

V993

PAGE NO. 1
SRDL TEST #C-5953
TEST DATE May 3, 1984

TEST REPORT

TYPE OF IMPACT: NHTSA CRUSHABLE MOVING BARRIER TO PARKED
LOAD CELL BARRIER - 0° FRONT

VEHICLE DESCRIPTION

STRUCK VEHICLE:

SRDL'S light weight moving barrier with load cells and a flat face fixture mounted to the front. The flat face was designed to contact the bumper and upper front sheetmetal of a 1980 GM X-body. Four load cells were mounted to the back of the flat face, two on each end, positioned top and bottom. The flat face fixture was divided into two sections, each being 356 mm in height and 1780 mm in length. These sections were mounted laterally across the front of the barrier with a 6.4 mm vertical separation between them. This allowed for separate readings of the upper and lower forces applied to the barrier. From the ground to the bottom of the first load cell section was 280 mm. See Figures 55-56.

STRIKING VEHICLE:

NHTSA crushable moving barrier with developed energy absorbing face. The absorbing face is made of Hexcel and was developed to give the same characteristics as the crush of a 1980 GM X-body. Fisher Body modified the face by cutting sections out to allow for a closer simulation of the load pattern, see Page 2.

TEST CONDITIONS

Striking velocity at impact 41.8 km/h.

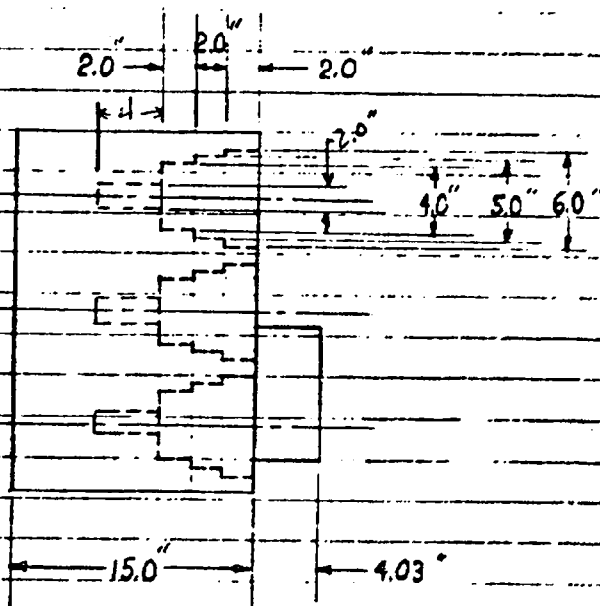
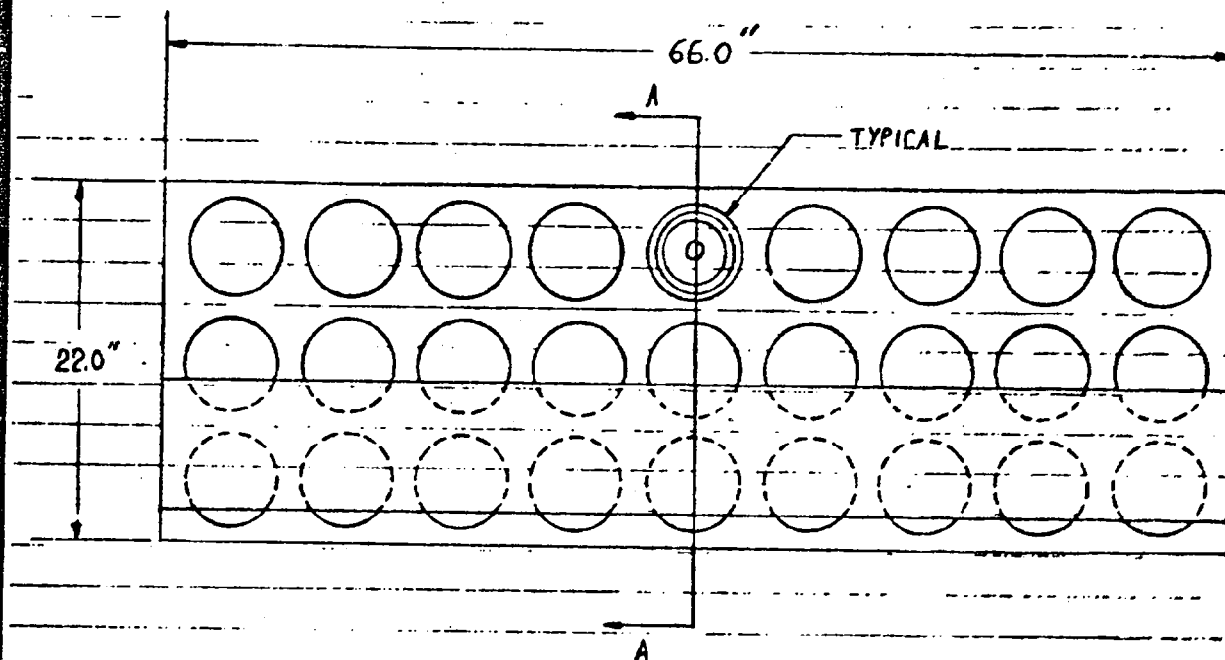
STRUCK VEHICLE MASS	FRONT	<u>1010</u> kg	REAR	<u>350</u> kg	TOTAL	<u>1360</u> kg
STRIKING VEHICLE MASS	FRONT	<u>888</u> kg	REAR	<u>458</u> kg	TOTAL	<u>1346</u> kg

RECORDED DATA

<u>STRUCK VEHICLE</u>	<u>STRIKING VEHICLE</u>	<u>PHOTOGRAPHIC COVERAGE</u>
FRONT LONGITUDINAL ACCELERATIONS	FRONT LONGITUDINAL ACCELERATIONS	OVERHEAD
MID LONGITUDINAL ACCELERATIONS	MID LONGITUDINAL ACCELERATIONS	UNDERBODY
VEHICLE KINEMATICS ACCELERATIONS	VEHICLE KINEMATICS ACCELERATIONS	DRIVER SIDE CLOSEUP
UPPER BARRIER TRIAX LOADS		PASSENGER SIDE CLOSEUP
LOWER BARRIER TRIAX LOADS		

H

HEXCELL FACE MODIFICATION DESCRIPTION - FACE A



SECTION A-A

* MEASUREMENT IN INCHES

INSTRUMENTATION AND FILM ANALYSIS DATA INDEX

FIGURE
NUMBER

STRUCK VEHICLE:

1-3 BARRIER FRONT LONGITUDINAL ACCELERATION
4 COMPUTED AVERAGE BARRIER FRONT LONGITUDINAL VELOCITY
5 COMPUTED AVERAGE BARRIER FRONT LONGITUDINAL DISPLACEMENT

6-8 BARRIER MID LONGITUDINAL ACCELERATION
9 COMPUTED AVERAGE BARRIER MID LONGITUDINAL VELOCITY
10 COMPUTED AVERAGE BARRIER MID LONGITUDINAL DISPLACEMENT

11-16 LOWER BARRIER TRIAXIAL LOADS
17-22 UPPER BARRIER TRIAXIAL LOADS

23-31 YAW FIXTURE KINEMATICS ACCELERATIONS

STRIKING VEHICLE:

32-34 BARRIER FRONT LONGITUDINAL ACCELERATION
35 COMPUTED AVERAGE BARRIER FRONT LONGITUDINAL VELOCITY
36 COMPUTED AVERAGE BARRIER FRONT LONGITUDINAL DISPLACEMENT

37-39 BARRIER MID LONGITUDINAL ACCELERATION
40 COMPUTED AVERAGE BARRIER MID LONGITUDINAL VELOCITY
41 COMPUTED AVERAGE BARRIER MID LONGITUDINAL DISPLACEMENT

42-50 YAW FIXTURE KINEMATICS ACCELERATIONS

(FILM ANALYSIS)

51 NHTSA BARRIER RELATIVE TO LOAD CELL BARRIER - DRIVER SIDE
52 NHTSA BARRIER RELATIVE TO LOAD CELL BARRIER - PASSENGER SIDE

