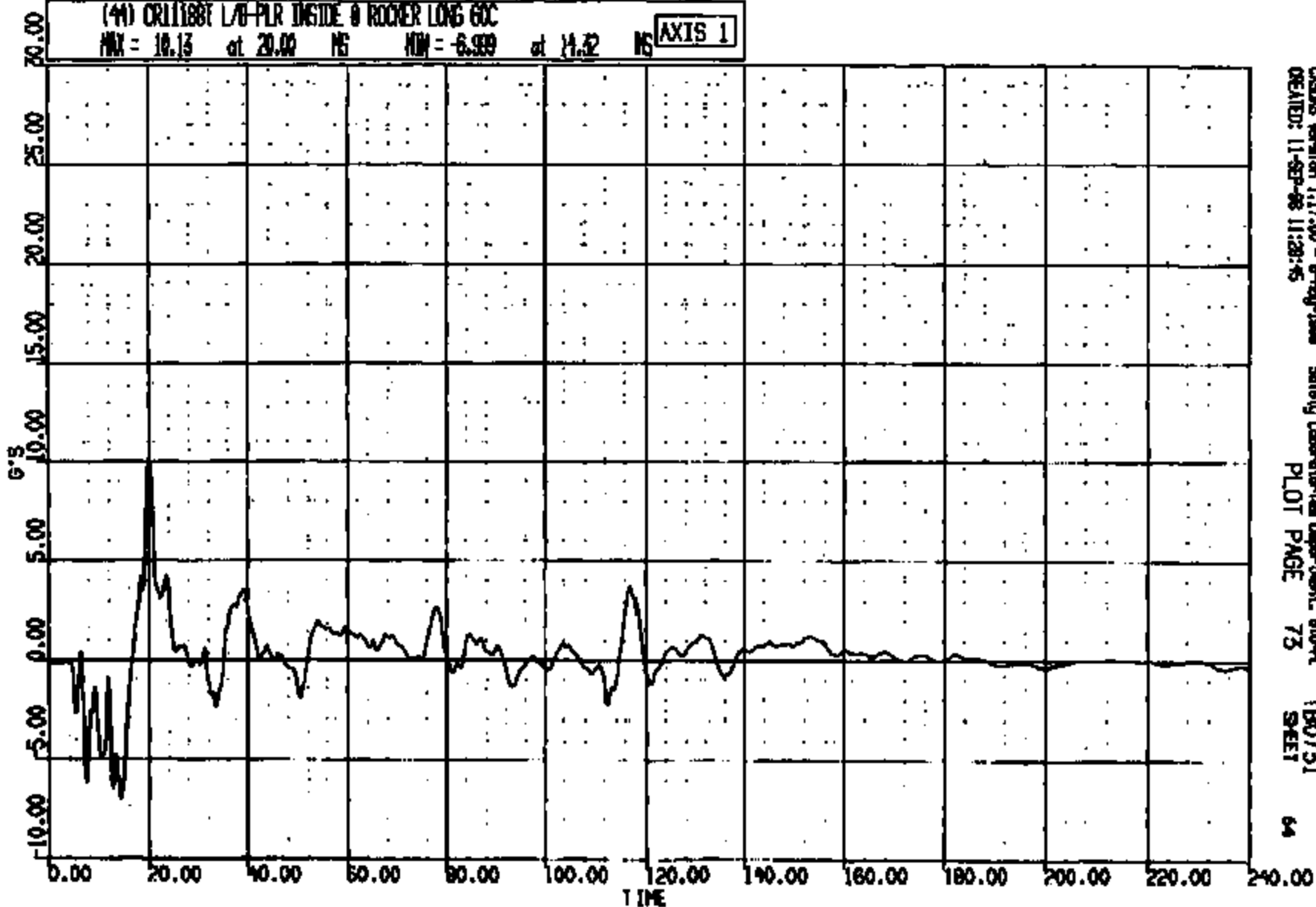
CRIS0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(44) CR11188 L/R PLR INSIDE @ ROCKER LONG GOC

MAX = 10.13 at 20.00 MS MIN = -6.909 at 14.32 MS

AXIS 1



CASYS Version 1.17.00 - 8-Aug-1999
CREATED: 11-SEP-99 11:28:45

Safety Laboratories Department, 610-PL
PLOT PAGE 73

TB0731
SHEET 64

ENTIRE PAGE CONFIDENTIAL

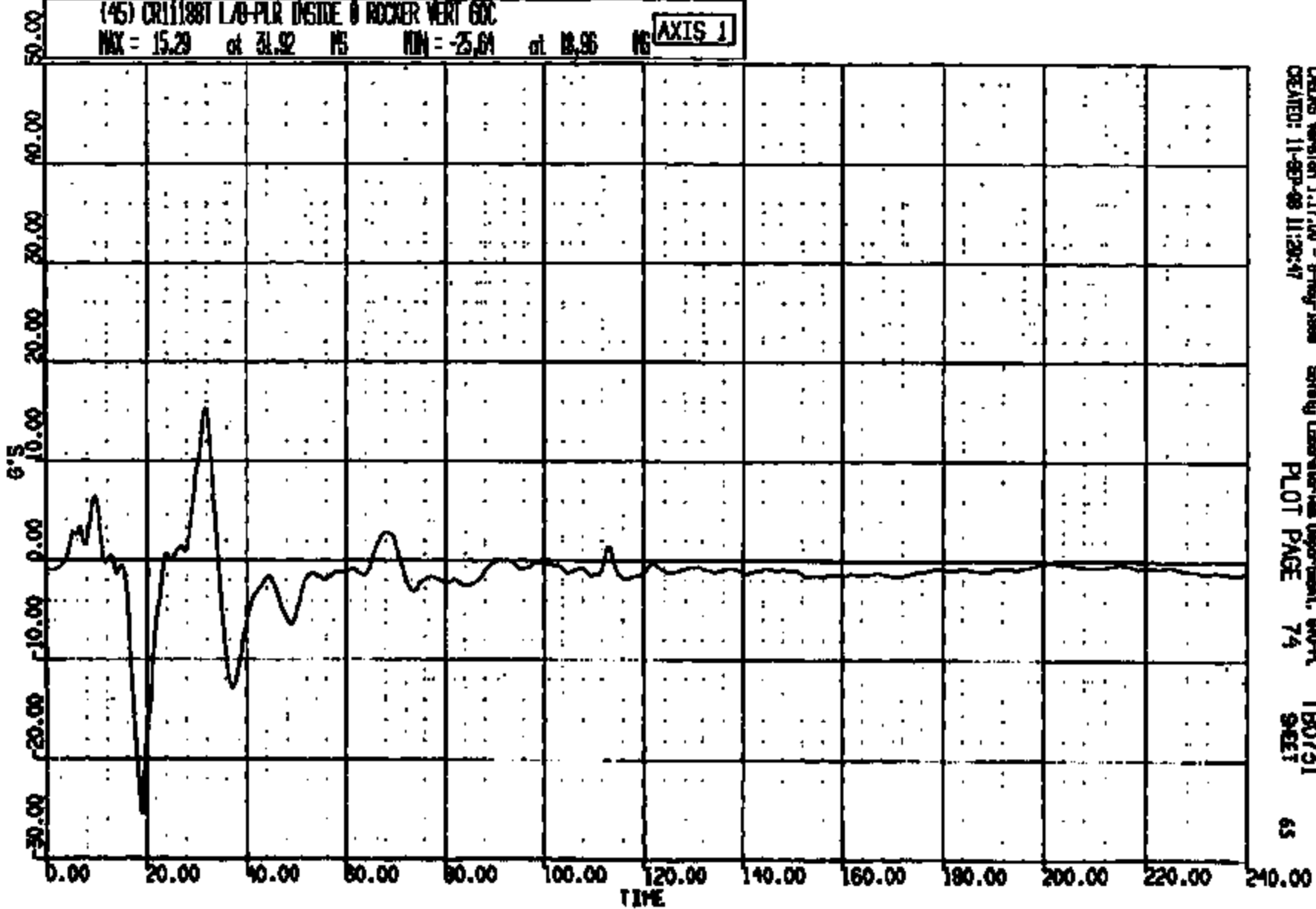
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(45) CR11188T L/A-PLR INSIDE @ ROCKER VERT GDC

MAX = 15.29 at 31.92 MS MIN = -25.64 at 18.96 MS

AXIS 1



CASAS Version 1.17.00 - 9-May-1998
CREATED: 11-SEP-98 11:20:47

Safety Laboratories Department, 600-P
PLOT PAGE 74

TB0731
SHEET

65

ENTIRE PAGE CONFIDENTIAL

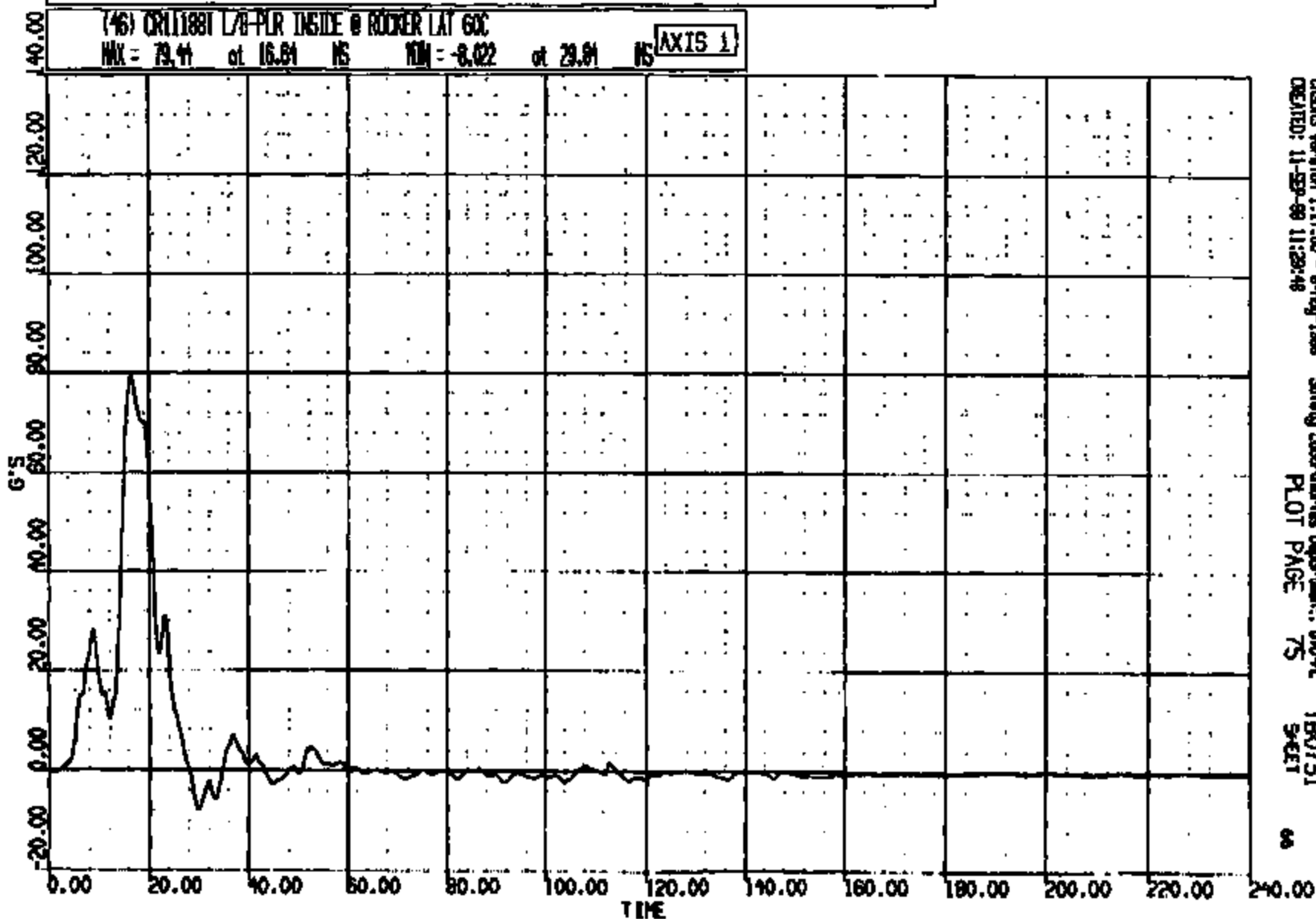
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:48
1999 TOWN CAR

(46) CR11188T L/R-PLR INSIDE @ ROCKER LAT 60C

MAX = 79.44 at 16.84 NS MIN = -8.022 at 29.84 NS

AXIS 1



CRAMS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-99 11:28:48

Safety Laboratories Department: 610-PL
PLOT PAGE 75

TB0731
Sheet

66

ENTIRE PAGE CONFIDENTIAL

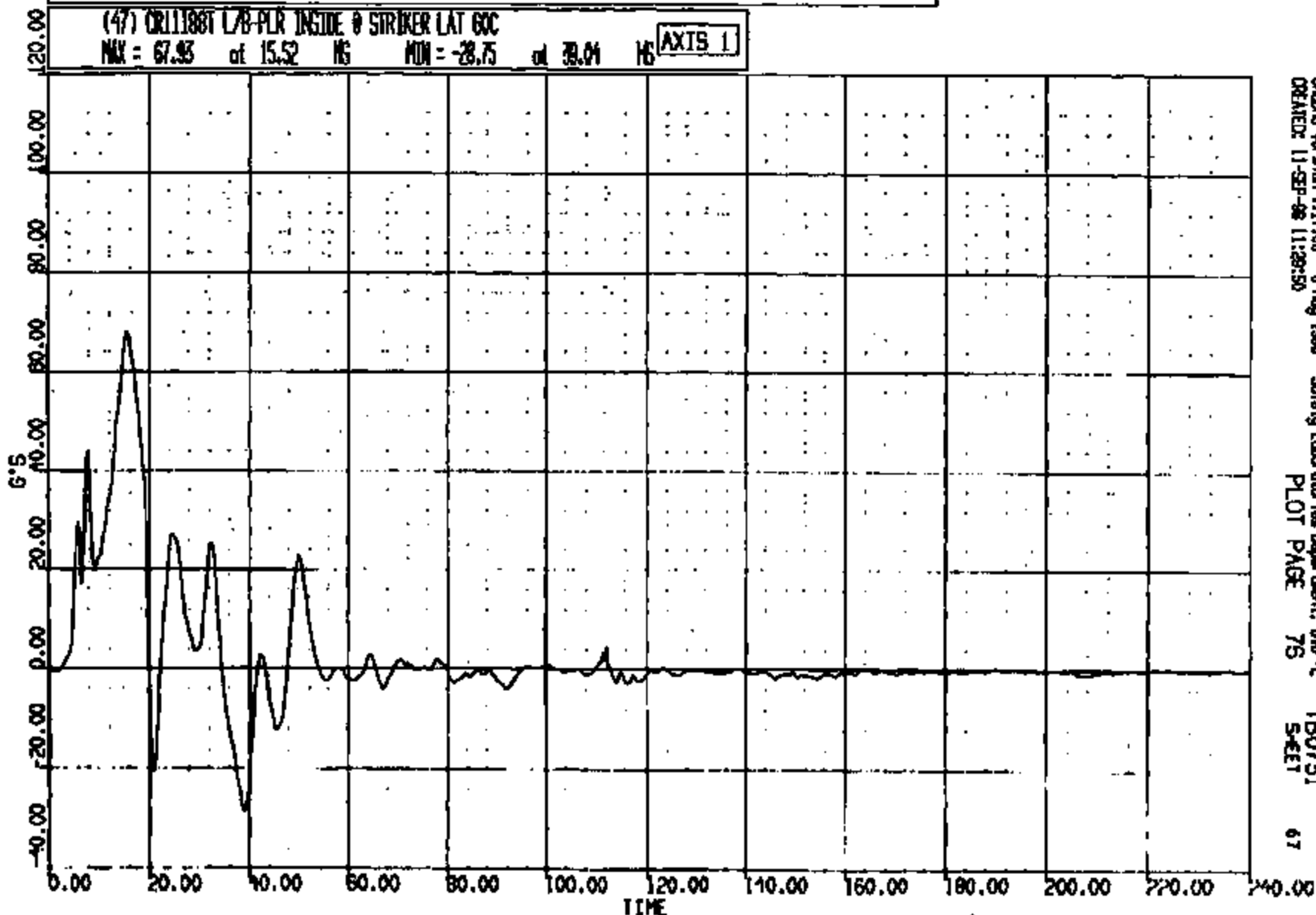
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 980811 10:50:43
1988 TOWN CAR

(47) CR11188T L/R-PLR INSIDE @ STRIKER LAT 60C

MAX = 67.93 at 15.52 HG MIN = -28.75 at 38.04 HG

AXIS 1



CASUS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:28:50

Safety Laboratories Department, 610-A
PLOT PAGE 75

TB0731
5-SET 67

ENTIRE PAGE CONFIDENTIAL

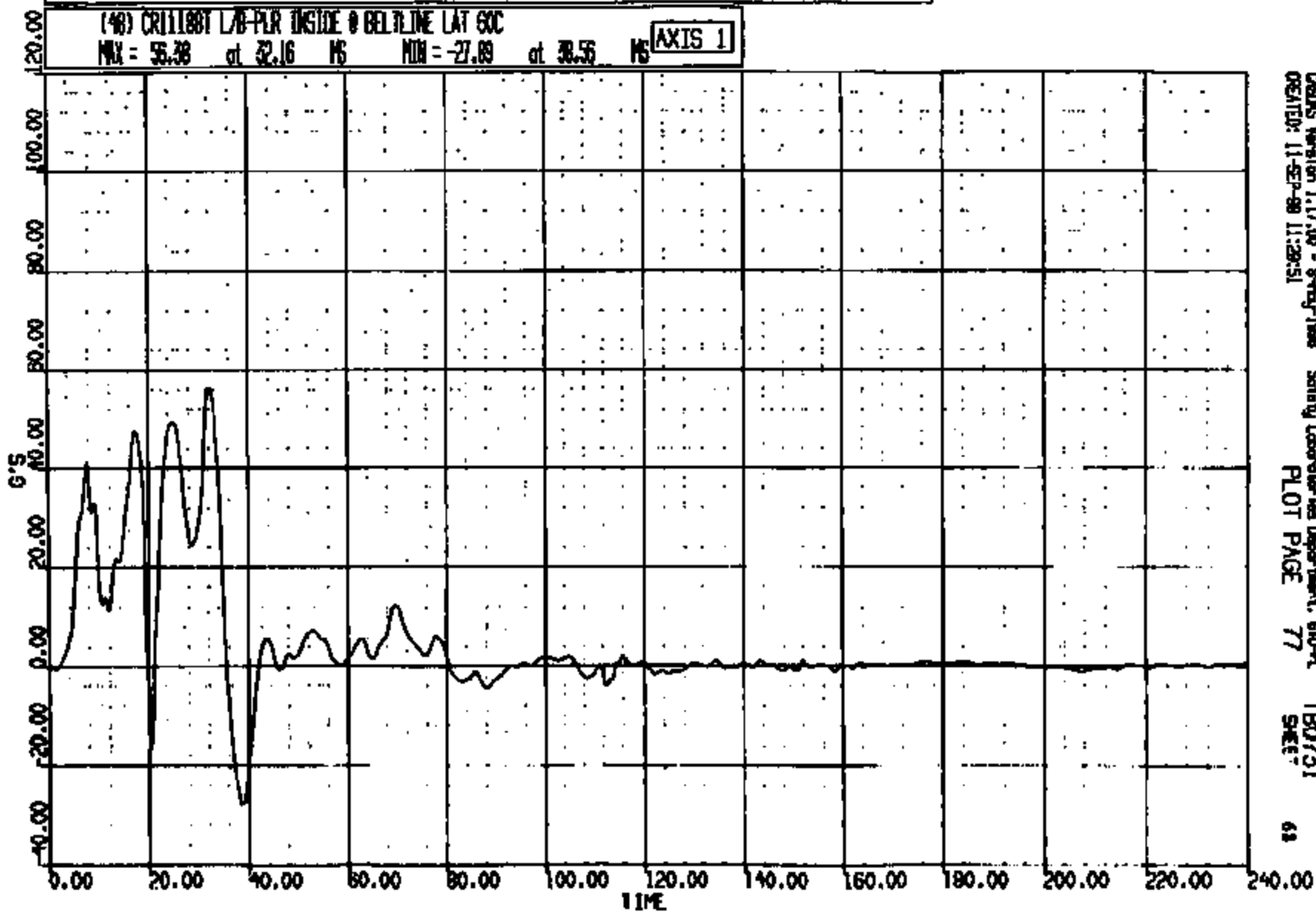
CR11188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:45
1999 TOWN CAR