REPORT NO. PG _____
SRDL TEST NO. C-5953

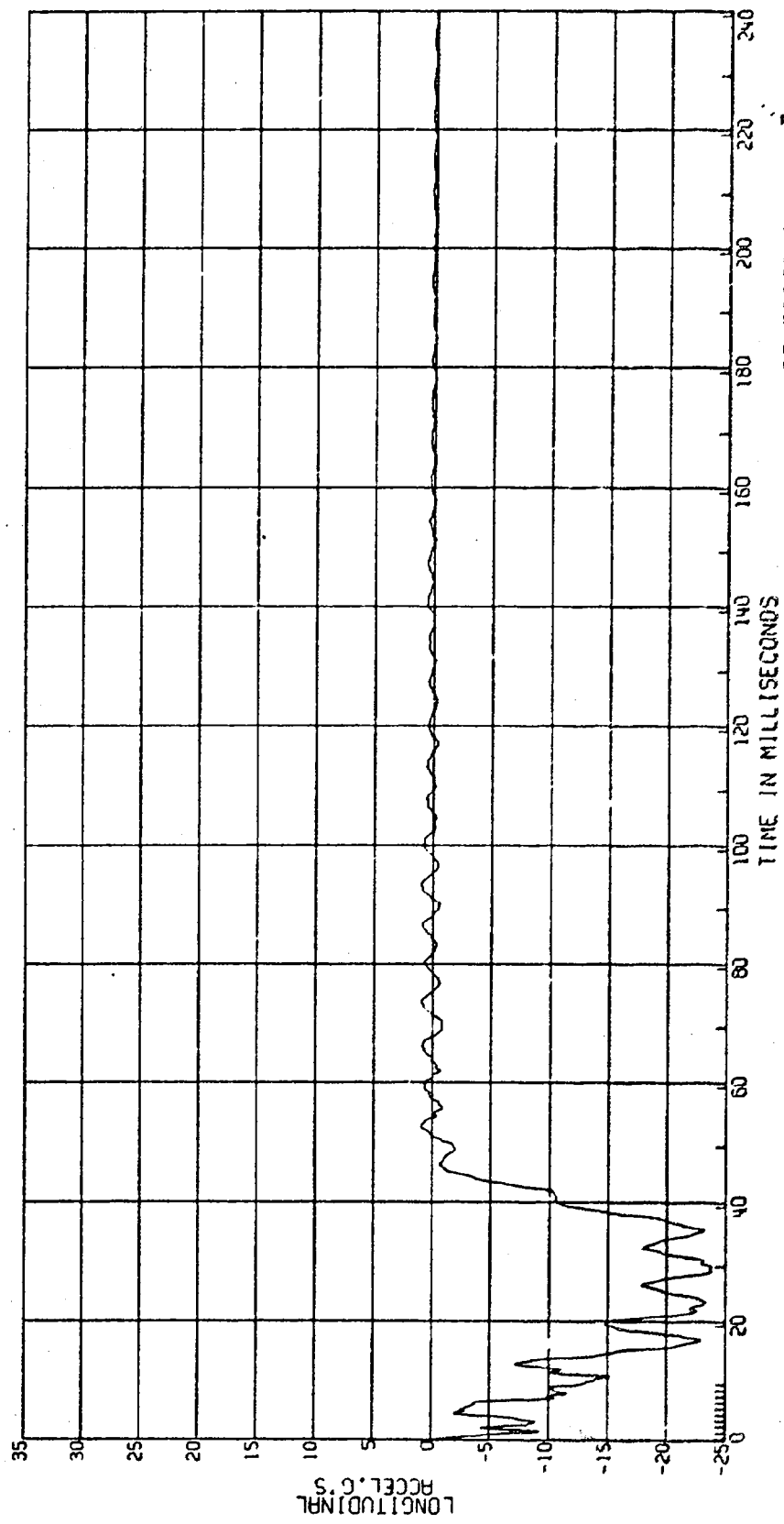
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C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE

DR-SIDE STRUCK BARRIER FRONT ACCEL.

TEST DATE: 05-03-84



REF: 59538 FIG. 1

C5953B BARRIER TO BARRIER

3865-448

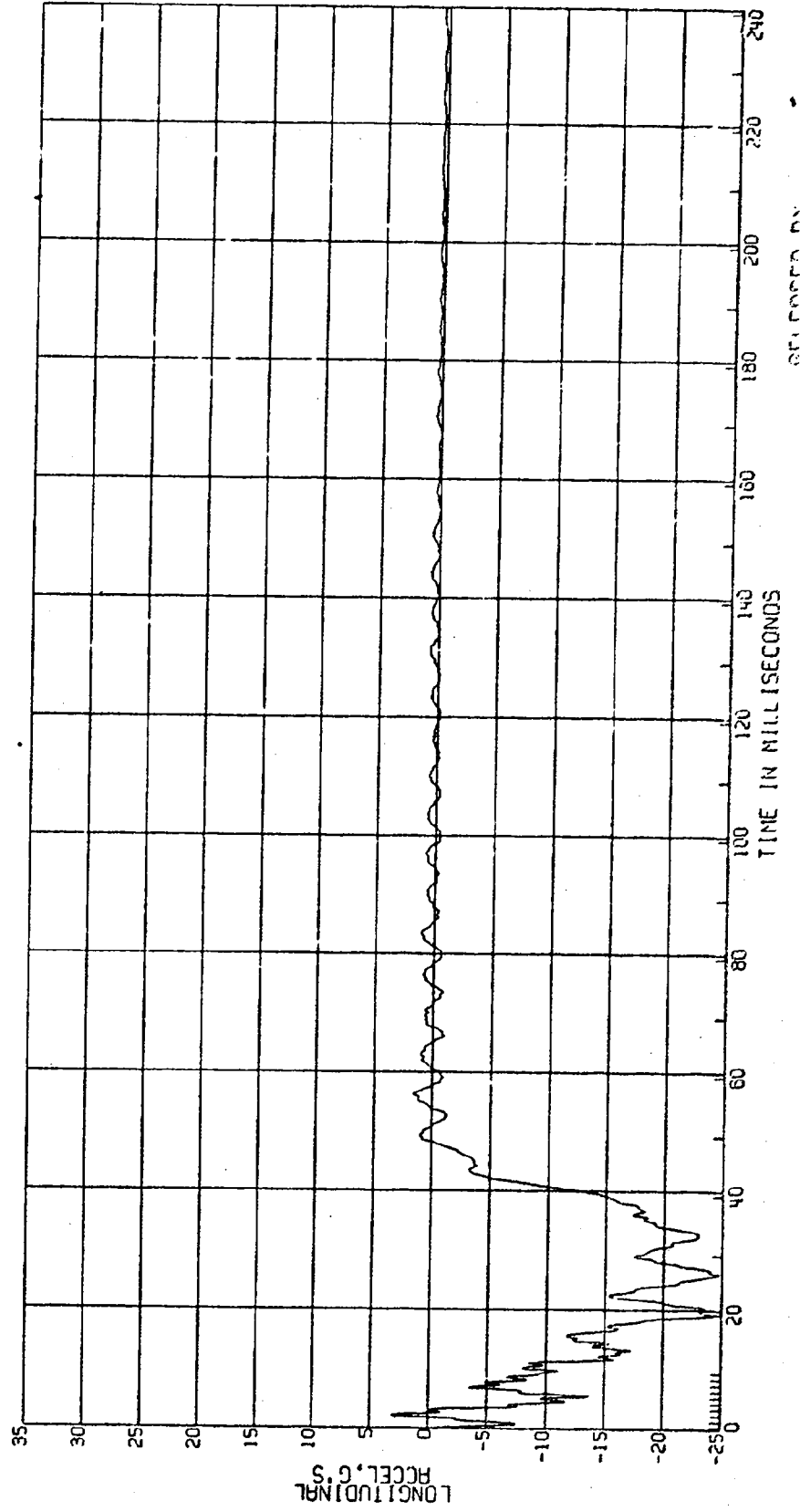
FISHER BODY FACE A

A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 2

PASS-SIDE STRUCK BARRIER FRONT ACCEL.