(48) CR11188T LAD-PLR INSIDE @ BELTLINE LAT 60C

MAX = 55.38 at 32.16 MS MIN = -27.89 at 38.56 MS

AXIS 1



CRAMS Version 1.17.00 - 9-May-1998
CREATED: 11-SEP-98 11:28:51

Safety Laboratories Department, 610-A
PLOT PAGE 77

TB0731
SHEET

61

ENTIRE PAGE CONFIDENTIAL

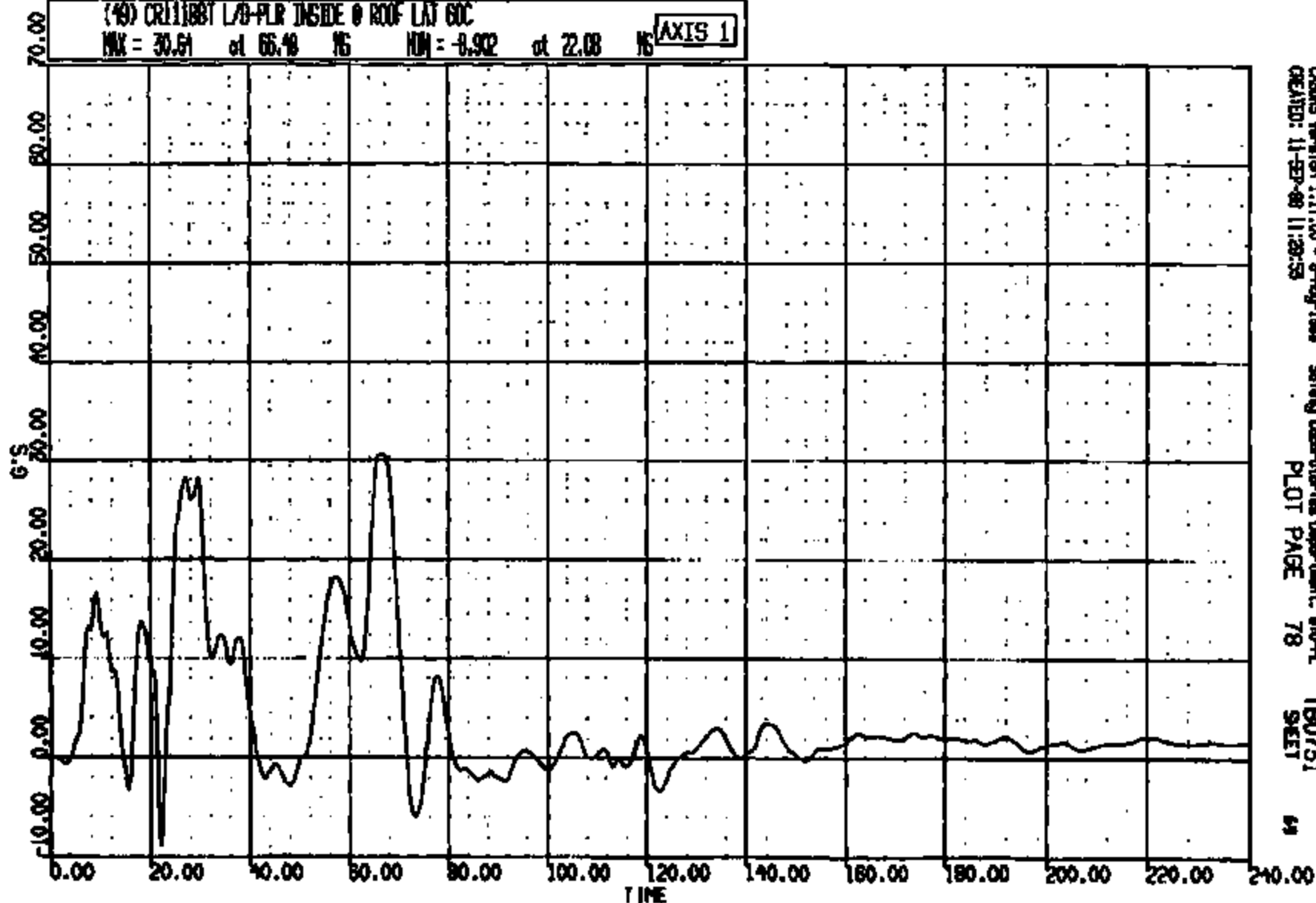
CR11188

CR R: 11188 TO: T80731 DATE: 990911 10:30:48
1999 TOWN CAR

(49) CR11188T L/O-PLR INSIDE @ ROOF LAT 60C

MAX = 30.61 at 66.48 MS MIN = -8.902 at 22.08 MS

AXIS 1



CRSIS Version 1.17.00 - 9-May-1999
CREATED: 11-SEP-99 11:28:53

Safety Laboratories Department, 610-PL
PLOT PAGE 78

T80731
SET 44

ENTIRE PAGE CONFIDENTIAL

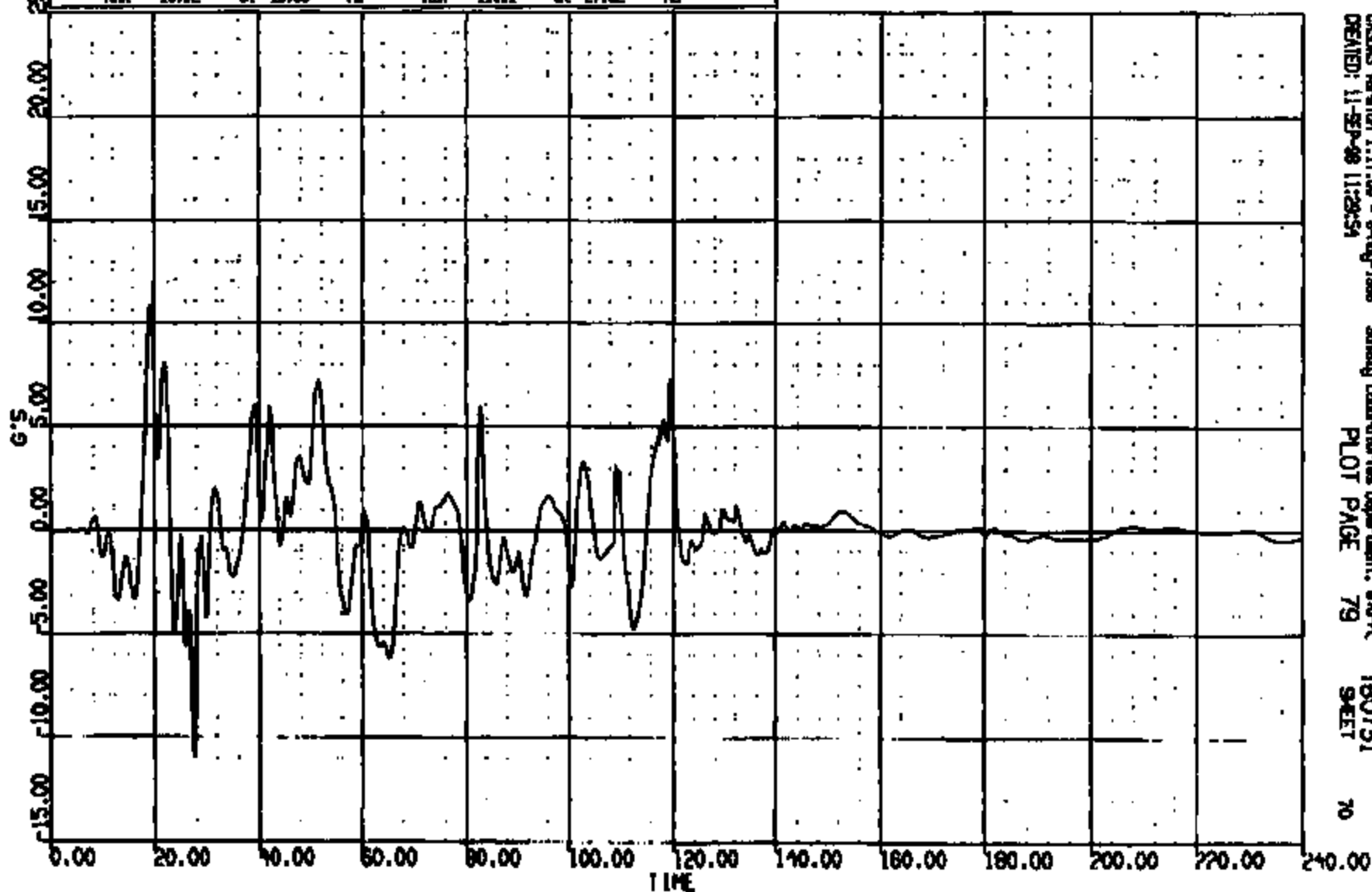
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(50) CR11188T L/F FLOOR PAN @ #24VER CTR #2 LONG 60C

MAX = 10.82 at 19.36 MS MIN = -11.01 at 27.52 MS

AXIS 1



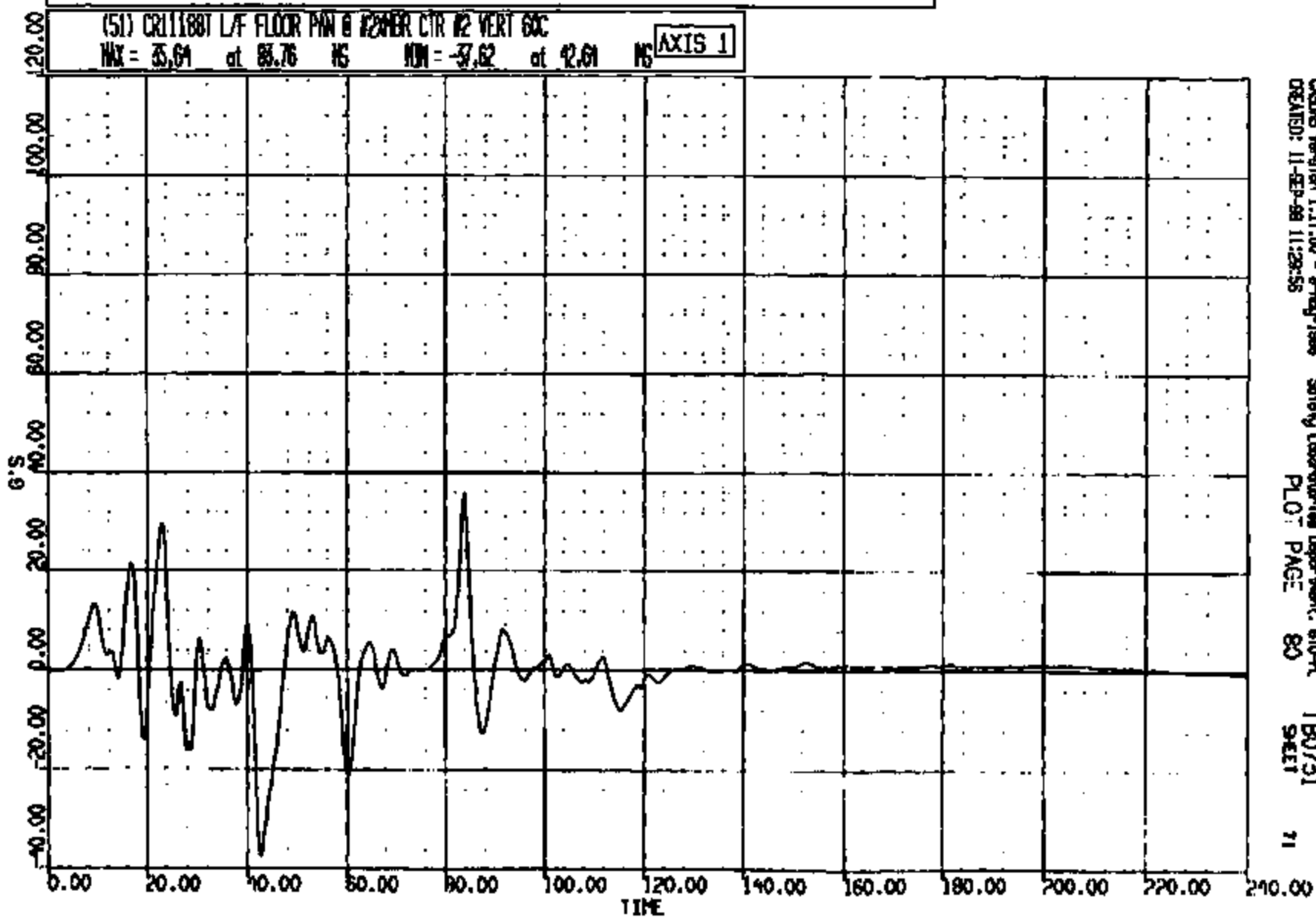
CRIS 0011188

CHS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:29:54

Safety Laboratories Department, STD-R
PLOT PAGE 79 SHEET 70

ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: TB0731 DATE: 990811 10:50:43
1999 TOWN CAR



CASUS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:28:55

Safety Laboratory Department, 610-A
PLOT PAGE 80

TB0731
SET 71

ENTIRE PAGE CONFIDENTIAL

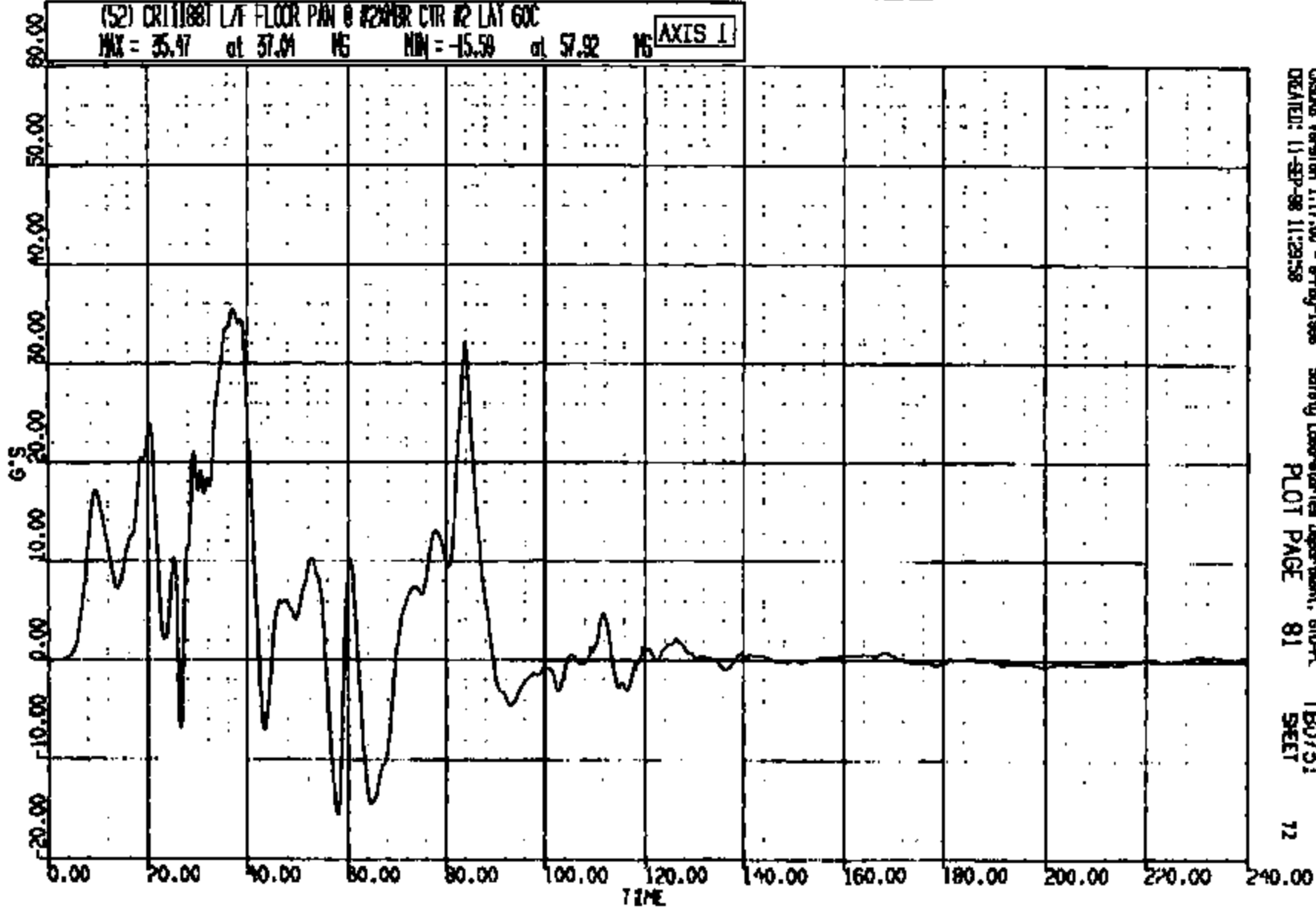
CRTS 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:48
1999 TOWN CAR

(52) CR11188T L/F FLOOR PAN @ #2XMR CTR #2 LAY 60C

MAX = 35.97 at 37.04 MS MIN = -15.59 at 57.92 MS

AXIS 1



CASAB Version 1.17.00 - 8-May-1998
DATE: 11-SEP-98 11:23:58

Safety Laboratories Department, LTD. PL. 81

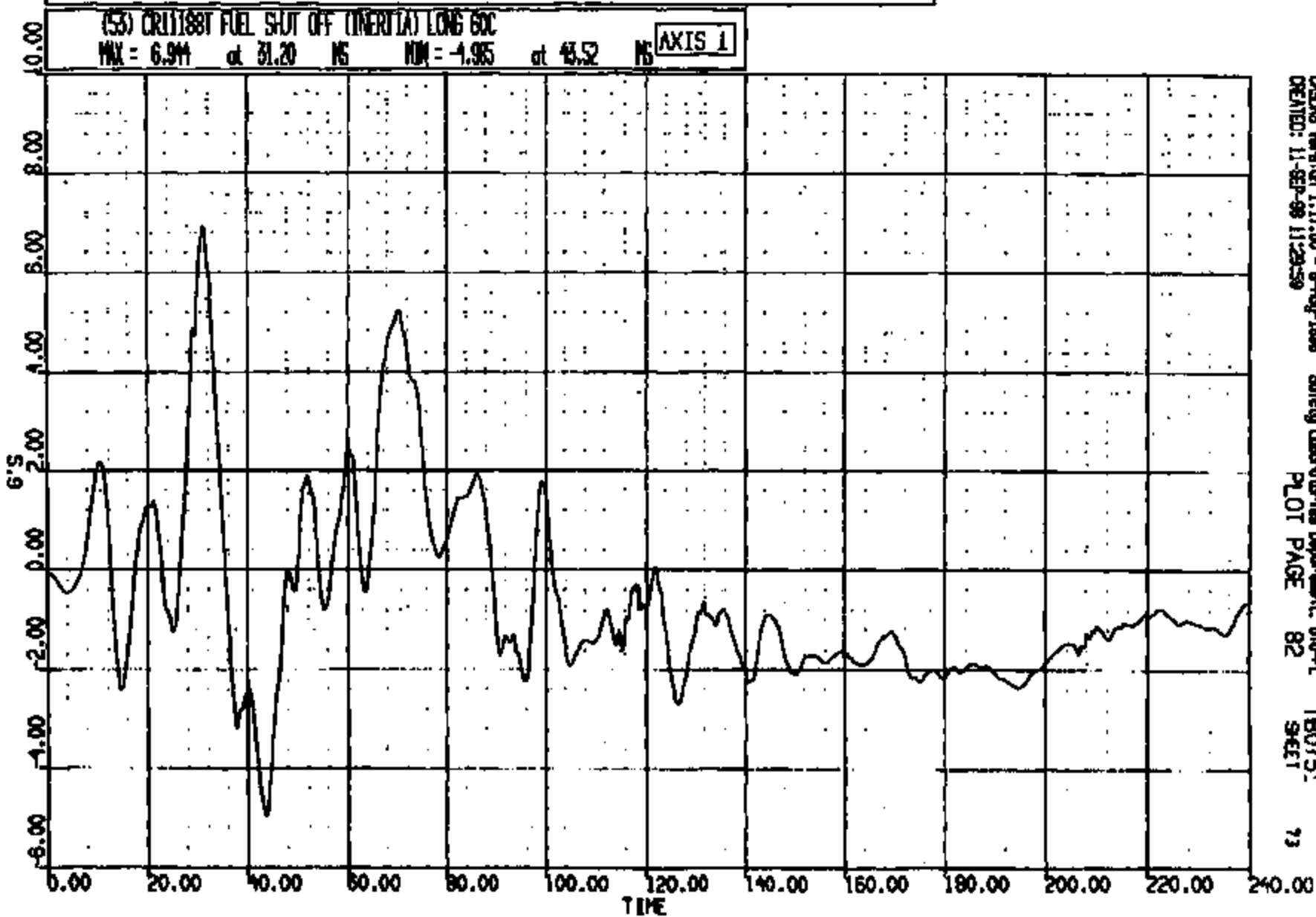
TB0731
SHEET

72

ENTIRE PAGE CONFIDENTIAL

CRIS 0011188

CR R: 11188 TO: TB0781 DATE: 980911 10:50:48
1988 TOWN CAR



CR15 0011188

CASAS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:29:59

Safety Laboratories Department, 610-A
PLOT PAGE 82

TB0731
9401 73

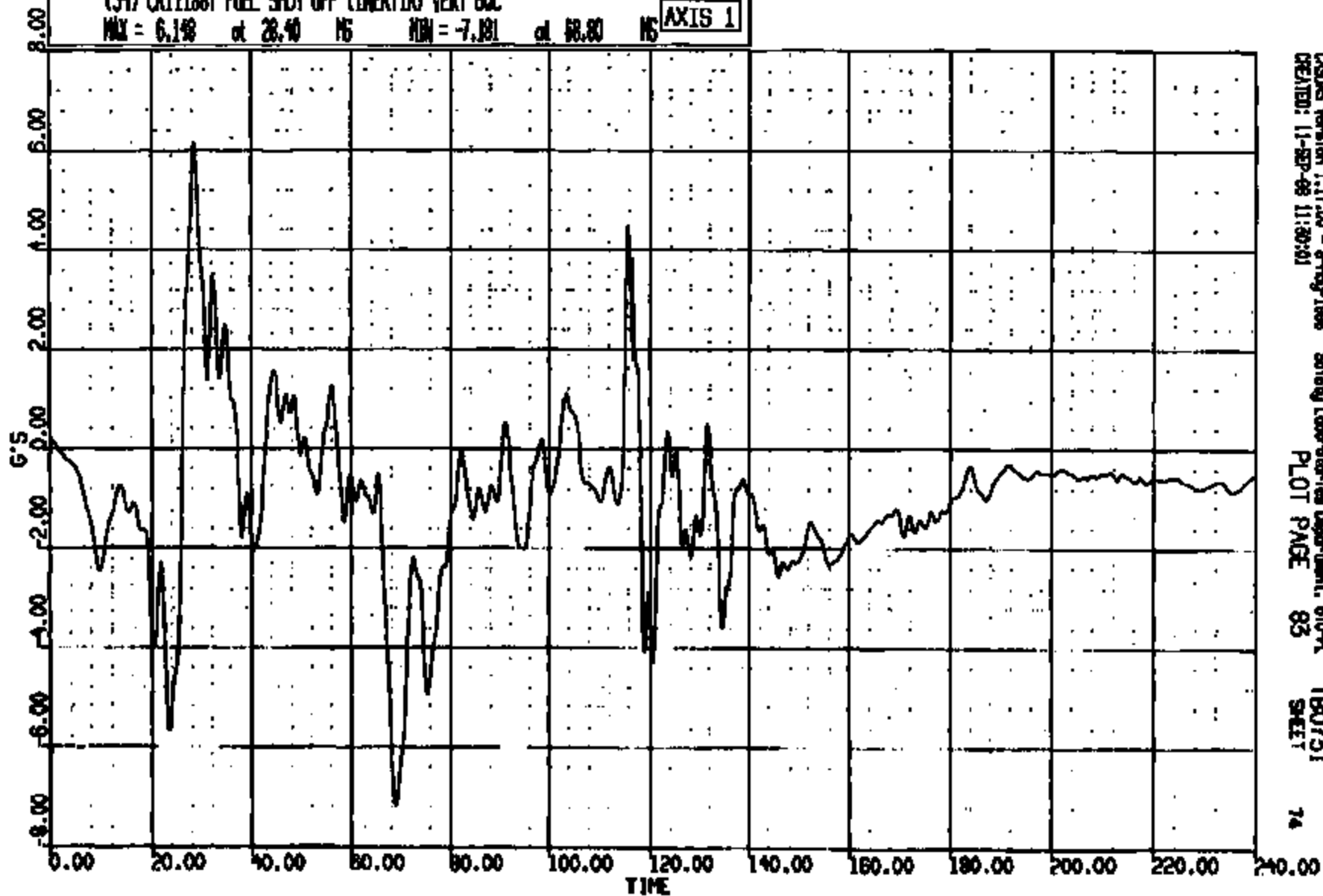
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: TB0731 DATE: 990911 10:50:48
1999 TOWN CAR