TEST DATE: 05-03-84



CS9538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 3

3865-449

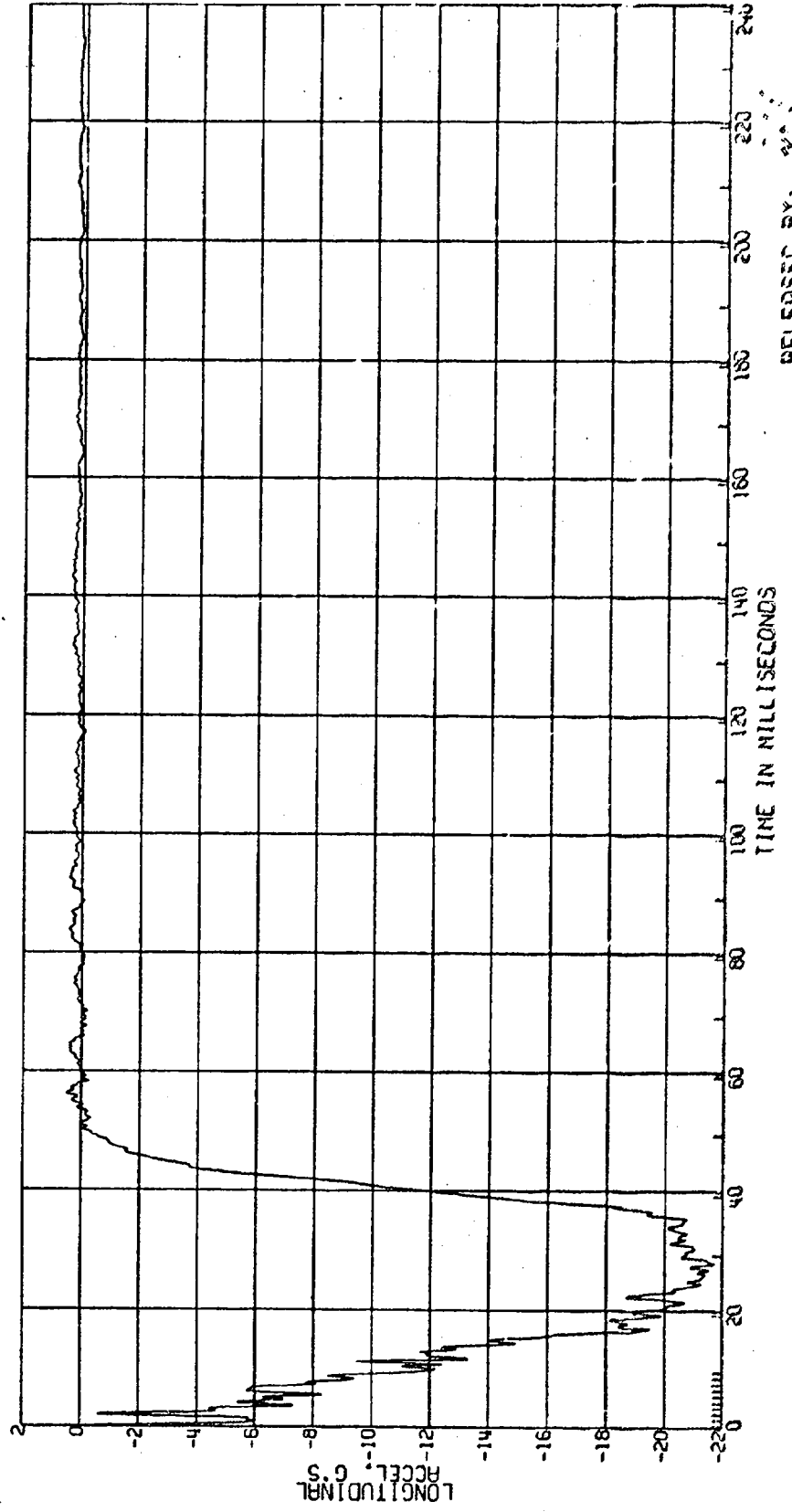
FISHER BODY FACE A

A-D DATA SAE CLASS 60

AVERAGED DR & PASS SIDES

TEST DATE: 05-03-84

AVERAGED STRUCK BARR FRT ACCEL



C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 4

3865-448

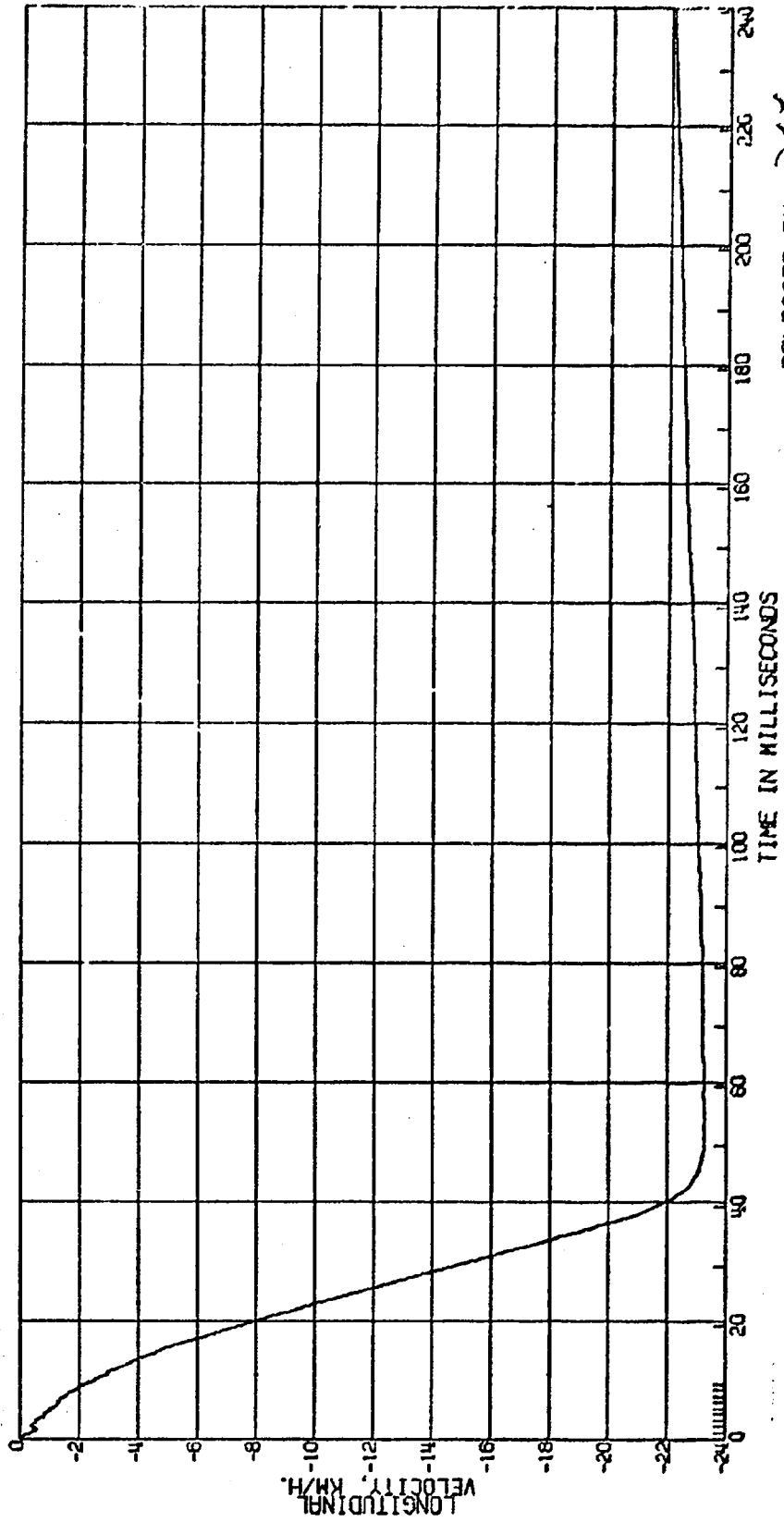
FISHER BODY FACE A

R-D DATA SAE CLASS 180

COMPUTED STRUCK BARR FRT VEL

TEST DATE: 05-03-84

(1ST INTEGRAL AVERAGED ACCELERATION)