(54) CR111881 FUEL SHUT OFF (INERTIA) VERT GOC

MAX = 6.148 at 28.40 MS MIN = -7.181 at 68.80 MS

AXIS 1



CHAS Version 1.17.05 - 8-May-1998
CREATED: 11-SEP-98 11:30:01

Safety Laboratories Department, 610-A
PLOT PAGE 83

TB0731
SHEET

74

ENTIRE PAGE CONFIDENTIAL

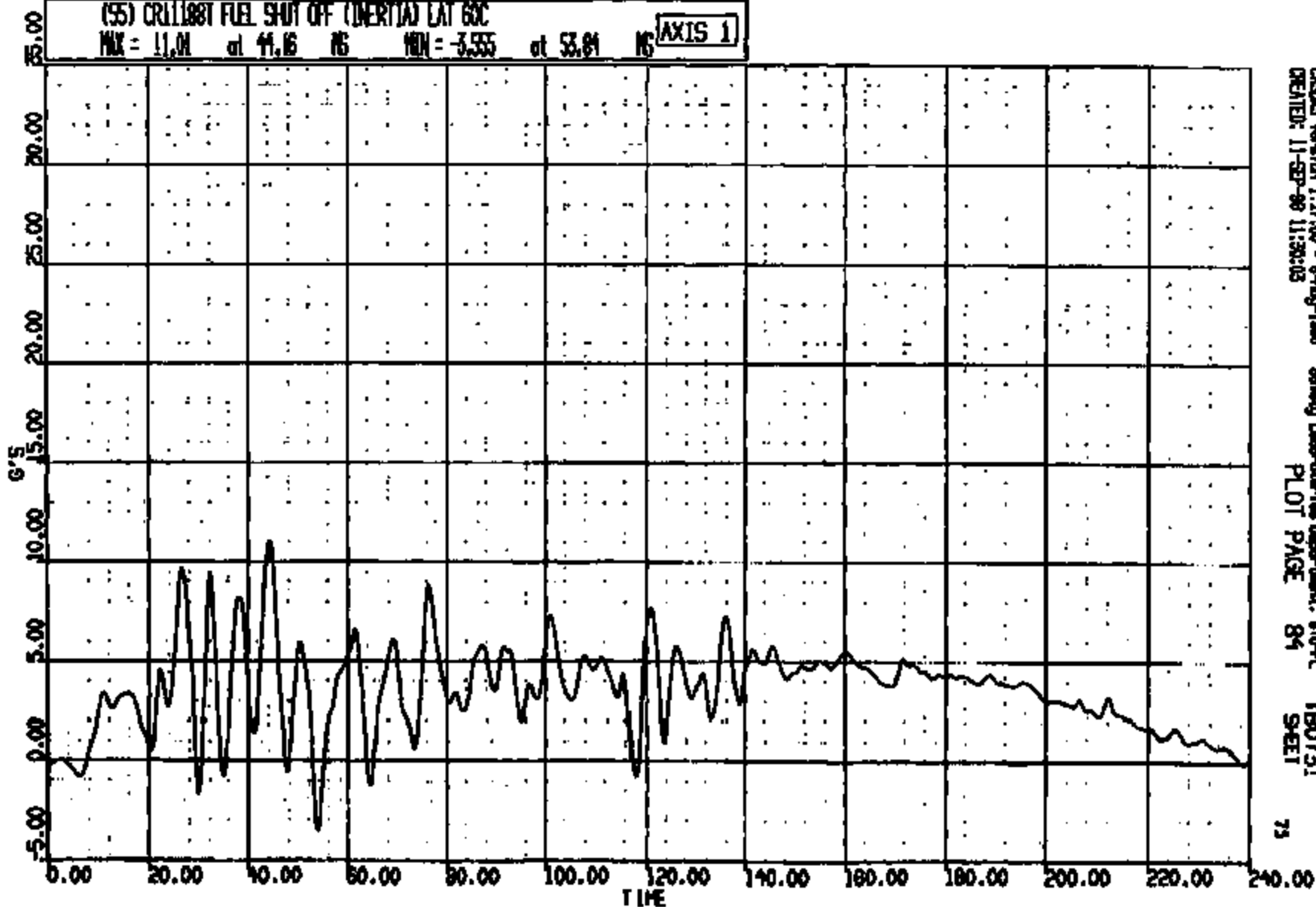
CR1S 0011188

CR R: 11188 TO: TB0731 DATE: 990911 10:50:43
1999 TOWN CAR

(55) CR1188T FUEL SHUT OFF (INERTIA) LAT 60C

MAX = 11.01 at 44.16 NG MIN = -3.555 at 53.81 NG

AXIS 1



CADDS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:30:03

Safety Laboratories Department, 610-PL TB0731
PLOT PAGE 84 SHEET

75

ENTIRE PAGE CONFIDENTIAL

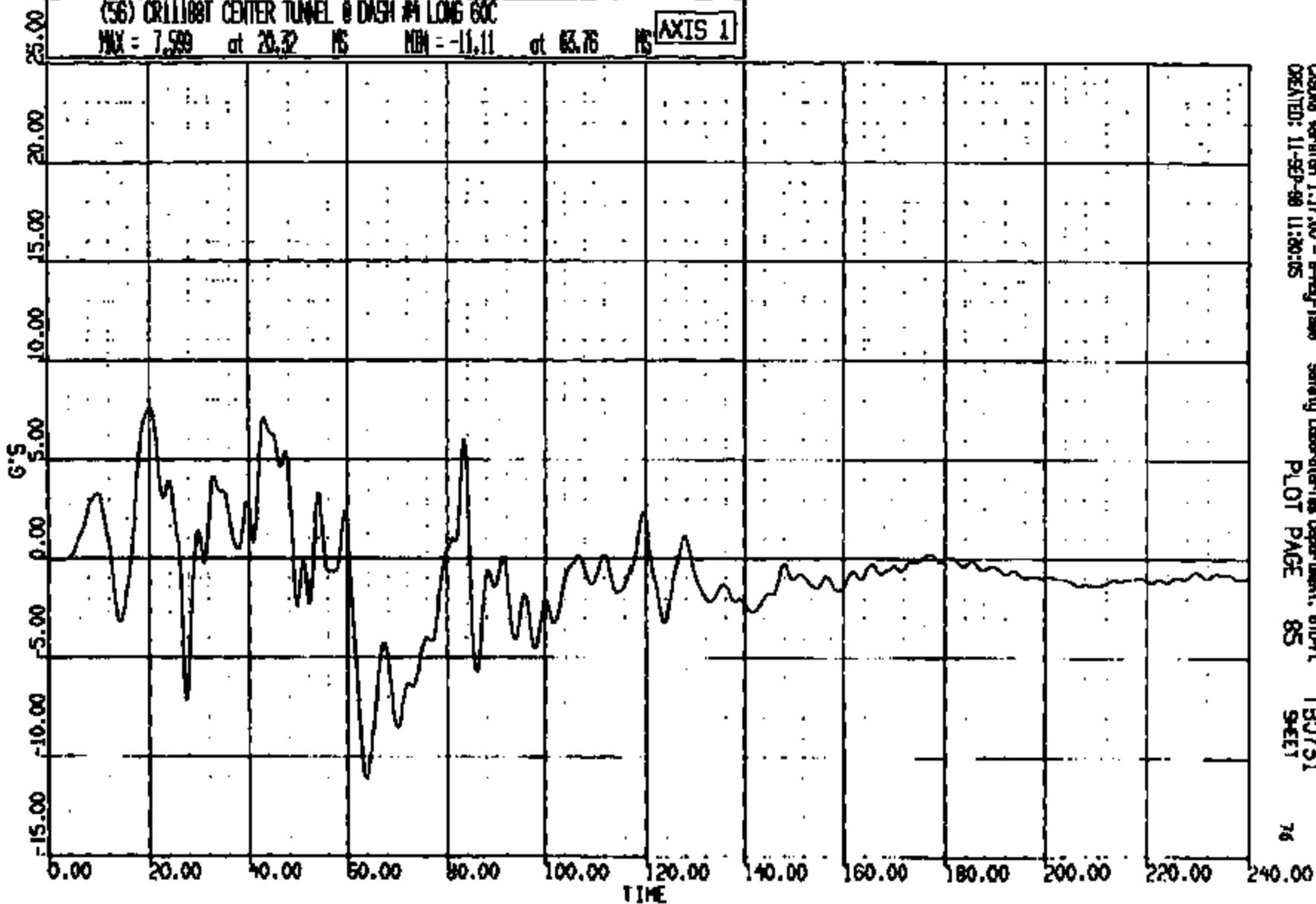
CRIS 0011188

CR R: 11188 TO: T80731 DATE: 880911 10:30:45
1988 TOWN CAR

(56) CR11188T CENTER TUNNEL @ DASH #4 LONG 60C

MAX = 7.599 at 20.32 MS MIN = -11.11 at 63.76 MS

AXIS 1



CASDAS Version 1.17.00 - 8-May-1989
CREATED: 11-SEP-88 11:30:05

Safety Laboratories Department, 670-PL
PLOT PAGE 85

T80731
SHEET

76

ENTIRE PAGE CONFIDENTIAL

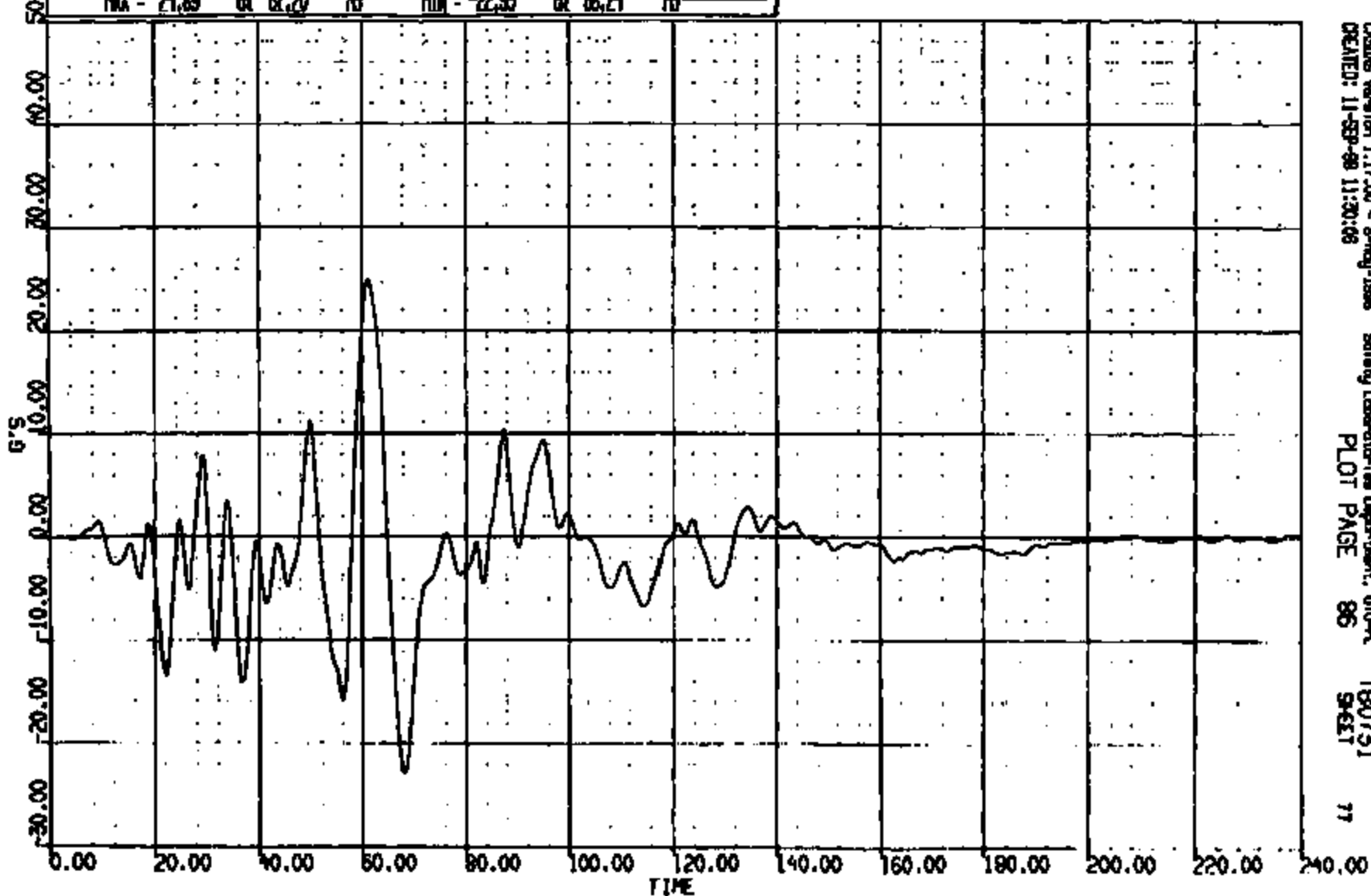
CRIS 0011188

CR R: 11188 TO: T80731 DATE: 980911 10:30:45
1999 TOWN CAR

(57) CR11188T CENTER TUNNEL @ DASH #4 VERT 60C

MAX = 24.89 at 61.20 MS MIN = -22.93 at 68.24 MS

AXIS 1



CASUS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:30:08

Safety Laboratories Department, 610-A
PLOT PAGE 86

T80731
SHEET 77

ENTIRE PAGE CONFIDENTIAL

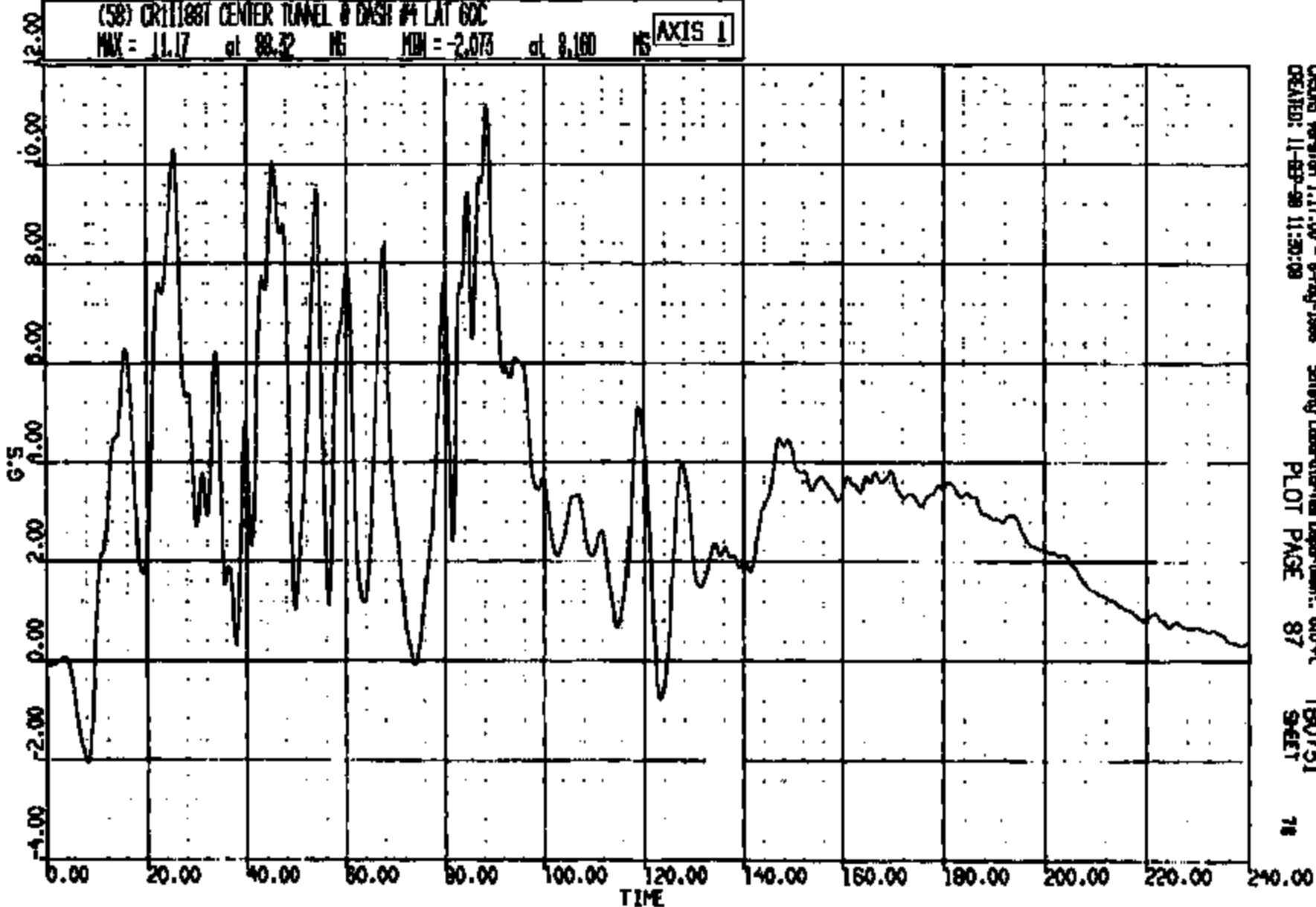
CRIS 001188

CR #: 11188 TO: TB0731 DATE: 880911 10:30:43
1988 TOWN CAR

(58) CR11887 CENTER TUNNEL 8 DASH #4 LAT 60C

MAX = 11.17 at 88.32 NS MIN = -2.073 at 8.160 NS

AXIS 1



CRSNG Version 1.17.00 - 8-May-1988
CREATED: 11-89-98 11:30:08

Safety Laboratories Department: 610-PL
PLOT PAGE 87

TB0731
SHEET

78

ENTIRE PAGE CONFIDENTIAL

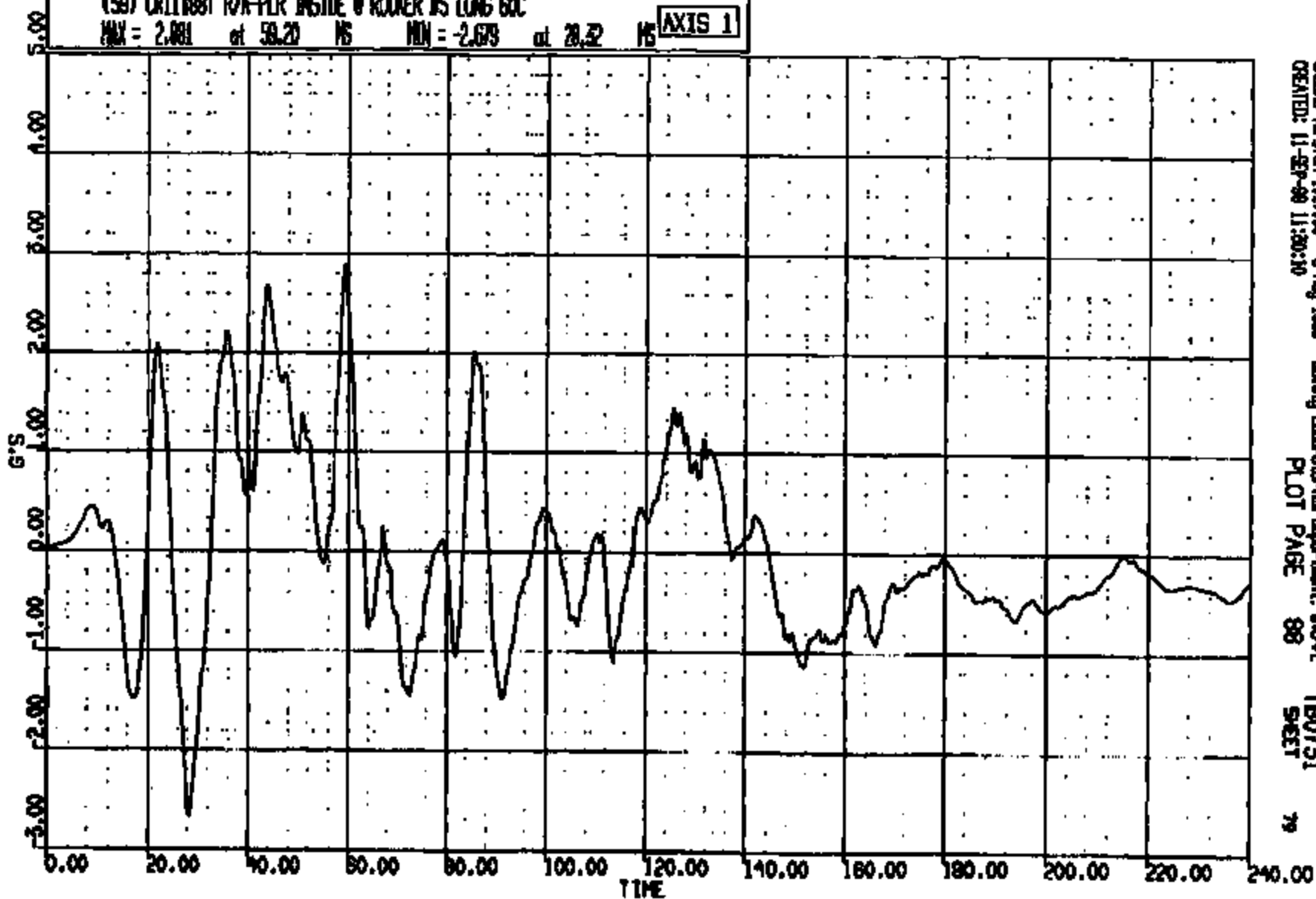
CRIS 0011185

CR R: 11188 TO: TB0731 DATE: 880911 10:50:48
1988 TOWN CAR

(59) CR11688T R/A-FLR INSIDE @ ROOFR JS LONG 60C

MAX = 2.881 at 58.20 MS MIN = -2.679 at 28.32 MS

AXIS 1



CRS Version 1.17.00 - 8-May-1988
CREATED: 11-58-88 11:30:10

Safety Laboratories Department, STD-1
PLOT PAGE 88

TB0731
SHEET 79

ENTIRE PAGE CONFIDENTIAL

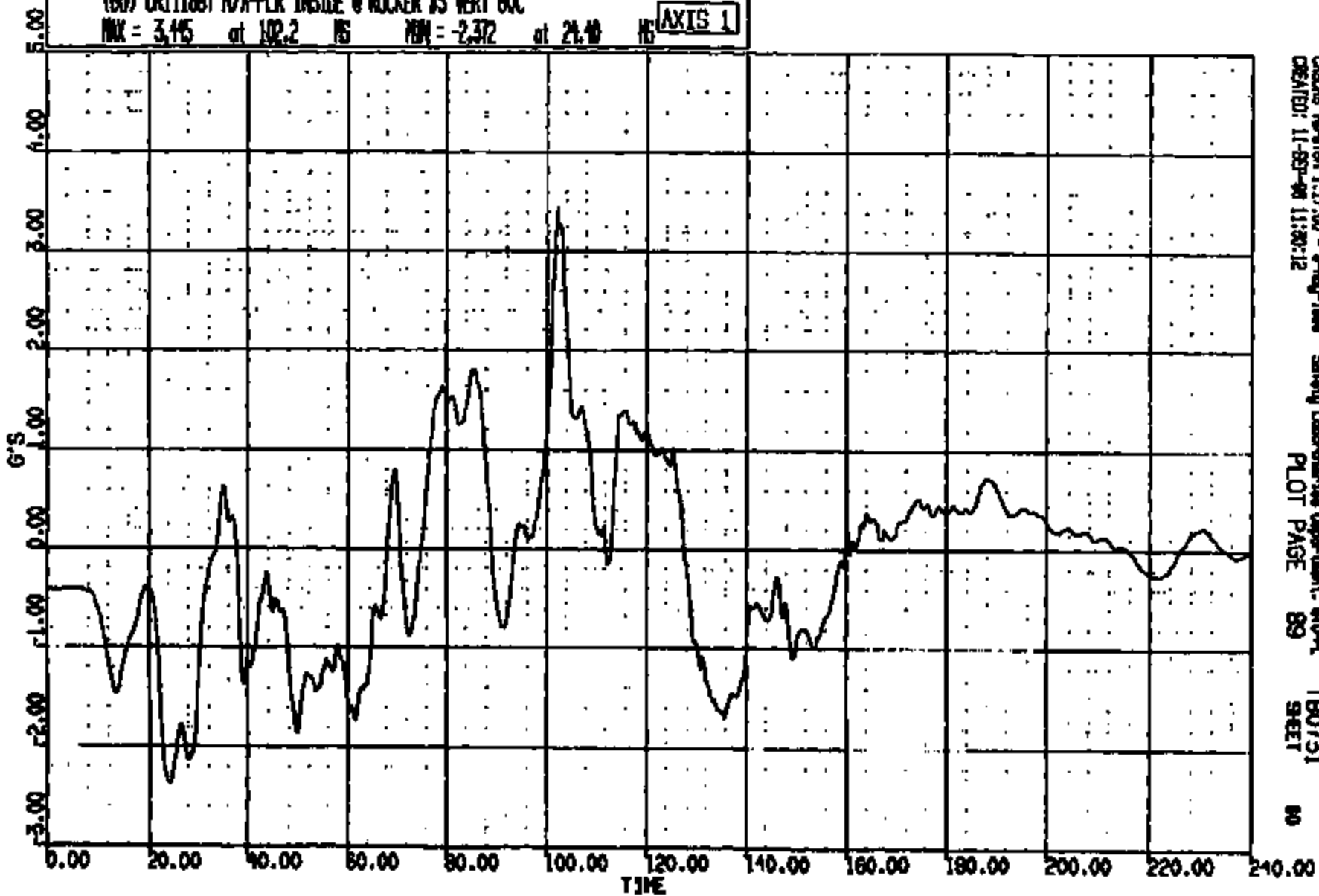
CRIS 001188

CR R: 11188 TO: TB0751 DATE: 980911 10:30:48
1998 TOWN CAR

(60) CR1188T R/A-PLR INSIDE @ ROCKER JS VERT 60C

MAX = 3.45 at 102.2 MS MIN = -2.372 at 21.40 MS

AXIS 1



CRSIS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:30:12

Safety Laboratory Department, 610-A
PLOT PAGE 89

TB0751
SHEET 80

ENTIRE PAGE CONFIDENTIAL

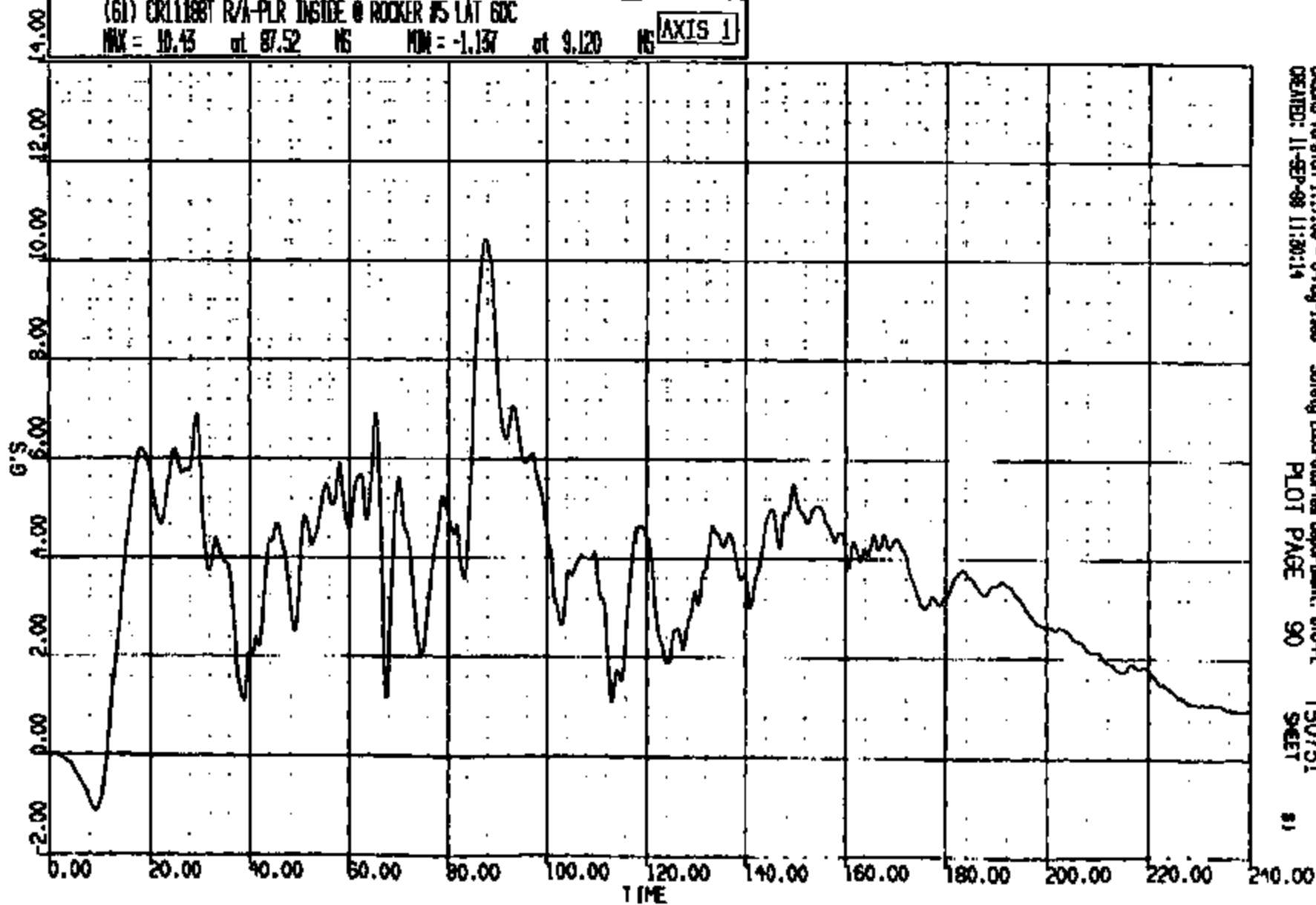
CRIS 001188

CR R: 11188 TO: T80731 DATE: 880811 10:50:43
1988 TOWN CAR

(61) CR11188T R/A-PLR INSIDE @ ROCKER #5 LAT 60C

MAX = 10.43 at 87.52 NS MIN = -1.137 at 9.120 NS

AXIS 1



CRSUS Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:30:14

Safety Laboratories Department, 610-A, T80731
PLOT PAGE 90

SHEET 81

ENTIRE PAGE CONFIDENTIAL

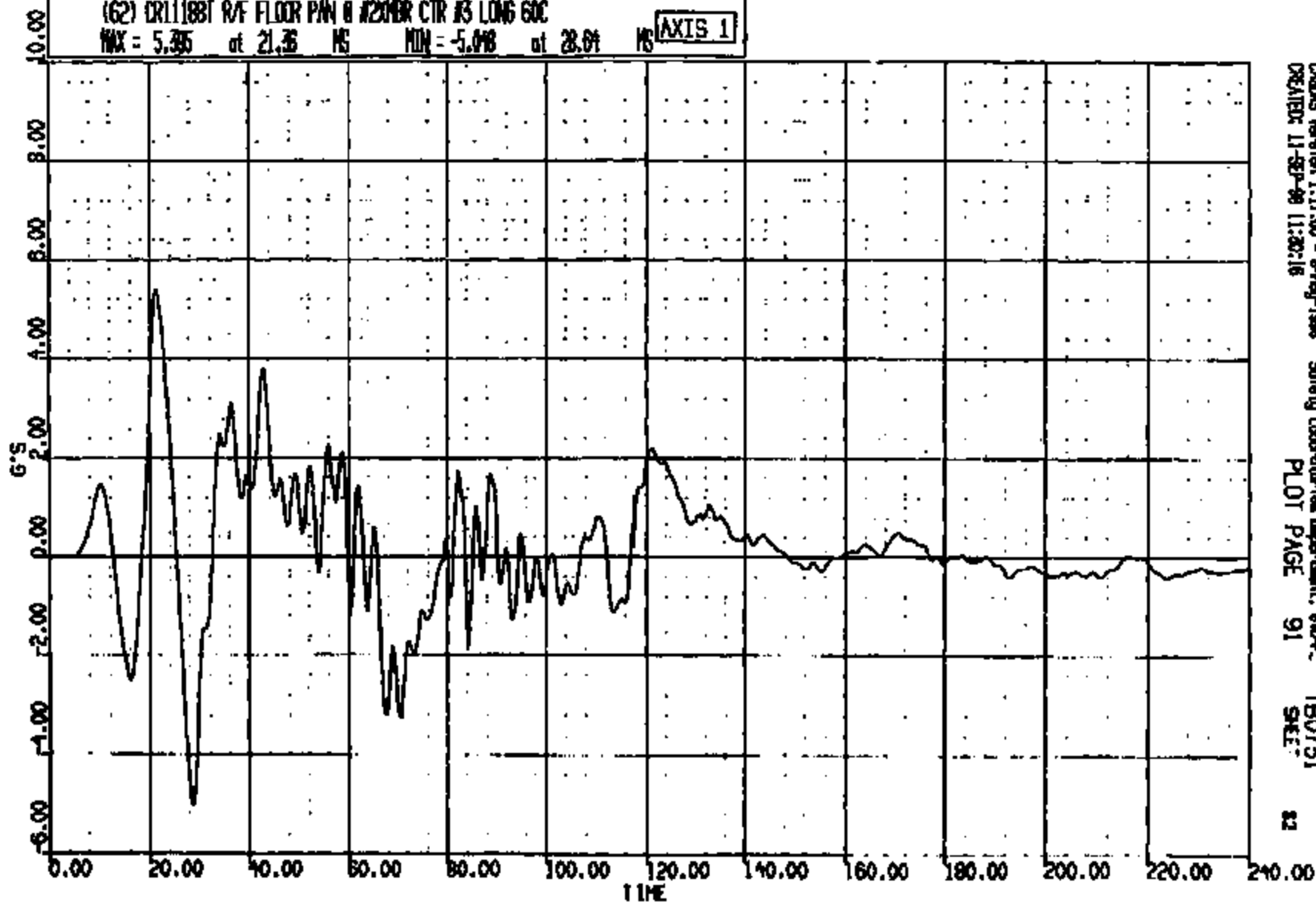
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:43
1999 TOWN CAR