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C59538 BARRIER TO BARRIER

3865-448

FISHER BODY FACE A

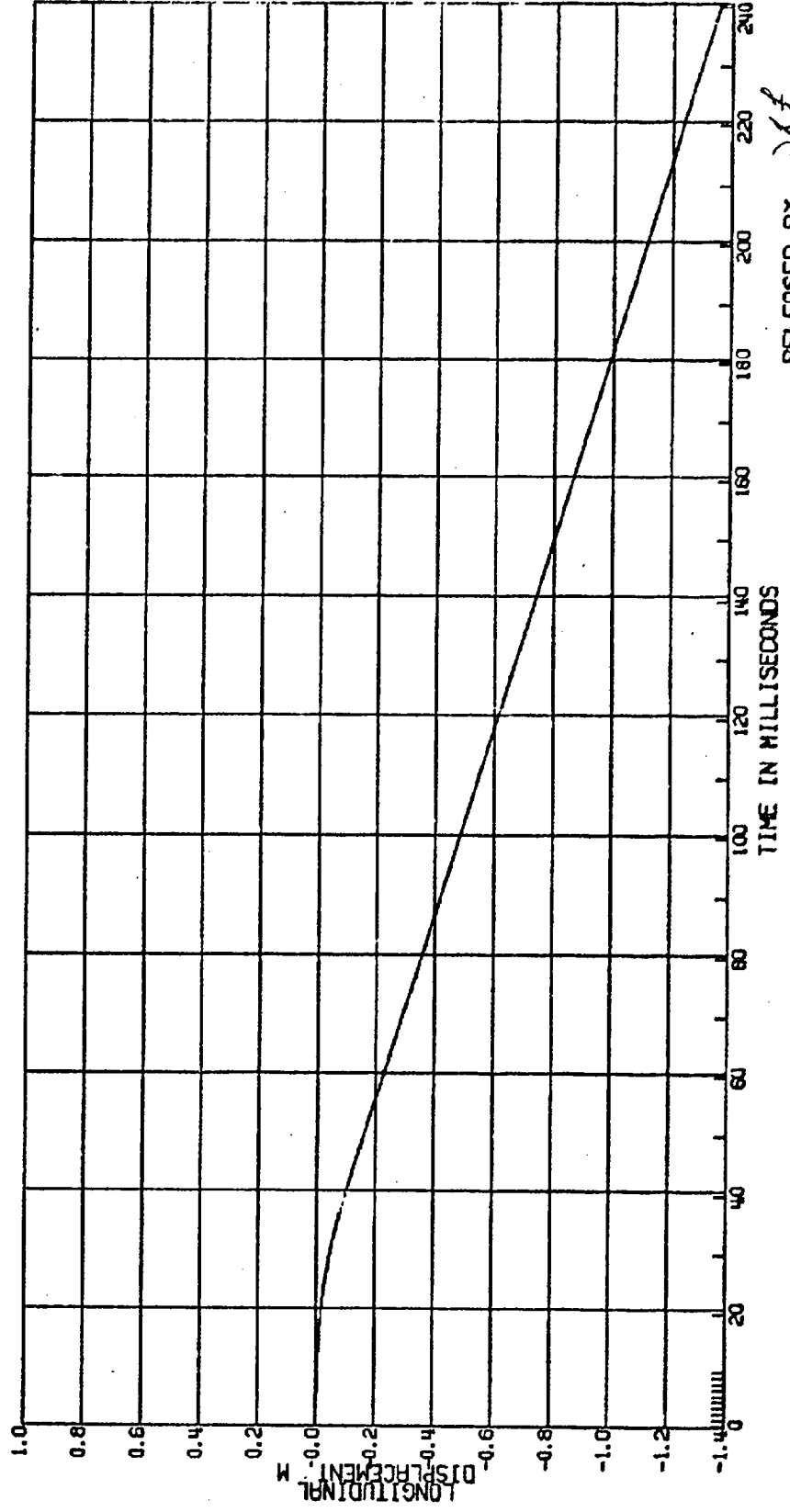
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 5

COMPUTED STRUCK BARR FRT DISP

(2ND INTEGRAL AVERAGED ACCELERATION)

TEST DATE: 05-03-84



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C5953B BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 4