(62) CR11188T R/F FLOOR PAN @ 12X10R CTR NS LONG 60C

MAX = 5.365 at 21.36 MS MIN = -5.048 at 28.04 MS

AXIS 1



CR1S 0011188

CRAMS Version 1.17.00 - 8-Feb-1998
CREATED: 11-SEP-98 11:20:16

Safety Laboratories Department, STD-2
PLOT PAGE 91

TB0731
SHEET 82

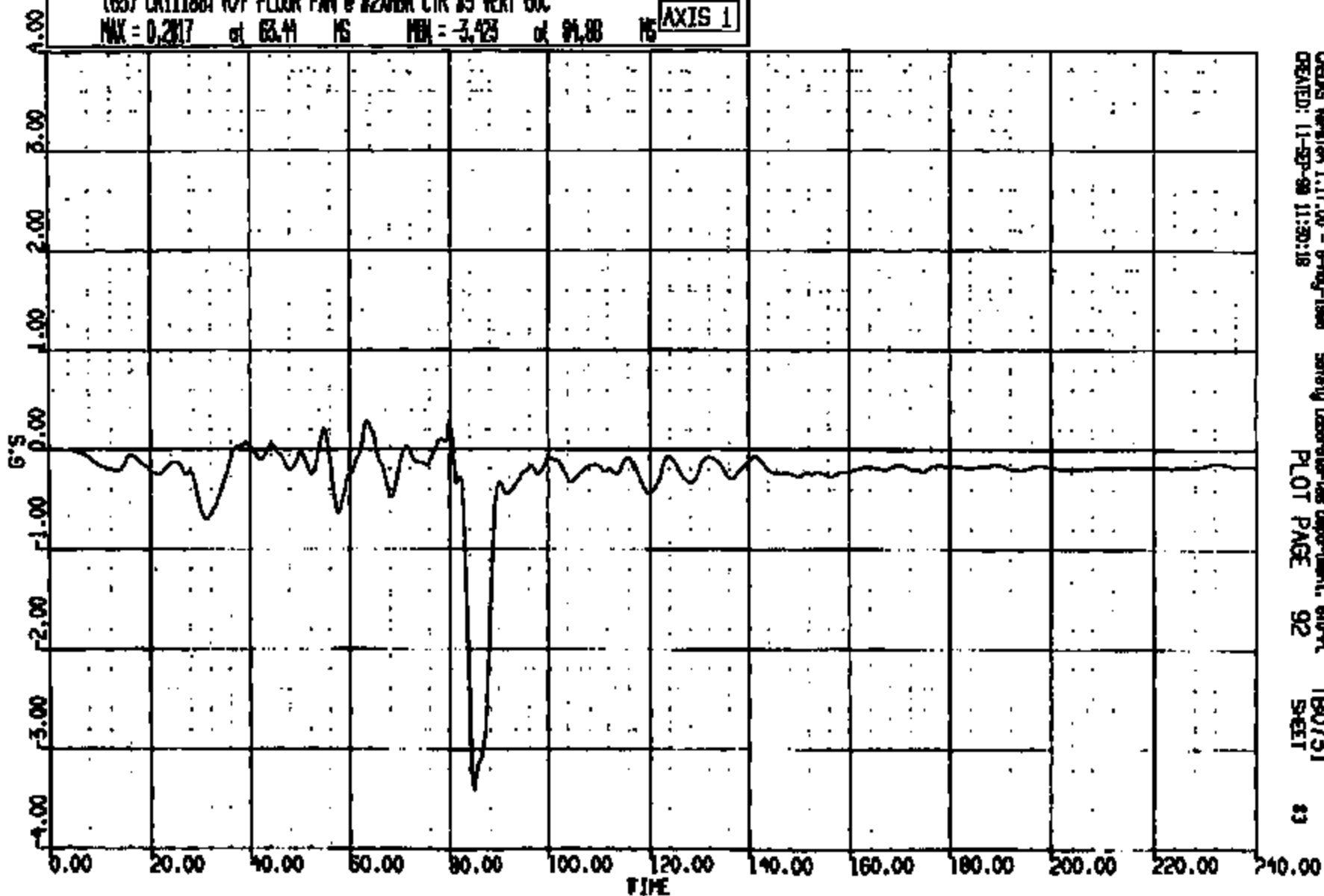
ENTIRE PAGE CONFIDENTIAL

CR R: 11188 TO: TB0751 DATE: 890811 10:30:48
1988 TOWN CAR

(63) CR11188T R/F FLOOR PAN @ #200R CTR JS VERT GOC

MAX = 0.2817 at 63.44 MS MIN = -3.423 at 81.88 MS

AXIS 1



CRS05 Version 1.17.00 - 8-Aug-1988
CREATED: 11-SEP-88 11:30:18

Safety Laboratories Department, 610-PL
PLOT PAGE 92 TB0751
SHEET 33

ENTIRE PAGE CONFIDENTIAL

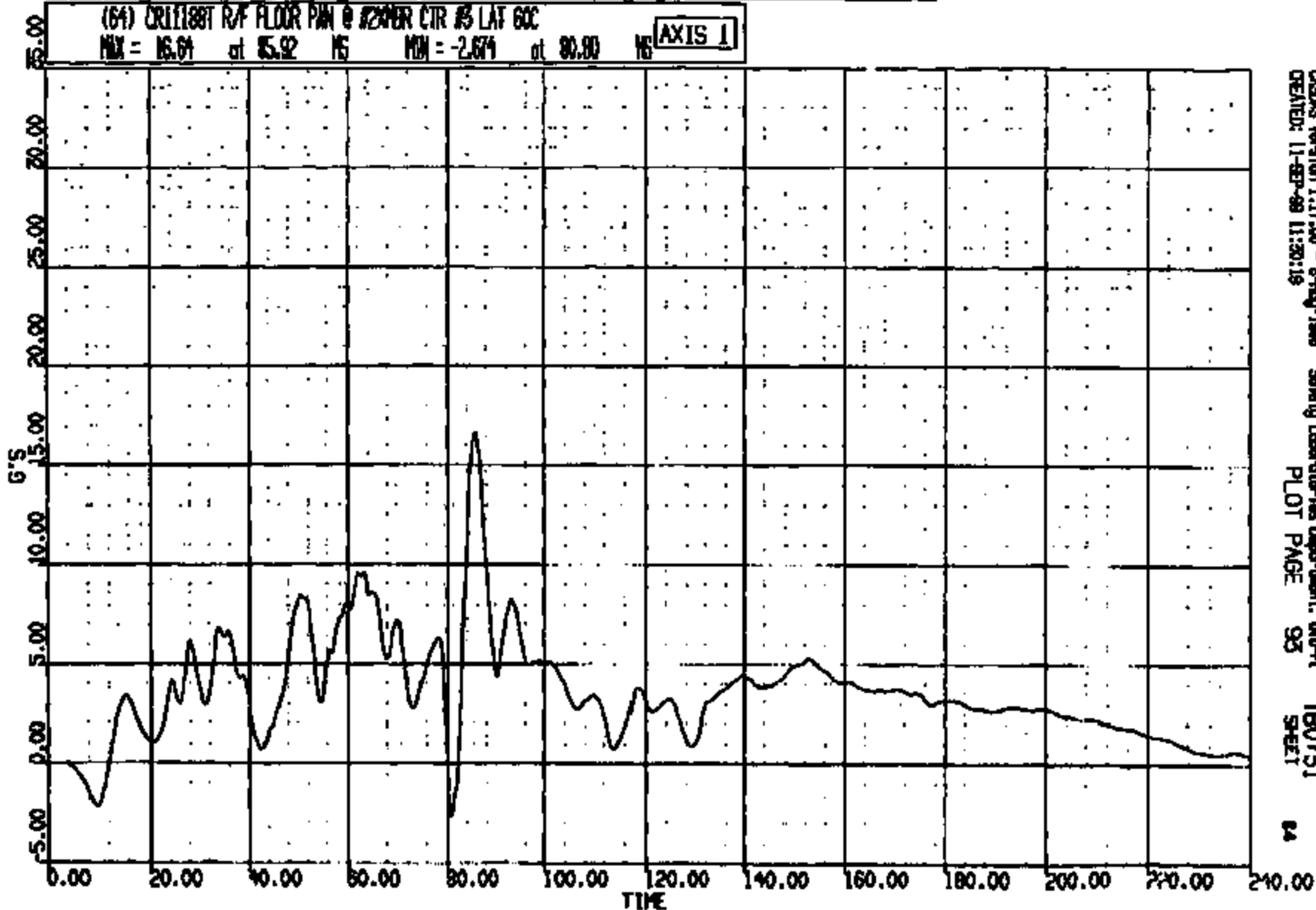
CRIS 0011188

CR R1 11188 TO: TB0751 DATE: 980911 10:50:45
1999 TOWN CAR

(64) CR11188T R/F FLOOR PAN @ #200R CTR #3 LAT 60C

MAX = 16.04 at 85.92 NS MIN = -2.674 at 80.00 NS

AXIS 1



CASMS Version 1.17.00 - 8-Feb-1999
CREATED: 11-SEP-98 11:30:19

Safety Laboratories Department, G10-91
PLOT PAGE 93

TB0751
SHEET 64

ENTIRE PAGE CONFIDENTIAL

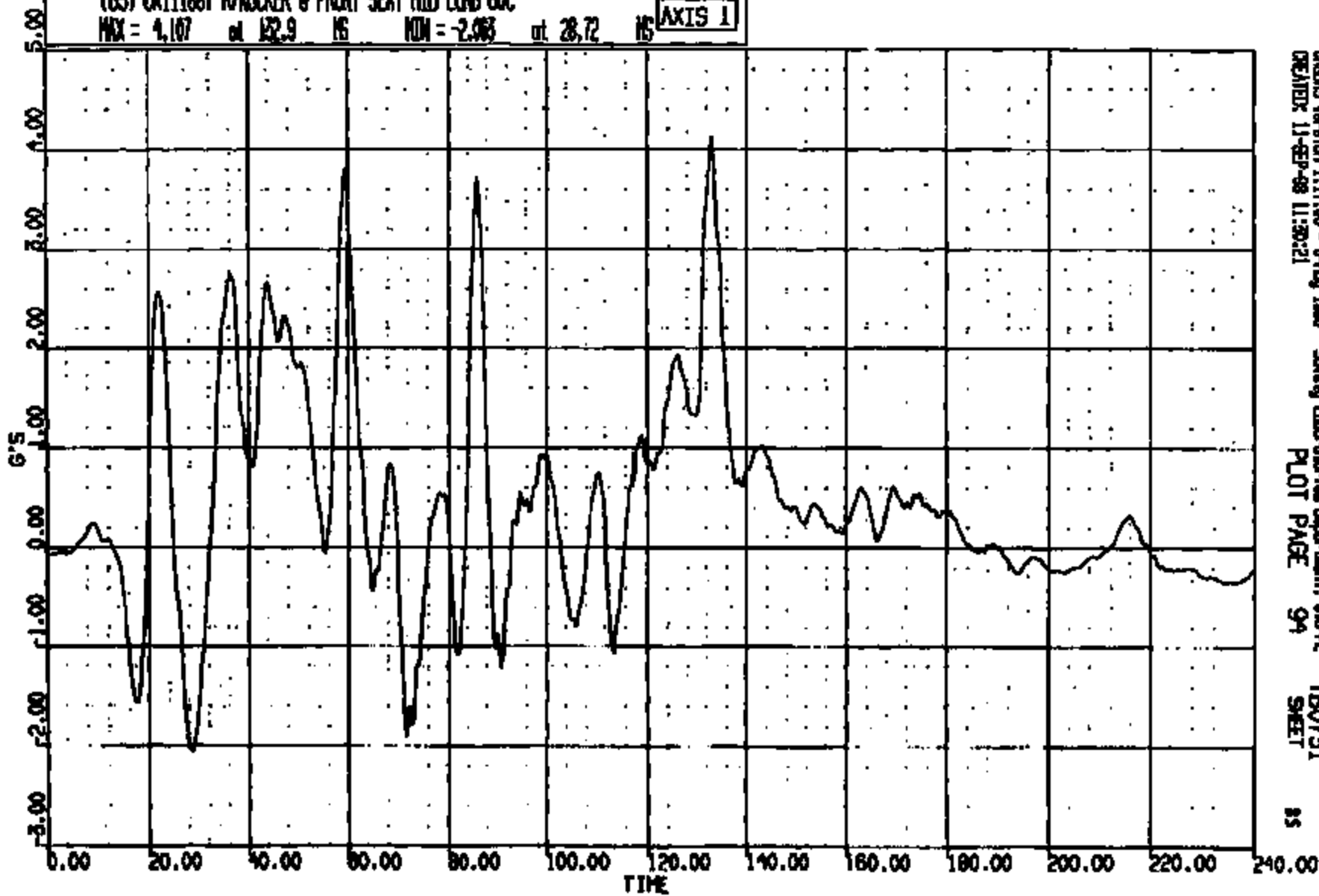
CR11188

CR R: 11188 TO: T80751 DATE: 880811 10:50:48
1989 TOWN CAR

(65) CR11188T R/ROCKER @ FRONT SEAT MID LONG 60C

MAX = 4.167 at 132.9 HS MIN = -2.063 at 28.72 HS

AXIS 1



CRASH Version 1.17.00 - 8-May-1988
CREATED: 11-SEP-88 11:30:21

Safety Laboratories Department, 610-A
PLOT PAGE 94

T80751
SHEET

85

ENTIRE PAGE CONFIDENTIAL

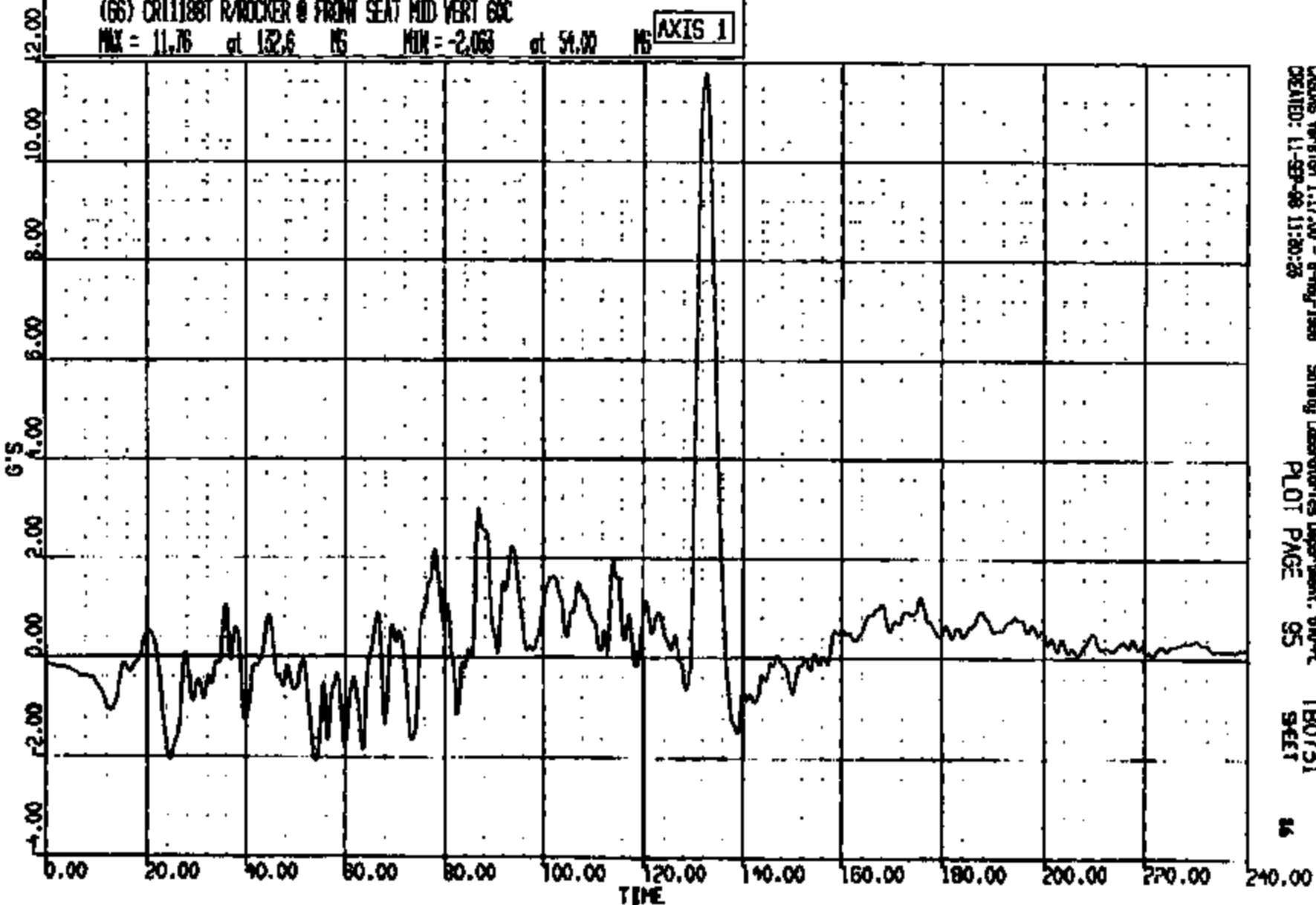
CR11188

CR R: 11188 TO: TB0751 DATE: 990911 10:50:45
1999 TOWN CAR

(66) CR11188T R/ROCKER @ FRONT SEAT MID VERT GAC

MAX = 11.76 at 132.6 MS MIN = -2.063 at 54.00 MS

AXIS 1



CASAS Version 1.17.00 - 8-Aug-1999
CREATED: 11-SEP-99 11:30:25

Safety Laboratories Department, 000-94
PLOT PAGE 95

TB0751
SHEET

16

ENTIRE PAGE CONFIDENTIAL

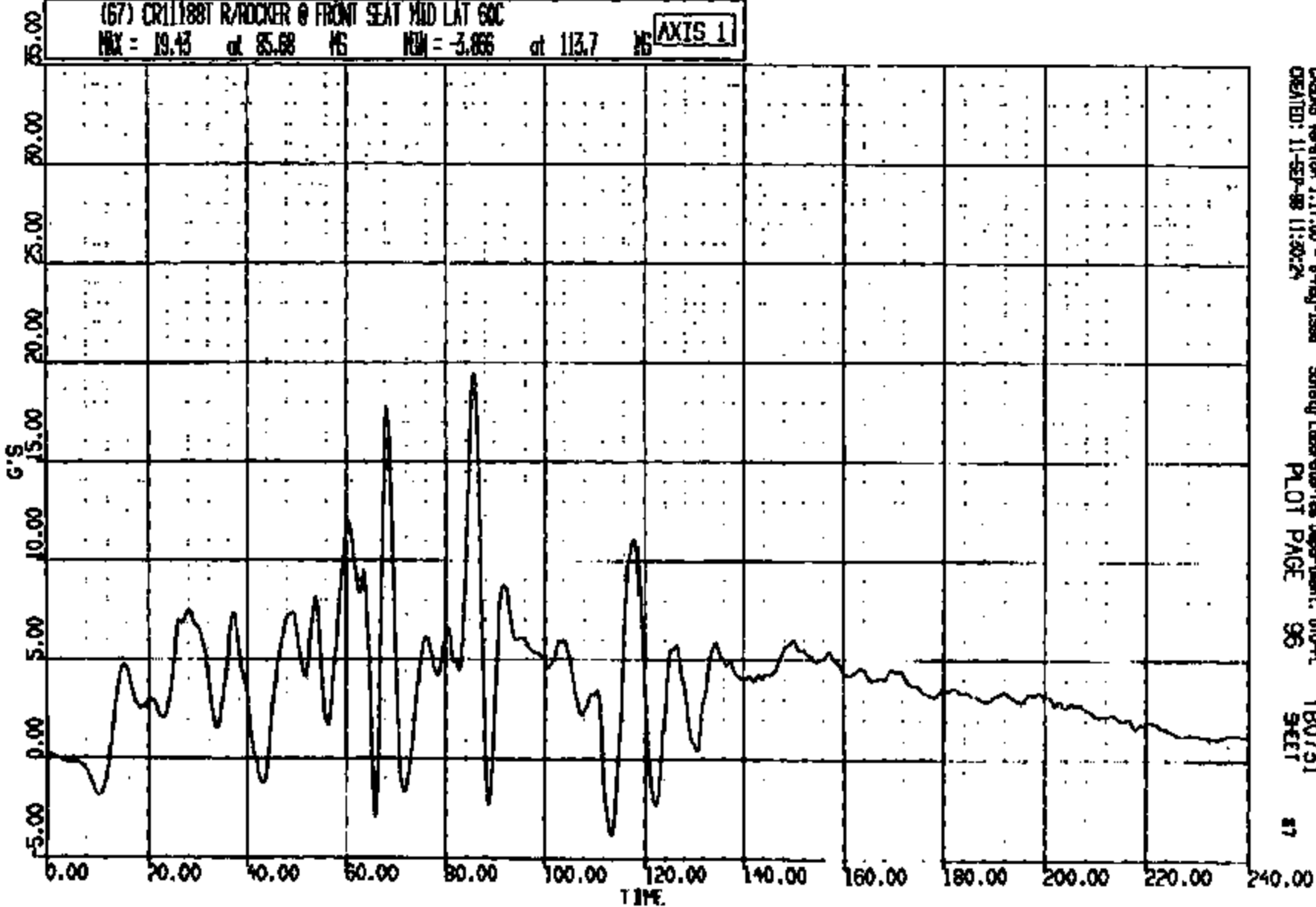
CRIS 0011188

CR #: 11188 TO: TB0731 DATE: 980911 10:50:43
1999 TOWN CAR

(67) CR11188T R/ROCKER @ FRONT SEAT MID LAT 60C

MAX = 19.43 at 85.68 MS MIN = -3.866 at 113.7 MS

AXIS 1



CADDS Version 1.17.00 - 8-Aug-1998
CREATED: 11-SEP-98 11:30:24

Safety Laboratories Department, 610-PL
PLOT PAGE 96

TB0731
SHEET

87

ENTIRE PAGE CONFIDENTIAL

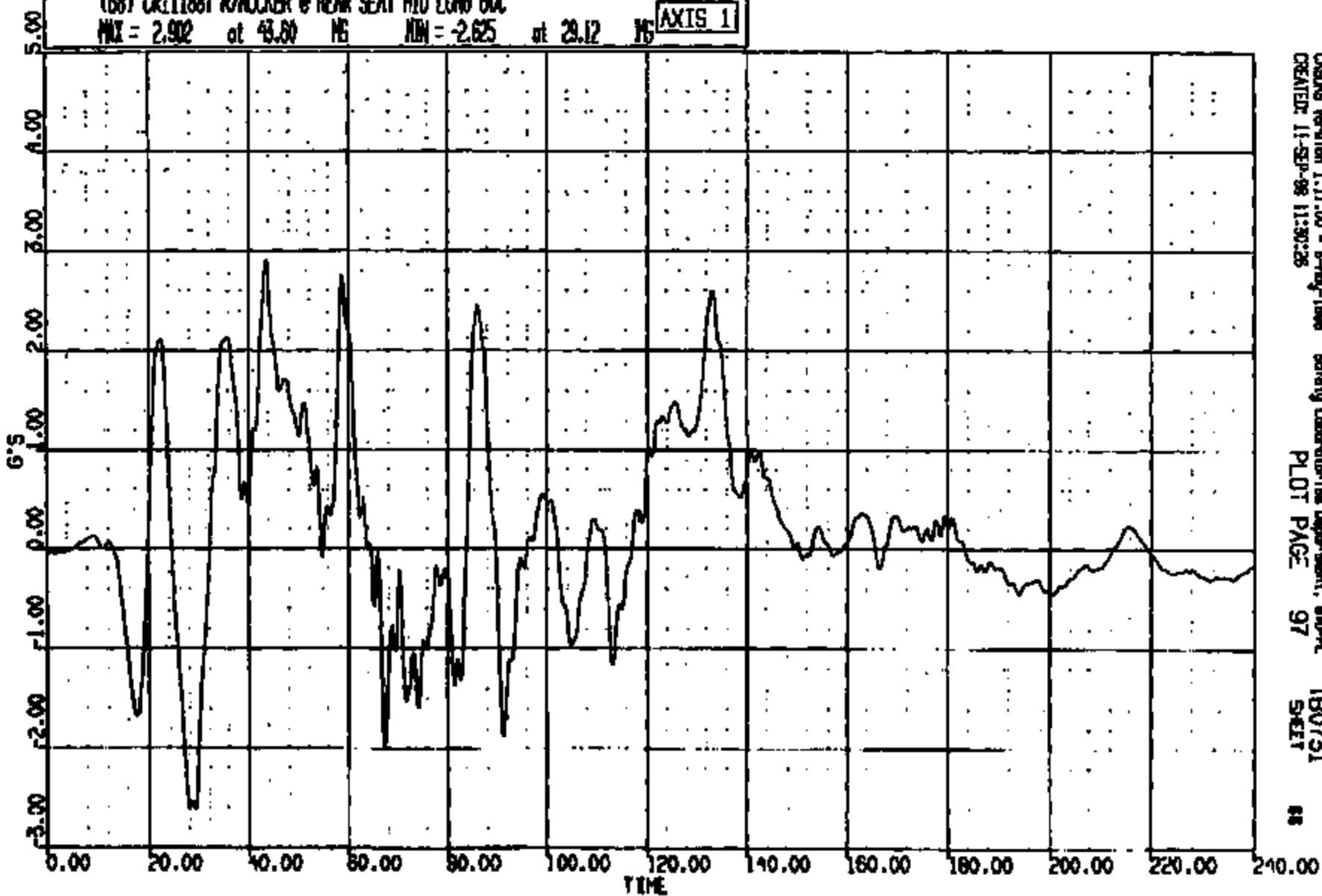
CRIS 0011188

CR #: 11188 TO: TB0731 DATE: 080911 10:50:48
1999 TOWN CAR

(68) CR11188T R/ROCKER @ REAR SEAT MID LONG 60C

MAX = 2.902 at 43.60 MS MIN = -2.625 at 29.12 MS

AXIS 1



CASMS Version 1.17.00 - 8-May-1999
CREATED: 11-SEP-99 11:30:28

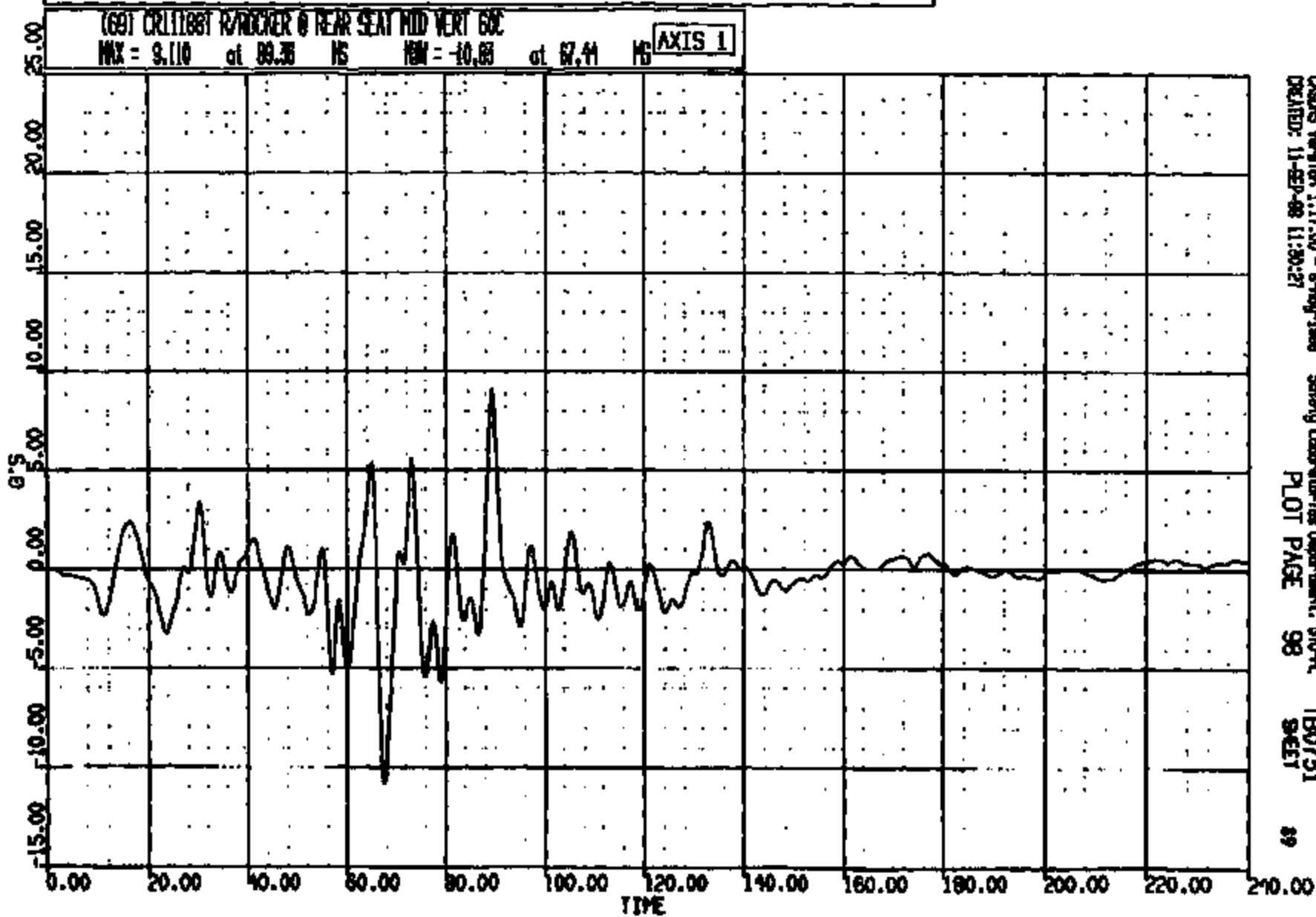
Safety Laboratories Department, 550-A
PLOT PAGE 97

TB0731
SHEET 68

ENTIRE PAGE CONFIDENTIAL

CR1S 0011188

CR R: 11188 TO: TB0731 DATE: 980911 10:50:45
1999 TOWN CAR



CADDS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:30:27

Safety Laboratories Department, 510-A
PLOT PAGE 98

TB0731
98ET 89

ENTIRE PAGE CONFIDENTIAL

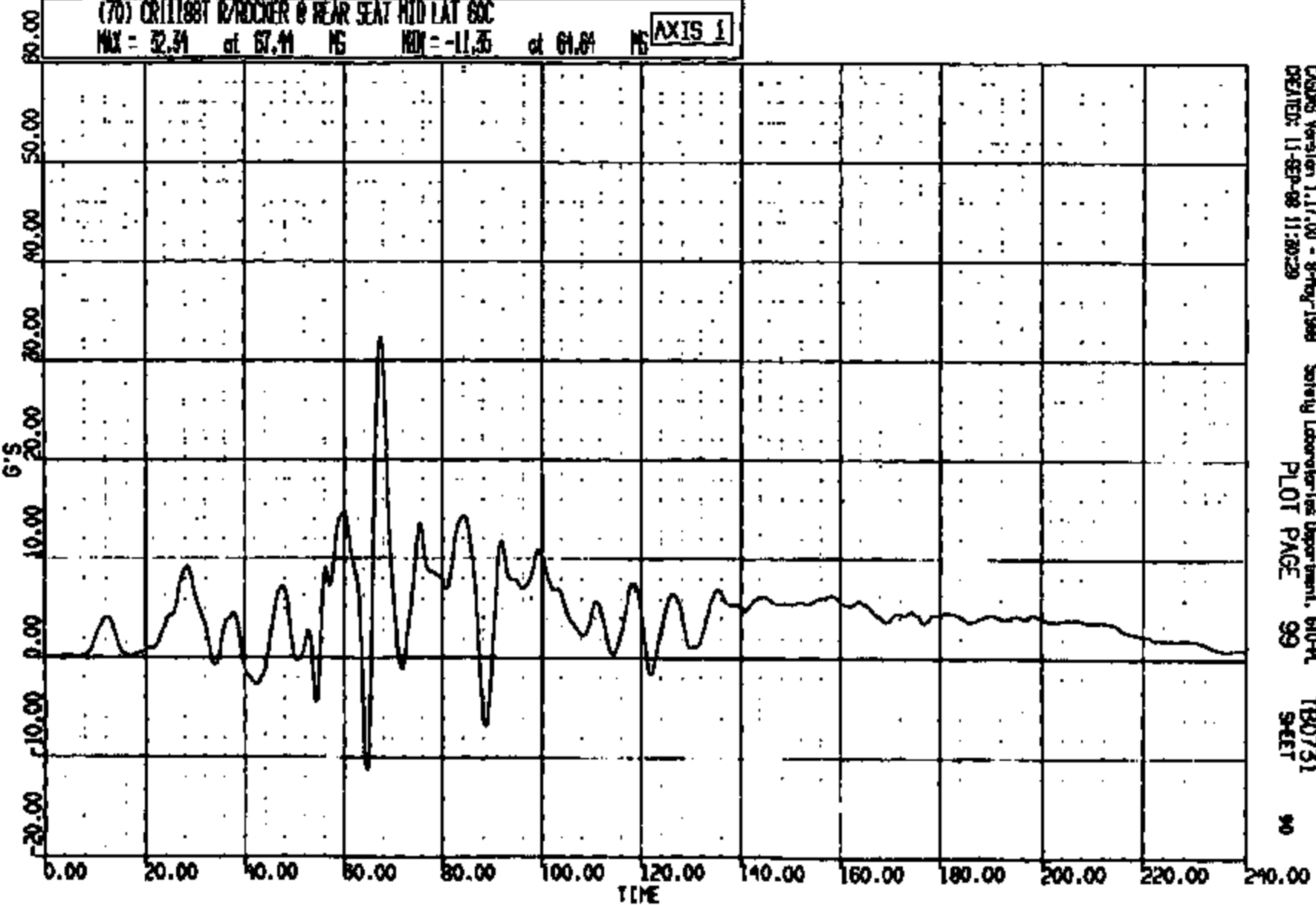
CR1S 0011188

CR R: 11188 TO: TB0731 DATE: 880911 10:50:48
1999 TOWN CAR

(70) CR11188T R/ROCKNER @ REAR SEAT MID LAT SOC

MAX = 32.34 at 67.41 MS MIN = -11.35 at 61.84 MS

AXIS 1



CASAS Version 1.17.00 - 8-May-1998
CREATED: 11-SEP-98 11:20:29

Safety Laboratories Department, 610-PL
PLOT PAGE 99

TB0731
S-SET 90

ENTIRE PAGE CONFIDENTIAL

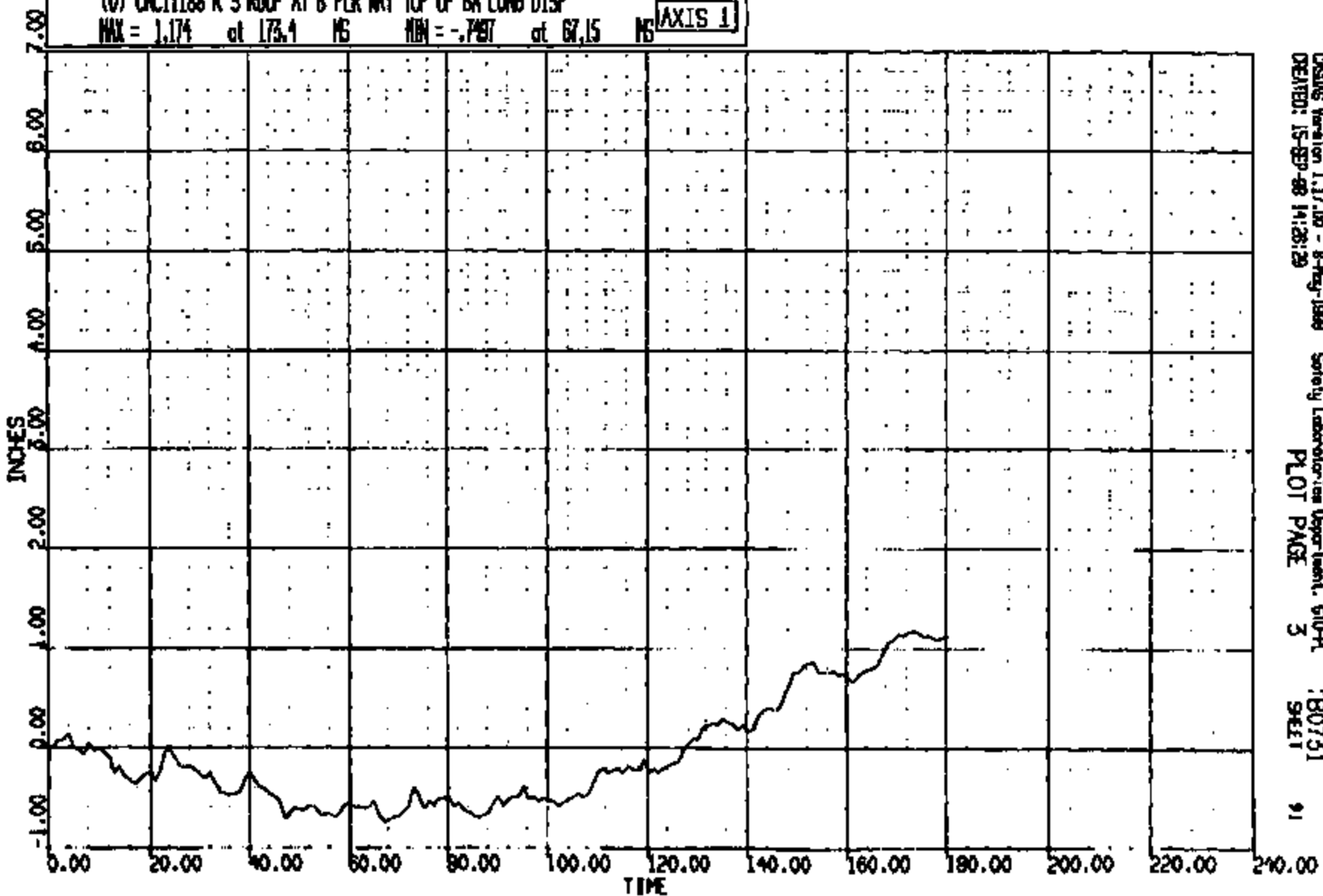
CR11188

CR R: 11188 TO: TB0731 DATE: 960911 10:50:48
1999 TOWN CAR

(0) CR011188 R S ROOF AT B PLR WRT TOP OF BA LONG DISP

MAX = 1.174 at 173.4 MS MIN = -.7487 at 67.15 MS

AXIS 1



CASUS Version 1.17.00 - 8-May-1999
CREATED: 15-SEP-98 14:28:29

Safety Laboratory Department, 610-P
PLOT PAGE 3

TB0731
9611 91

ENTIRE PAGE CONFIDENTIAL

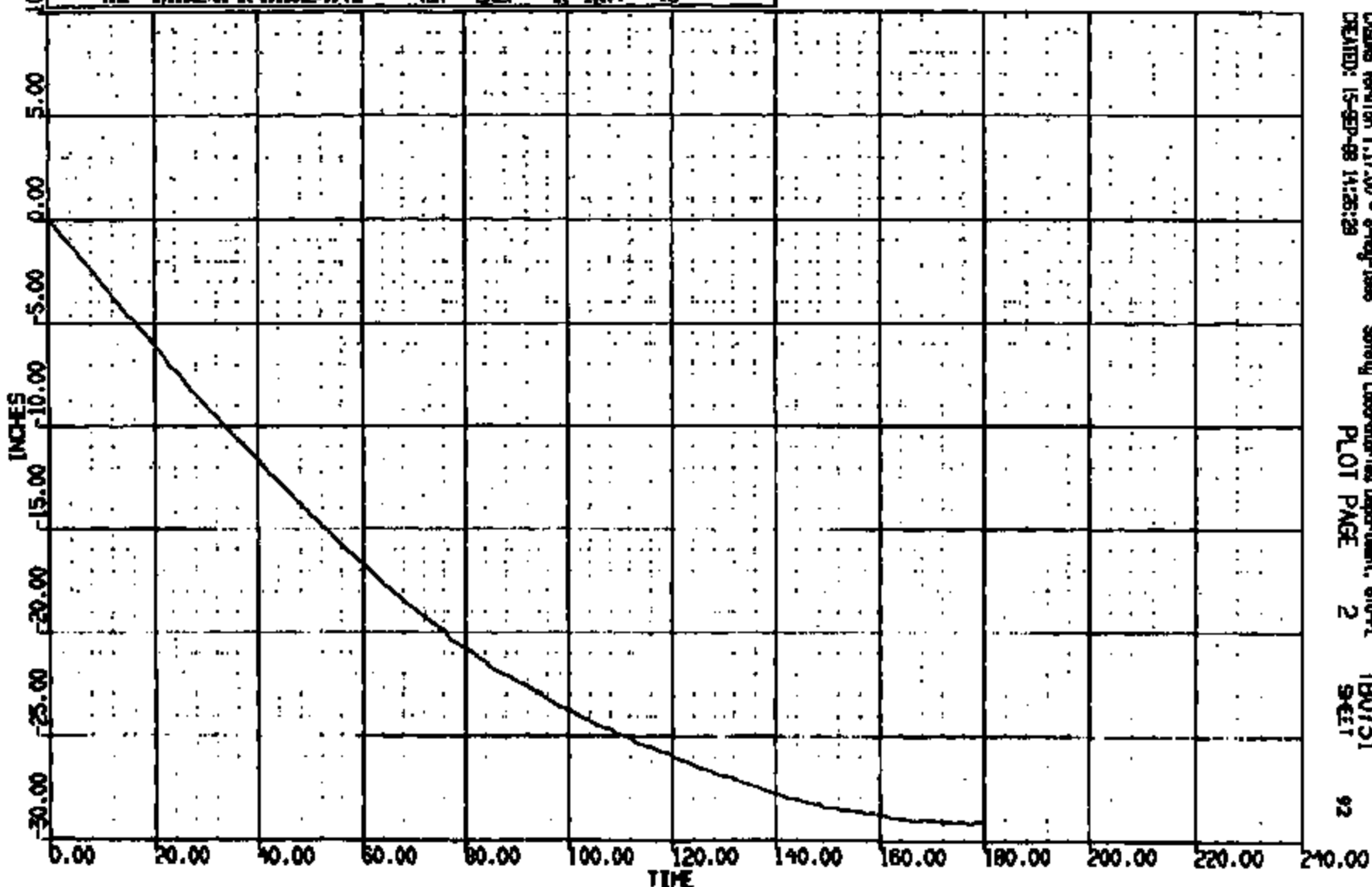
CRIS 0011188

CR R: 11188 TO: TB0731 DATE: 990811 10:50:45
1999 TOWN CAR

(0) CRCL1188 R S ROOF AT B PLR WRT TOP OF BWR LAT DISP

MAX = 0.000E+00 at 0.000E+00 MS MIN = -29.27 at 180.4 MS

AXIS 1



CASING Version 1.17.00 - 8-Aug-1998
CREATED: 15-SEP-98 14:26:29

Safety Laboratories Department, 610-A
PLOT PAGE 2

TB0731
SET

92

ENTIRE PAGE CONFIDENTIAL

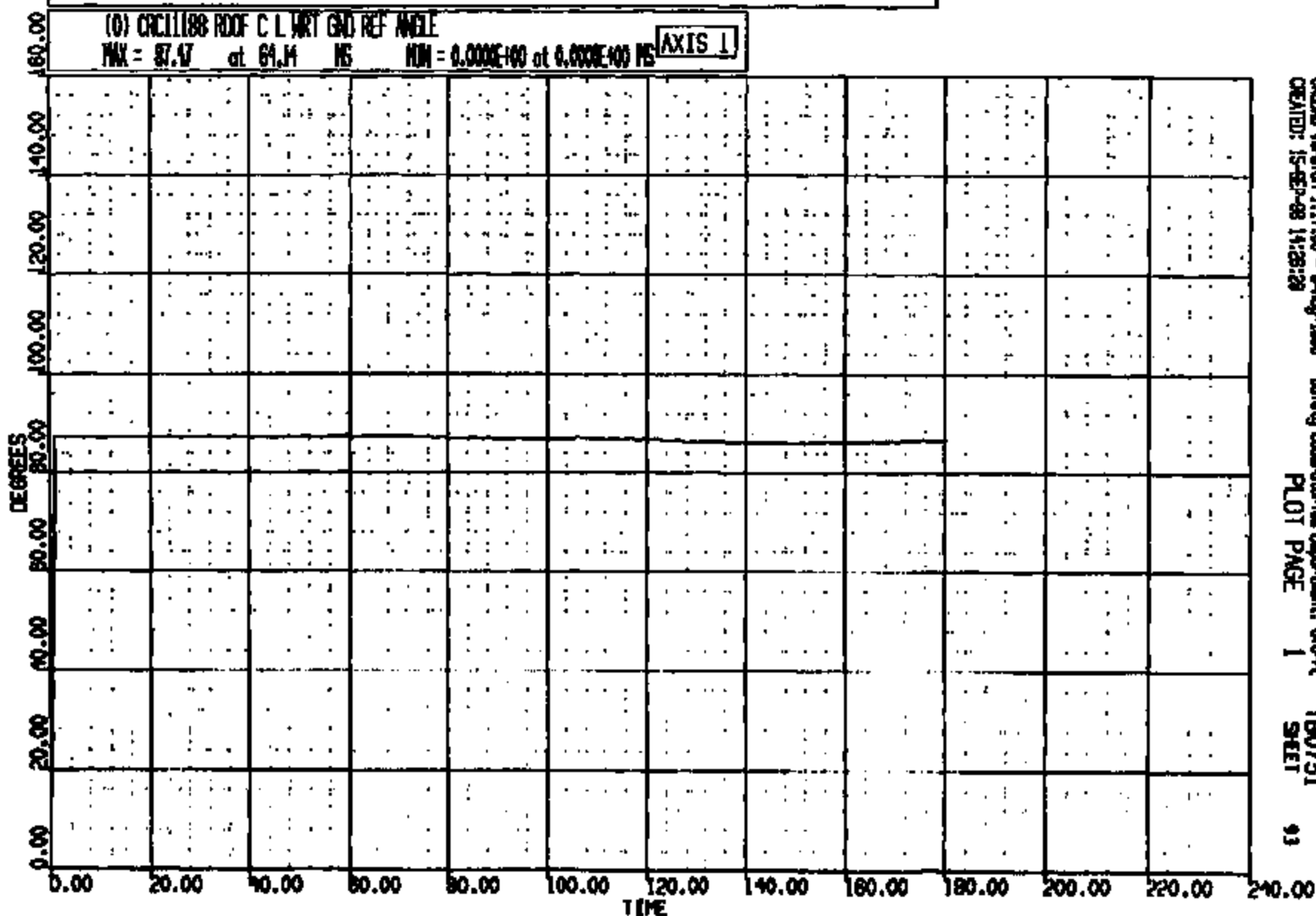
CRIS 001188

CR #: 11188 TO: TB0731 DATE: 980911 10:30:48
1988 TOWN CAR

(0) CR11188 ROOF C L WRT GND REF ANGLE

MAX = 87.17 at 64.14 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CASAS Version 1.17.00 - 8-May-1998
CREATED: 15-SEP-98 14:28:28

Seelye Laboratories Department, 610-A
PLOT PAGE 1

TB0731
SHEET 93

ENTIRE PAGE CONFIDENTIAL

CRIS 0011188

ASC TO #: T- TW0731

DIMENSIONAL ANALYSIS REPORT

CRASH #: 11100

VEHICLE INFORMATION

TEST DESCRIPTION: 90 DEG. LEFT SIDE FIXED POLE
VEHICLE PROGRAM YEAR: 1999
VEHICLE MODEL NAME: TOWN CAR
VEHICLE PROGRAM NAME: TOWN CAR
VEHICLE ID NUMBER: 590T002
CERTIFICATION VEHICLE CODE: DV
REQUESTOR NAME: J. E. ADAMCZYK
TEST NUMBER NAME:

TIME AND DATE OF REPORT: 22-SEP-98 14:34:16

CRTS 0011188

T-B0731
94

ENTIRE PAGE CONFIDENTIAL

** POINT COORDINATES **

INCHES

INCHES CHANGED

UNIT NO	MT SIDE	NO	DESCRIPTION		LONG X	LAT Y	VERT Z	X	Y	Z	D
871			MISCELLANEOUS / SIDES								
	L	07	CONTROL NOTCH/WOOL C/L SET DR/SIDE REAR./PASS	DEF AFT	124.42	-30.56	14.81				
	R	07	CONTROL NOTCH/WOOL C/L SET DR/SIDE REAR./PASS	DEF AFT	124.41	30.41	14.83				
875			CNH POSITIONING / SIDED								
		41	CNH FRONT DOOR OPENING A PILLAR	DEF AFT	114.17	-25.28	57.65				
		42	CNH FRONT DOOR OPENING* A PILLAR (A SYS.6)MDEL	DEF AFT	92.81	-32.30	42.71				
		43	CNH FRONT DOOR OPENING* A PILLAR (A SYS.6)MROCKE	DEF AFT	95.54	-33.13	19.78				
		44	CNH FRONT DOOR OPENING ROCKE	DEF AFT	126.11	-33.29	19.81				
		46		DEF AFT	139.17	-29.65	59.67				
		47		DEF AFT	135.70	-33.49	40.42				
		48		DEF AFT	137.04	-32.87	19.18				
		49		DEF AFT	134.57	-33.24	19.08				
		53		DEF AFT	94.39	37.82	20.38				
		56		DEF AFT	121.48	32.96	19.76				

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 77-SEP-96 14:56:15

PAGE 1

CRIS 0011188

95
T-50731

ENTIRE PAGE CONFIDENTIAL

RNT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES ** INCHES			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
005			CONTROL NON SIZED								
		09	LEFT FRONT FRAME SET-UP HEIGHT (HMD. OF SILL)	DEF AFT	93.04	-29.36	14.59				
		10	LEFT REAR FRAME SET-UP HEIGHT (HMD. OF SILL)	DEF AFT	152.02	-29.07	13.41				
		14	RIGHT FRONT FRAME SET-UP HEIGHT (HMD. OF SILL)	DEF AFT	90.47	29.38	14.75				
		15	RIGHT REAR FRAME SET-UP HEIGHT (HMD. OF SILL)	DEF AFT	152.15	29.20	13.86				
411			TOP (BODY) NON SIZED								
		01	EXTRA SET UP POINT (LEFT FOREMOST FRAME)	DEF AFT	31.22 48.16	-19.91 -24.67	19.43 19.33	8.94	-4.76	-0.10	10.13
		02	EXTRA SET UP POINT (RIGHT FOREMOST FRAME)	DEF AFT	32.34 34.90	20.93 18.43	17.95 22.29	4.36	-2.18	4.36	6.51
		03	EXTRA SET UP POINT (LEFT REARMOST FRAME)	DEF AFT	226.29 224.30	-24.49 -27.75	19.84 19.14	-1.99	-3.26	-0.70	1.00
		04	EXTRA SET UP POINT (RIGHT REARMOST FRAME)	DEF AFT	226.17 225.46	24.95 21.12	19.95 20.34	-0.31	-3.00	0.59	3.06
		26	"H" POINT LOCATION ON OUTER FRT/OCCUPANT DOOR	DEF AFT	120.76	-28.69	28.27				
		38	TOP OF ROCKER SILL IN LINE W/FRONT "H" PT.	DEF AFT	120.79	-31.26	18.96				
		36	"H.B.T." ON ROCKER SIDE OPPOSITE OF HPAE	DEF AFT	129.56 129.56	33.99 33.99	18.96 18.96	0.00	0.00	0.00	0.00