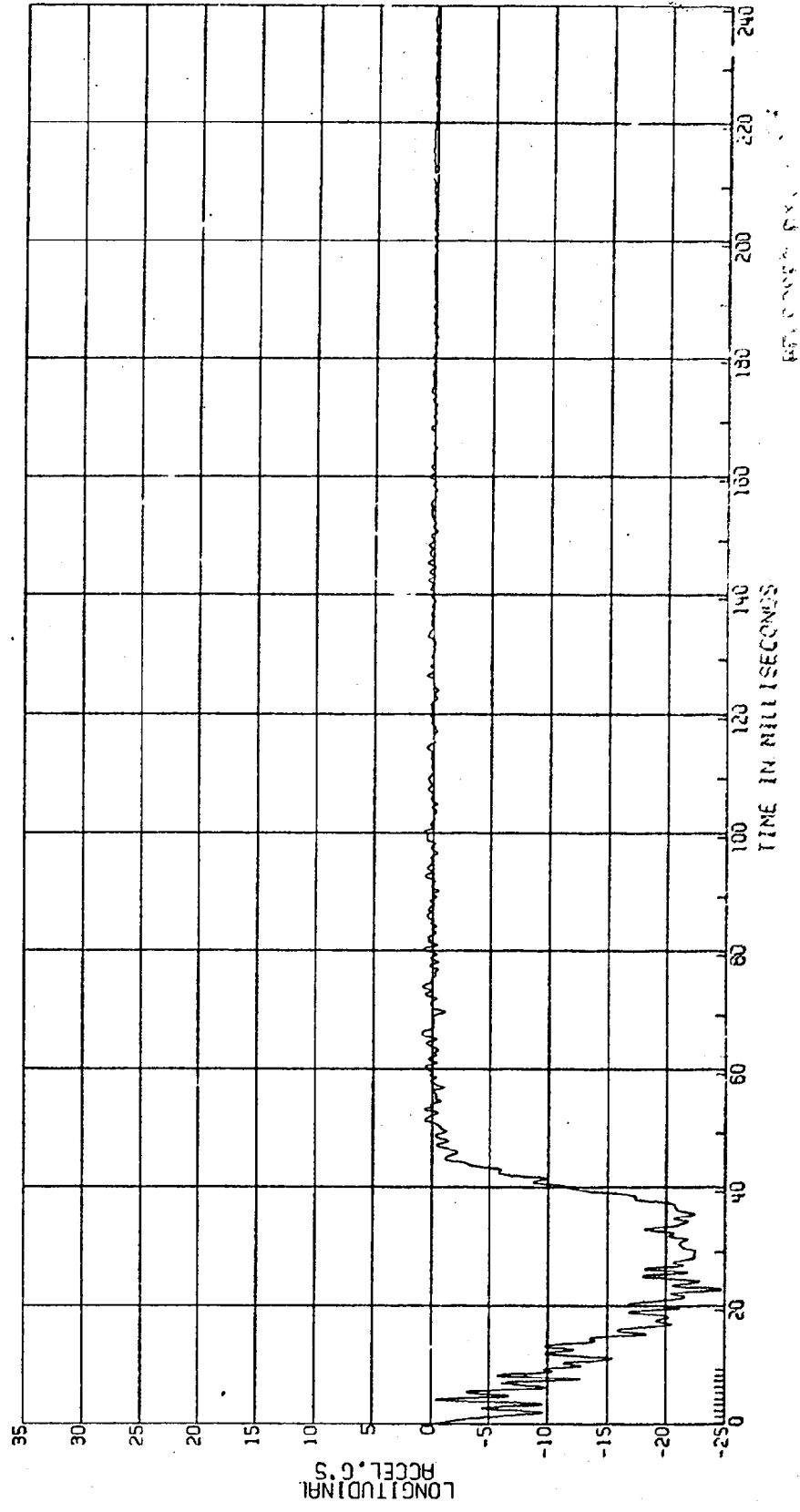
3865-448

FISHER BODY FACE A

DR-SIDE STRUCK BARRIER MID ACCEL. CM50SI

TEST DATE:05-03-84

A-D DATA SAE CLASS 60



C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 7

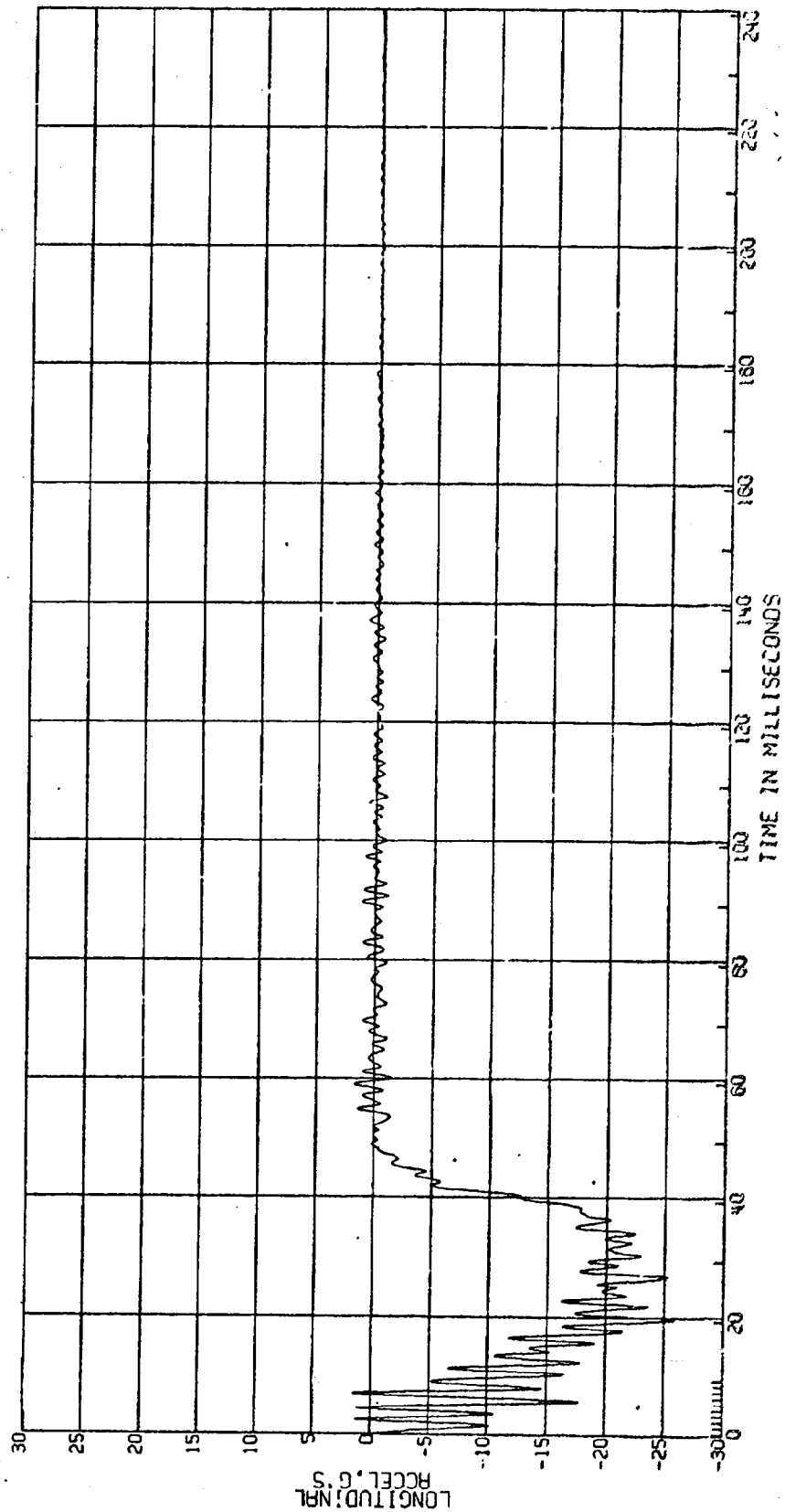
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FISHER BODY FACE A

PASS-SIDE STRUCK BARRIER MID ACCEL.

TEST DATE: 05-03-84

A-D DATA SAE CLASS 60



REFUSED BY: 117

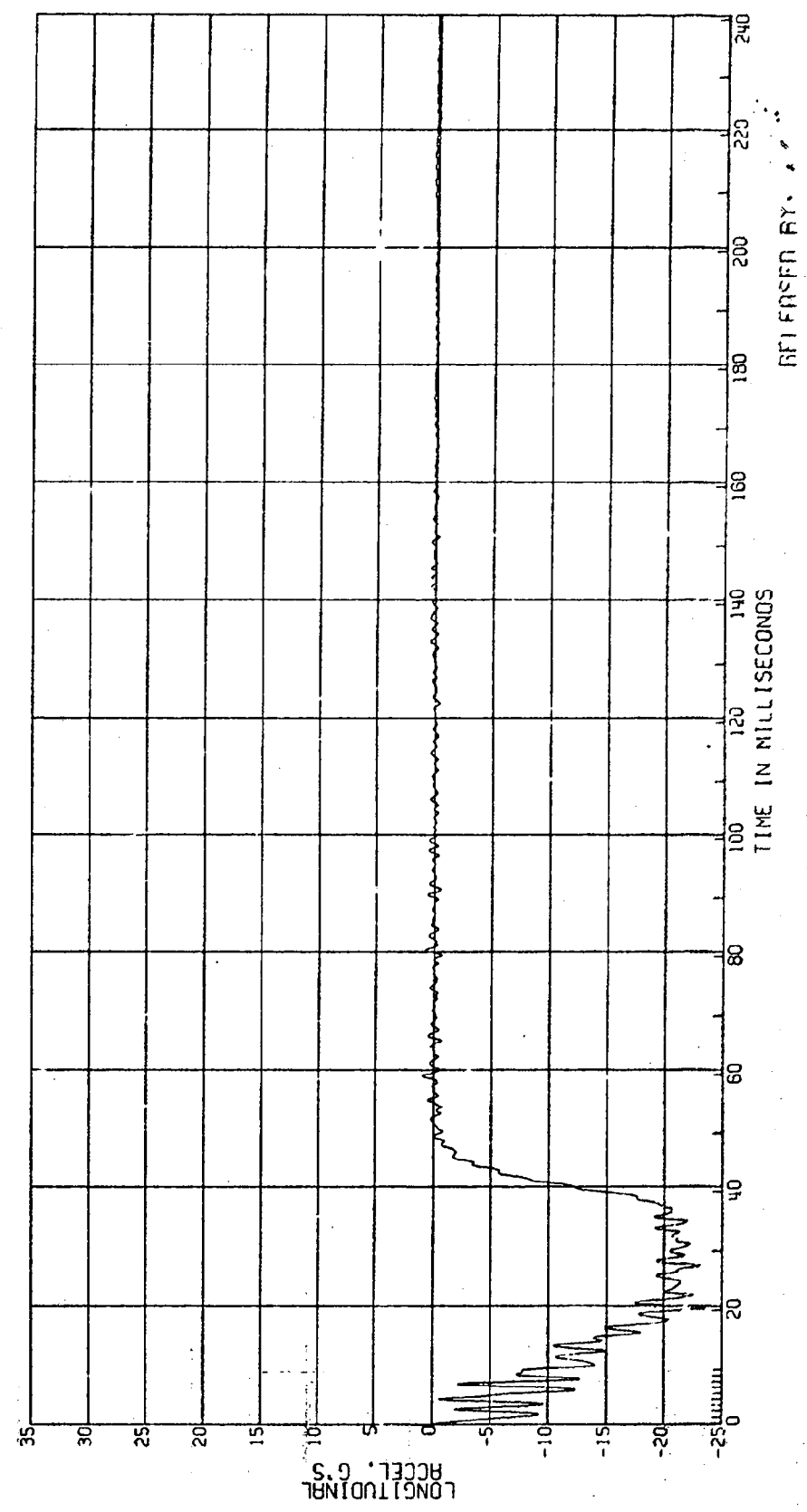
C5953B BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 8

AVERAGED DR & PASS SIDES

TEST DATE: 05-03-84

AVERAGED STRUCK BARR MID ACCEL



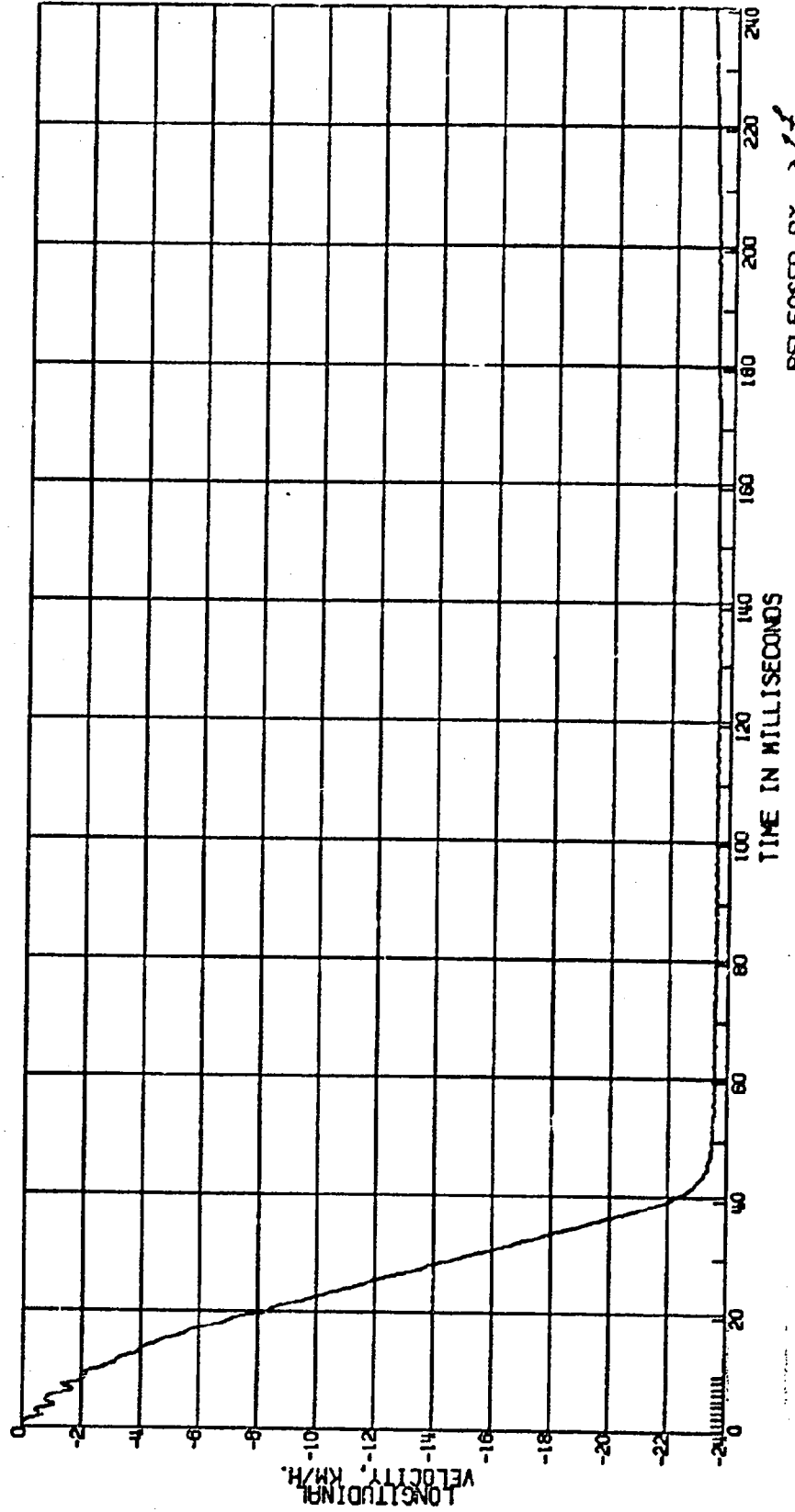
C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 9

COMPUTED STRUCK BARR MID VEL

TEST DATE: 05-03-84

(1ST INTEGRAL AVERAGED ACCELERATION)



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C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8KM/H FIGURE 10

3865-448

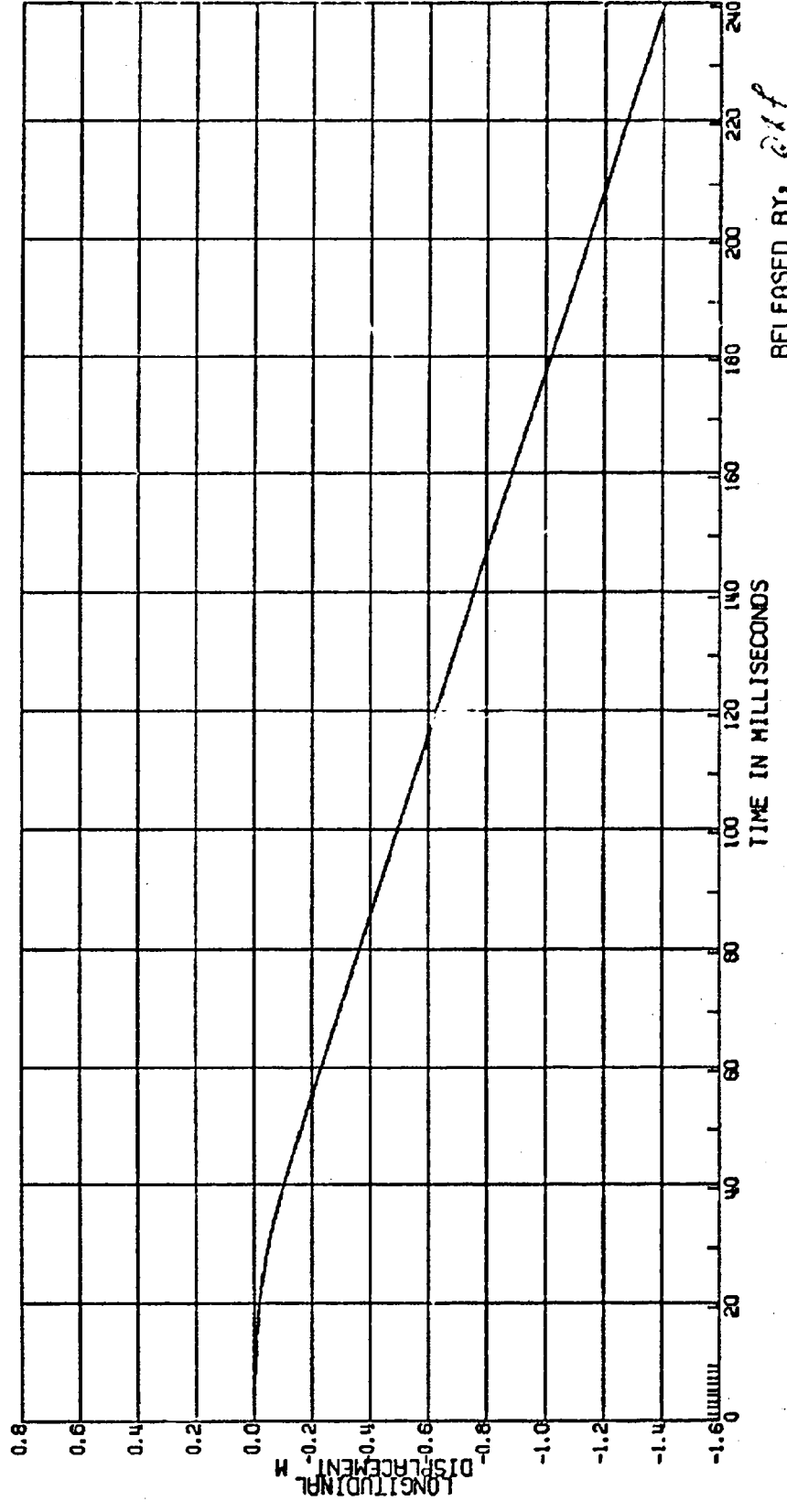
FISHER BODY FACE A

COMPUTED STRUCK BARR MID DISP

TEST DATE: 05-03-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL AVERAGED ACCELERATION)