412 TOP (BODY) SIZED POINTS

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 22-SEP-98 14:34:15

PAGE 2

CRIS 0011188

LEFT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATE **			INCHES CHAINED			
				LONG X	LAT Y	VERT Z	X	Y	Z	D
L	09	END OF FRONT SPINDLE B CENTERLINE(MIDLINE)	REF AFT	65.00 64.61	-32.86 -32.40	18.59 14.84	3.81	-0.34	-4.55	5.23
R	09	END OF FRONT SPINDLE B CENTERLINE(MIDLINE)	REF AFT	63.15 63.30	32.27 32.61	18.58 18.36	0.15	-0.66	0.36	0.77
L	10	FRONT FENDER LIP(BOTTOM SIDE) B AXLE C/LINE	REF AFT	63.80 68.26	-37.28 -38.49	35.88 38.33	5.26	-1.29	-5.35	7.41
R	10	FRONT FENDER LIP(BOTTOM SIDE) B AXLE C/LINE	REF AFT	65.16 61.56	34.67 34.88	35.80 35.48	-0.68	-1.87	-0.32	1.89
L	16	LATCH/STRIKER BOLT BC/L OR U-BOLTTOP ON PILLA	REF AFT	128.92	-33.34	31.51				
R	16	LATCH/STRIKER BOLT BC/L OR U-BOLTTOP ON PILLA	REF AFT	128.91 128.85	33.60 33.40	31.79 31.75	-0.08	-0.28	-0.04	0.22
L	18	LATCH/STRIKER BOLT BC/L OR U-BOLTTOP ON PILLA	REF AFT	169.53	-33.98	38.82				
R	18	LATCH/STRIKER BOLT BC/L OR U-BOLTTOP ON PILLA	REF AFT	169.48 169.44	33.93 32.48	38.26 38.38	-0.02	-1.47	0.12	1.48
L	24	REAR FENDER LIP (BOTTOM SIDE) B AXLE C/LINE	REF AFT	181.20 177.25	-38.84 -38.58	33.39 39.50	-3.95	0.34	-3.89	5.55
R	24	REAR FENDER LIP (BOTTOM SIDE) B AXLE C/LINE	REF AFT	181.32 181.58	39.13 37.15	33.45 34.81	0.24	-1.88	0.34	2.83
L	29	END OF REAR SPINDLE B CENTERLINE(MIDLINE)	REF AFT	181.20 178.74	-31.82 -32.64	17.85 17.97	-2.44	-0.84	-5.88	5.71
R	29	END OF REAR SPINDLE B CENTERLINE(MIDLINE)	REF AFT	181.32 180.85	31.94 30.73	16.88 16.52	-0.47	-1.21	-0.36	1.35
480		BLANK UNIT POINT								
	01	SEE COMMENTS PAGE	REF AFT	92.14	-79.37	24.44				

* VALUE WAS IMAGINED

TIME AND DATE OF REPORT: 22-SEP-98 14:34:14

PAGE 3

CRITS 0011128

LIST NO	SIDE	PNT NO	DESCRIPTION		** POINT COORDINATES **			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
		02	2	SEE COMMENTS PAGE DEF APT	114.73	-32.88	48.95				
		05	5	SEE COMMENTS PAGE DEF APT	108.10	-32.14	38.22				
		06	4	SEE COMMENTS PAGE DEF APT	98.43	-32.23	30.15				
		05	5	SEE COMMENTS PAGE DEF APT	124.69	-32.14	29.92				
		06	6	SEE COMMENTS PAGE DEF APT	137.10	-22.34	58.25				
		07	7	SEE COMMENTS PAGE DEF APT	133.87	-39.25	42.99				
		08	8	SEE COMMENTS PAGE DEF APT	129.47	-39.55	38.87				
		09	9	SEE COMMENTS PAGE DEF APT	129.34	-39.54	22.00				
		10	10	SEE COMMENTS PAGE DEF APT	92.80	8.64	24.64				
		11	11	SEE COMMENTS PAGE DEF APT	93.01	30.89	22.43				
		12	12	SEE COMMENTS PAGE DEF APT	124.42	18.94	17.82				
		13	13	SEE COMMENTS PAGE DEF APT	124.38	-18.78	17.89				
		14	14	SEE COMMENTS PAGE DEF APT	63.16 62.57	36.00 33.98	38.00 38.43	-0.59	-2.02	-0.35	2.13
		15	15	SEE COMMENTS PAGE DEF APT	127.81 121.91	26.89 34.15	41.87 41.33	0.48	-1.85	0.24	1.87

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 22-SEP-98 14:34:16

PAGE 4

CRIS 0011188

98
T-80731

ENTIRE PAGE CONFIDENTIAL

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 11188

** POINT COORDINATES **											
INT NO	SIDE	PMT NO	DESCRIPTION		INCHES			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
16	16		SEE COMMENTS PAGE	DEF AFT	95.52 93.64	30.30 31.22	15.52 15.21	0.12	0.92	-0.31	0.08
17	17		SEE COMMENTS PAGE	DEF AFT	161.44 155.75	39.42 29.32	14.33 14.41	-3.69	-0.90	-0.12	5.75
18	18		SEE COMMENTS PAGE	DEF AFT	115.69	31.40	15.29				
19	19		SEE COMMENTS PAGE	DEF AFT	155.57	31.32	14.86				
20	20		SEE COMMENTS PAGE	DEF AFT	37.13	-12.48	42.85				

* VALUE NOT TRANSLATED

TIME AND DATE OF REPORT: 22 SEP 98 14:34:06

PAGE 5

CRTS 0011188

99
T-B0731

ENTIRE PAGE CONFIDENTIAL

** SECTIONALS **

SET NO	ORTH NO	SIDE NO	NAME AND CRASH STATUS	X	Y	Z
425	01		DETLING EXTERIOR SECT			
	1	AFTER		71.99	-36.43	36.05
	2	AFTER		73.79	-36.32	36.27
	3	AFTER		83.96	-36.10	36.38
	4	AFTER		94.03	-35.98	36.49
	5	AFTER		95.51	-36.13	36.53
	6	AFTER		98.94	-35.28	36.85
	7	AFTER		103.61	-33.35	37.14
	8	AFTER		107.57	-31.31	37.38
	9	AFTER		110.68	-29.09	37.61
	10	AFTER		112.51	-27.58	37.73
	11	AFTER		114.15	-26.40	37.83
	12	AFTER		116.82	-25.63	38.83
	13	AFTER		121.32	-19.47	38.46
	14	AFTER		122.54	-18.66	38.52
	15	AFTER		124.43	-17.36	38.63
	16	AFTER		125.09	-17.02	38.38
	17	AFTER		125.44	-16.83	38.57
	18	AFTER		125.81	-16.55	38.68
	19	AFTER		126.27	-16.29	38.81
	20	AFTER		127.53	-16.09	38.79

TIME AND DATE OF REPORT: 12-SEP-98 16:34:15

PAGE 1

CRIS 0011188

7-80731
100

ENTIRE PAGE CONFIDENTIAL

** SECTIONAL **

LIST NO	ACTN NO	SEC NO	NAME AND DRAIN STATUS	X	Y	CHGZS Z
		21	AFTER	128.41	-16.44	38.73
		22	AFTER	129.29	-17.18	38.71
		23	AFTER	130.84	-18.20	38.81
		24	AFTER	131.54	-18.72	38.86
		25	AFTER	132.95	-18.49	38.27
		26	AFTER	141.82	-23.31	38.38
		27	AFTER	154.72	-30.24	38.30
		28	AFTER	164.41	-35.40	38.38
		29	AFTER	170.71	-38.86	38.18
		30	AFTER	172.65	-35.70	37.63
		31	AFTER	176.63	-36.48	37.99

625 81

INFLINE EXTENSION SECT

1	AFTER	81.75	-37.45	26.13
2	AFTER	87.87	-37.36	26.49
3	AFTER	92.62	-37.32	26.62
4	AFTER	94.76	-37.59	26.63
5	AFTER	103.33	-33.57	26.98
6	AFTER	106.29	-32.15	27.14
7	AFTER	109.62	-30.08	27.45
8	AFTER	114.23	-28.44	27.78
9	AFTER	116.47	-26.33	27.98

TIME AND DATE OF REPORT: 22-SEP-98 14:34:13

PAGE 2

CRIS 0011188

101
T-100731

ENTIRE PAGE CONFIDENTIAL

** SECTIONS **

UNIT NO	SECTION NO	SIDE	SEA NO	NAME AND CRASH STATUS	X	Y	INCHES Z
	10	AFTER			118.60	-21.84	25.18
	11	AFTER			121.47	-18.88	25.44
	12	AFTER			122.43	-18.02	25.53
	13	AFTER			122.91	-17.46	25.61
	14	AFTER			123.34	-17.14	25.57
	15	AFTER			123.82	-16.86	25.63
	16	AFTER			124.80	-16.27	25.65
	17	AFTER			125.79	-15.98	25.59
	18	AFTER			127.11	-15.88	25.65
	19	AFTER			129.11	-16.51	25.64
	20	AFTER			130.72	-17.49	25.60
	21	AFTER			131.51	-18.06	25.67
	22	AFTER			131.82	-20.24	25.44
	23	AFTER			131.78	-20.44	25.44
	24	AFTER			133.25	-21.96	25.43
	25	AFTER			137.37	-23.26	25.42
	26	AFTER			140.71	-30.66	25.46
	27	AFTER			157.39	-34.53	25.46
	28	AFTER			161.66	-36.84	25.43
	29	AFTER			164.41	-35.99	27.09
	30	AFTER			168.28	-36.89	27.13

TIME AND DATE OF REPORT: 22-SEP-88 16:34:55

PAGE 3

CRIS 0011188

102

T-80731

ENTIRE PAGE CONFIDENTIAL

** SECTIONALS **

UNIT	SECT	SEC				
NO	NO	SIDE	NO	NAME AND CHAIN STATUS	X	Y
						Z

437 U1

CHARACTER LINE EXT SECT

1	AFTER	84.78	-34.57	18.54
2	AFTER	95.14	-34.85	18.79
3	AFTER	94.74	-36.22	18.61
4	AFTER	105.54	-32.36	19.18
5	AFTER	109.33	-29.47	19.59
6	AFTER	114.55	-26.60	19.92
7	AFTER	117.61	-24.38	20.21
8	AFTER	118.91	-22.82	20.39
9	AFTER	120.09	-20.85	20.54
10	AFTER	121.34	-18.84	20.65
11	AFTER	122.98	-16.98	20.72
12	AFTER	124.77	-15.97	20.79
13	AFTER	125.97	-15.77	20.73
14	AFTER	127.06	-15.82	20.83
15	AFTER	130.64	-14.98	20.78
16	AFTER	138.18	-19.34	20.68
17	AFTER	135.82	-22.91	20.49
18	AFTER	147.17	-29.80	20.51
19	AFTER	134.64	-32.67	20.61
20	AFTER	137.88	-34.36	20.51

TIME AND DATE OF REPORT: 22-02-98 14:34:13

PAGE 4

CRTS 0011188

103
T-20721

ENTIRE PAGE CONFIDENTIAL

** SECTIONALB **

UNIT NO	SECTN NO	SIDE	SEA NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			21	AFTER	159.37	-35.05	19.56
			22	AFTER	161.61	-35.19	19.19
429	91			BOTTOM OF DOOR EXT SECT			
			1	AFTER	95.09	-33.31	11.76
			2	AFTER	105.28	-38.14	12.14
			3	AFTER	111.70	-26.64	12.79
			4	AFTER	115.25	-24.50	12.97
			5	AFTER	117.95	-22.94	12.79
			6	AFTER	119.69	-22.16	12.68
			7	AFTER	120.31	-21.80	12.62
			8	AFTER	120.47	-21.46	12.60
			9	AFTER	120.88	-19.42	12.64
			10	AFTER	122.84	-17.21	12.73
			11	AFTER	125.36	-15.96	12.90
			12	AFTER	125.45	-15.40	12.93
			13	AFTER	129.37	-14.58	12.68
			14	AFTER	130.60	-17.76	12.53
			15	AFTER	131.89	-18.70	12.69
			16	AFTER	130.88	-22.02	12.76
			17	AFTER	147.73	-26.10	12.78
			18	AFTER	155.59	-30.05	17.68

TIME AND DATE OF REPORT: 22-SEP-98 14:34:15

PAGE 5

CRIS 0011188

T-80731
104

ENTIRE PAGE CONFIDENTIAL

** SECTIONAL **

UNIT NO	SCEN NO	SIDE	SEC NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			19	AFTER	158.17	-37.42	12.64
435	91			BELT LINE EXTERIOR SECT			
			1	AFTER	105.14	-29.07	38.68
			2	AFTER	111.55	-24.67	39.29
			3	AFTER	116.75	-20.59	39.42
			4	AFTER	125.33	-16.10	40.05
			5	AFTER	125.75	-16.67	40.14
			6	AFTER	126.11	-16.59	40.17
			7	AFTER	128.02	-16.39	40.18
			8	AFTER	131.34	-15.54	39.04
			9	AFTER	135.98	-14.69	39.02
			10	AFTER	138.15	-16.09	40.18
			11	AFTER	148.58	-16.85	39.84
			12	AFTER	145.34	-19.40	39.45
			13	AFTER	151.27	-22.90	39.60
			14	AFTER	154.94	-26.26	39.80
			15	AFTER	160.41	-28.45	39.81
			16	AFTER	166.23	-31.98	40.19
			17	AFTER	168.21	-32.67	40.63

437 91

HIP INTERIOR SECTION

TIME AND DATE OF REPORT: 27-SEP-95 14:34:16

PAGE 6

CRTS 0011188

ENTIRE PAGE CONFIDENTIAL

7-80731

105

** SECTIONALS **

WET NO	UCTH NO	SDA NO	NAME AND CHART SYMBOL	X	Y	INCHES Z
		1	AFTER	100.91	-28.68	25.81
		2	AFTER	102.89	-28.58	25.59
		3	AFTER	103.86	-27.79	25.66
		4	AFTER	106.88	-26.48	25.67
		5	AFTER	110.45	-25.84	25.89
		6	AFTER	116.21	-21.16	24.03
		7	AFTER	116.98	-18.73	24.04
		8	AFTER	122.84	-14.82	24.40
		9	AFTER	126.17	-13.05	24.18
		10	AFTER	129.59	-11.83	24.24
		11	AFTER	131.29	-14.13	25.11
		12	AFTER	137.38	-15.92	24.22
		13	AFTER	139.68	-17.38	24.27
		14	AFTER	144.14	-19.59	24.81
		15	AFTER	148.62	-22.87	24.26
		16	AFTER	153.16	-25.63	24.31
		17	AFTER	156.32	-26.72	24.25
		18	AFTER	157.58	-27.29	24.62

435 IN

161 38 PLS/INCH PLANE

1	AFTER	98.52	-33.46	11.95
2	AFTER	96.78	-34.22	12.97

TIME AND DATE OF REPORT: 22-SEP-96 14:34:16

PAGE 7

CRIS 0011188

106
T-80731

ENTIRE PAGE CONFIDENTIAL

** SECTIONS **

UNIT NO	SECTION NO	SIDE	REQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
	3			AFTER	96.95	-34.92	15.70
	4			AFTER	97.07	-35.42	18.13
	5			AFTER	97.40	-36.33	22.81
	6			AFTER	97.43	-36.67	23.60
	7			AFTER	97.37	-36.45	24.89
	8			AFTER	97.24	-36.06	27.83
	9			AFTER	97.87	-37.01	31.89
	10			AFTER	96.59	-36.30	33.79
	11			AFTER	95.87	-35.02	39.31
	12			AFTER	98.45	-34.42	30.86
	13			AFTER	95.34	-32.98	41.25

439 S1

SECT @ 2500 BODY LINE

1	AFTER	103.84	-30.77	12.71
2	AFTER	104.80	-31.29	14.83
3	AFTER	104.08	-31.87	17.38
4	AFTER	104.30	-32.31	19.69
5	AFTER	104.63	-33.06	24.18
6	AFTER	104.36	-32.92	25.32
7	AFTER	104.36	-33.44	31.26
8	AFTER	104.04	-33.61	36.17
9	AFTER	103.77	-33.37	38.59

TIME AND DATE OF REPORT: 22-SEP-98 14:34:14

PAGE 4

CRTS 0011188

T-80731
107

ENTIRE PAGE CONFIDENTIAL

** SECTIONS **

UNT NO	SECT NO	DATE	PER NO	NAME AND CRASH STRIKE	X	Y	INCHES Z
		10	AFTER		103.48	-33.11	39.81
439	82			SECT B ZONE BODY LINE			
		1	AFTER		103.36	-27.37	18.71
		2	AFTER		102.83	-30.27	38.52
440	81			VERT SECT. 20" FWD 1/CL			
		1	AFTER		121.97	-17.33	12.67
		2	AFTER		121.89	-17.53	15.52
		3	AFTER		121.92	-17.76	19.34
		4	AFTER		122.14	-18.05	24.34
		5	AFTER		122.21	-18.09	25.79
		6	AFTER		121.95	-17.92	27.02
		7	AFTER		122.13	-18.28	28.70
		8	AFTER		122.27	-18.38	30.97
		9	AFTER		122.27	-18.67	33.34
		10	AFTER		122.25	-18.68	34.65
		11	AFTER		122.21	-18.69	34.64
		12	AFTER		122.08	-18.93	35.43
		13	AFTER		122.01	-19.64	37.84
		14	AFTER		122.27	-19.23	40.10
		15	AFTER		122.28	-19.41	41.95

TIME AND DATE OF REPORT: 22-SEP-98 14:34:16

PAGE 9

CRIS 0011188

7-B0701
108

ENTIRE PAGE CONFIDENTIAL

** SECTIONAL **

WRT NO	SECT NO	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
		16	AFTER	122.35	-16.35	58.64
		17	AFTER	122.01	-16.52	61.80
		18	AFTER	122.57	-17.75	61.16
		19	AFTER	122.50	-17.89	62.12
		20	AFTER	122.49	-17.94	62.40
		21	AFTER	122.37	-17.94	62.66
		22	AFTER	122.34	-17.82	62.96
		23	AFTER	121.63	-16.25	64.41
440	62		VERT SECT. 28" PAD L/CL			
		1	AFTER	121.65	-15.61	17.63
		2	AFTER	121.67	-15.64	21.74
		3	AFTER	121.86	-16.64	35.65
		4	AFTER	121.82	-16.72	36.26
		5	AFTER	121.70	-16.47	37.68
		6	AFTER	121.74	-17.26	39.97
441	61		VERT SECT. 8 IMPACT C/L			
		1	AFTER	129.35	-16.51	12.72
		2	AFTER	129.20	-16.58	15.20
		3	AFTER	129.33	-16.43	19.33
		4	AFTER	129.47	-16.36	23.30

TIME AND DATE OF REPORT: 22-SEP-95 14:34:16

PAGE 10

CRIS 0011188

109
T-B0731

ENTIRE PAGE CONFIDENTIAL

** SECTIONALS **

UNIT NO	SECTN NO	SIDE	SEA NO	NAME AND CRASH STATUS	X	Y	INCHES Z
	3	AFTER			129.29	-16.33	25.88
	6	AFTER			129.36	-16.67	26.99
	7	AFTER			129.33	-16.62	31.09
	8	AFTER			129.28	-16.72	34.78
	9	AFTER			129.21	-16.86	35.49
	10	AFTER			129.21	-16.79	38.83
	11	AFTER			129.29	-16.68	36.88
	12	AFTER			129.14	-16.87	38.83
	13	AFTER			129.32	-16.61	40.47
	14	AFTER			129.42	-16.59	40.89
	15	AFTER			129.39	-16.62	41.38
	16	AFTER			129.44	-16.97	42.16
	17	AFTER			129.33	-16.52	59.61
	18	AFTER			129.43	-16.76	61.80
	19	AFTER			129.67	-15.78	61.48
	20	AFTER			129.90	-14.79	62.82
	21	AFTER			129.29	-14.37	62.46
	22	AFTER			129.25	-14.46	63.95
	25	AFTER			129.28	-13.94	63.67

441 22

VERT SECT. 3 IMPACT C/L

1	AFTER	130.43	-13.14	17.27
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TIME AND DATE OF REPORT: 22-SEP-98 14:34:16

PAGE 11

CRITS 0011188

ENTIRE PAGE CONFIDENTIAL
1-80731
110