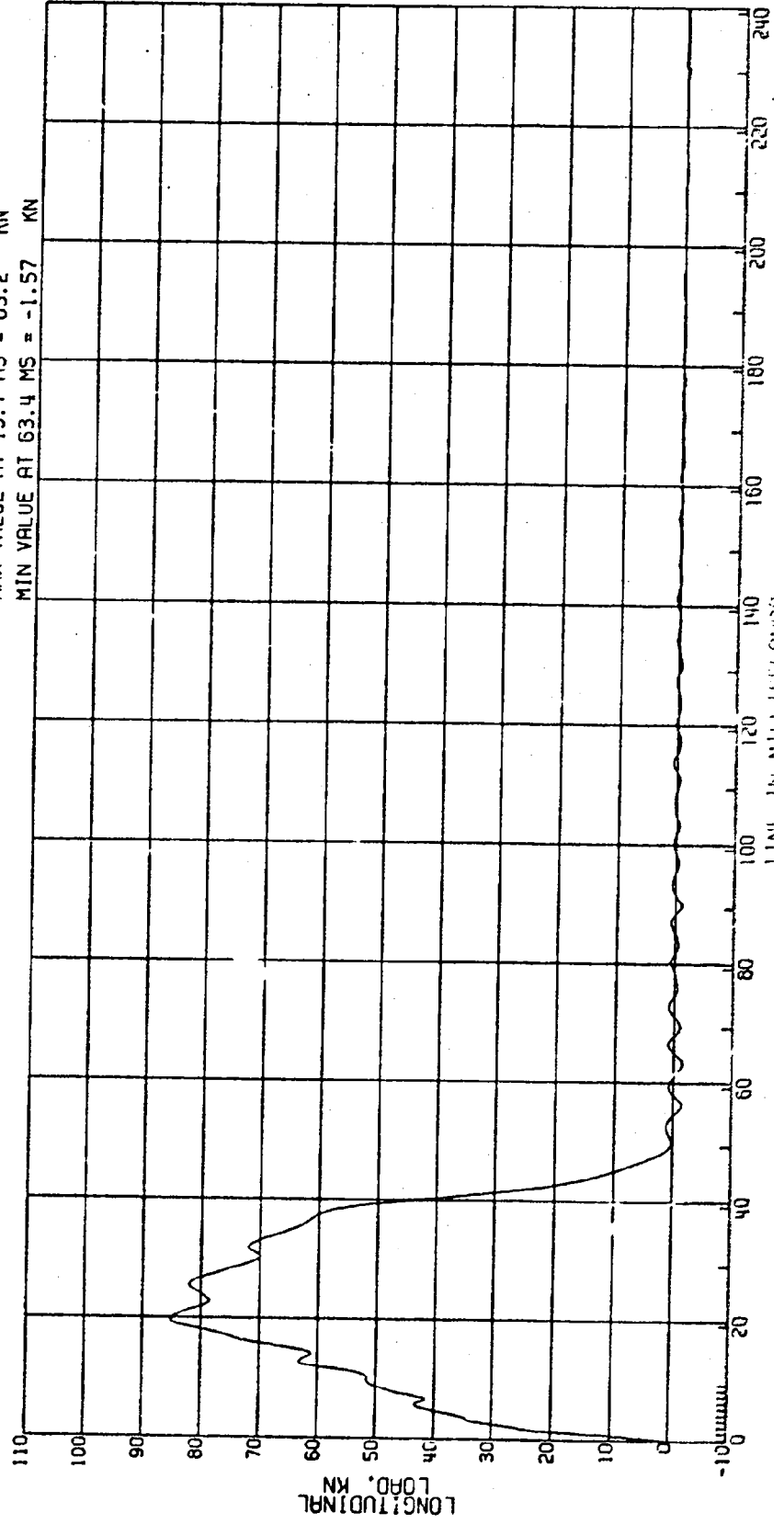
C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE

DR-SIDE STRUCK BARRIER LOWER LOAD

TEST DATE:05-03-84

MAX VALUE AT 19.7 MS = 85.2 KN
MIN VALUE AT 63.4 MS = -1.57 KN



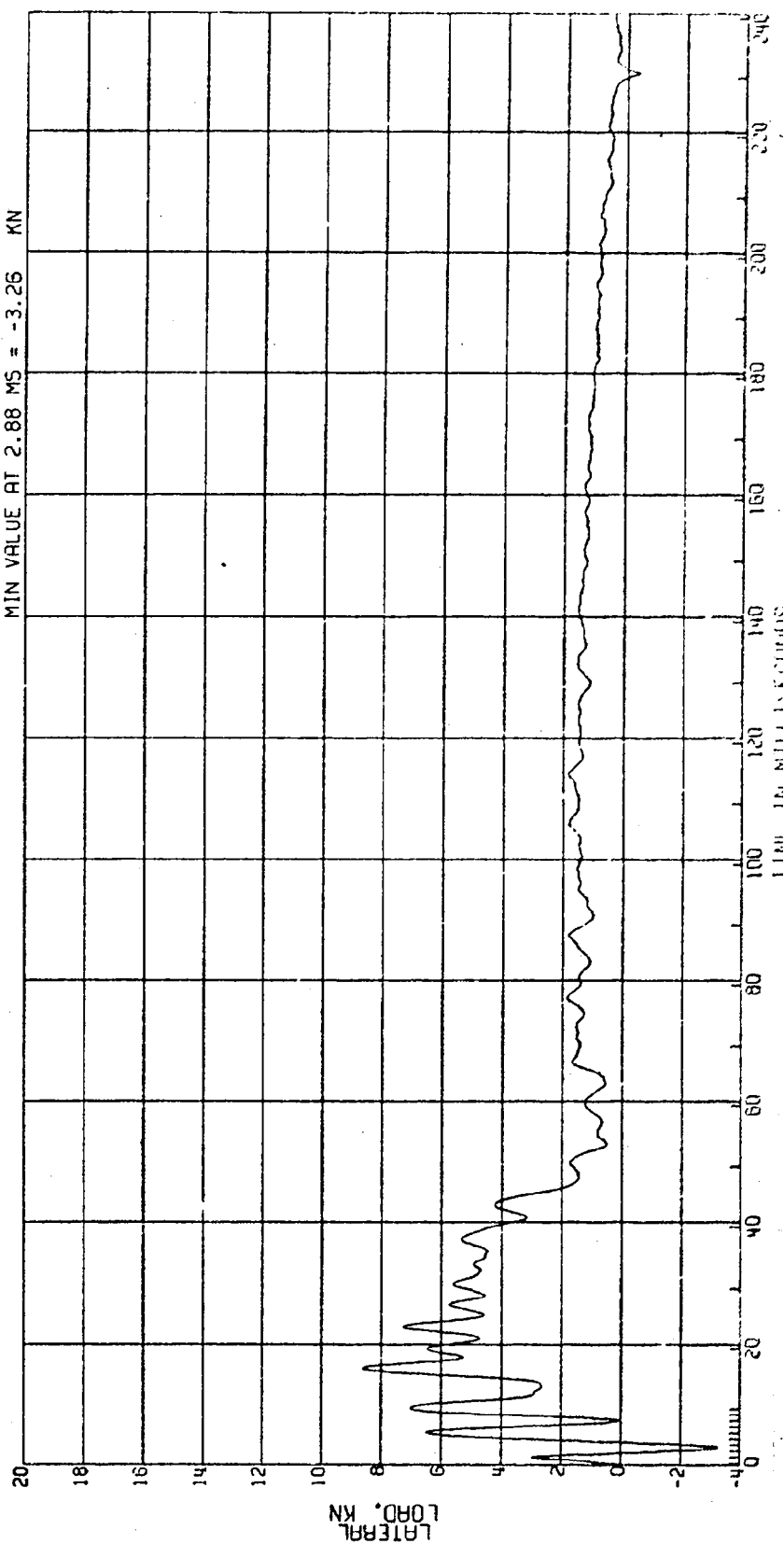
C5953B BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 12

DR-SIDE STRUCK BARRIER LOWER LOAD

TEST DATE:05-03-84

MAX VALUE AT 16.1 MS = 8.61 KN
MIN VALUE AT 2.88 MS = -3.26 KN



C5953B BARRIER TO BARRIER

3865-448

FISHER BODY FACE A

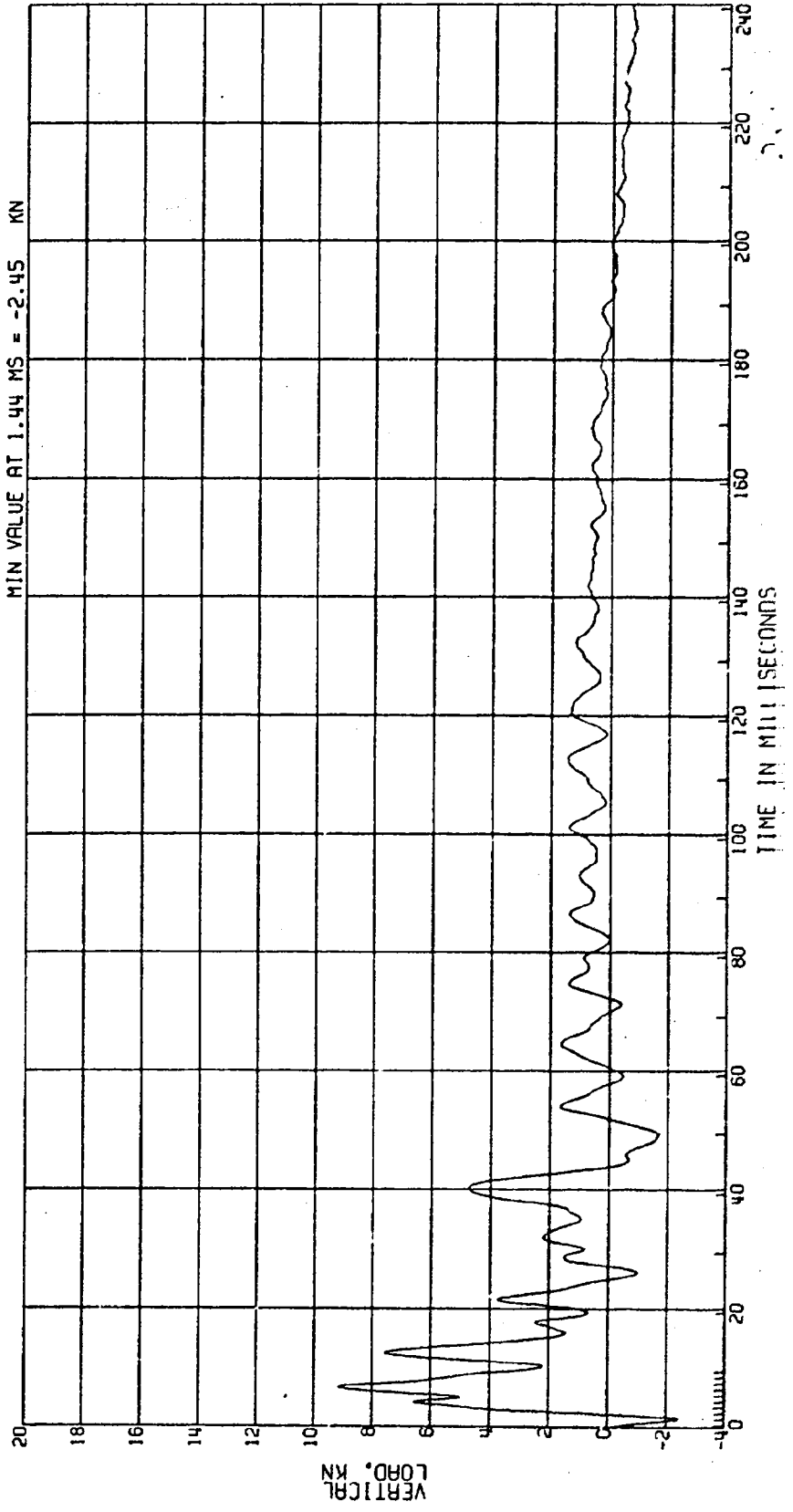
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8 KM/H FIGURE 13

DR--SIDE STRUCK BARRIER LOWER LOAD

TEST DATE: 05-03-84

MAX VALUE AT 6.63 MS = 9.20 KN
MIN VALUE AT 1.44 MS = -2.45 KN

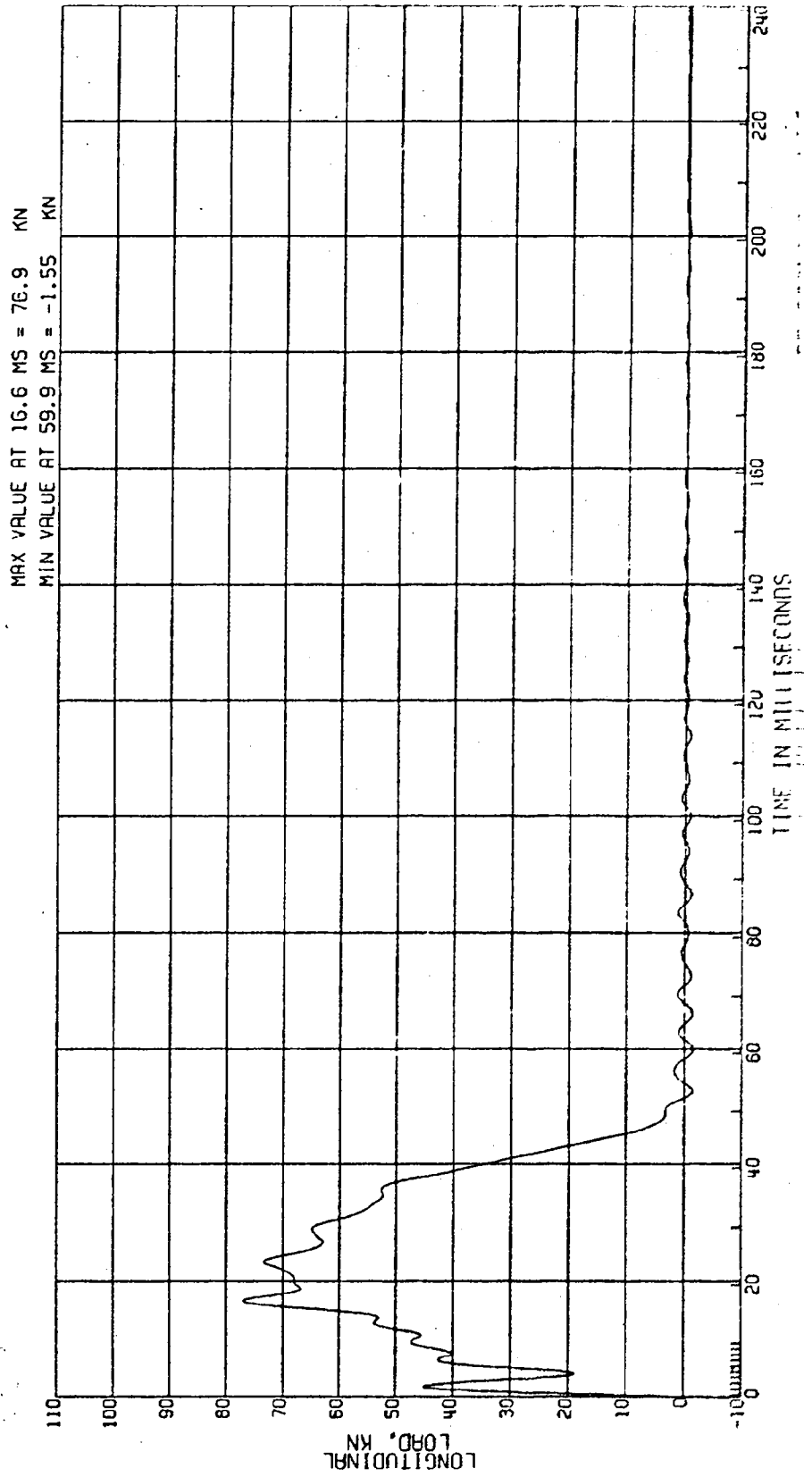


C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 14

PASS-SIDE STRUCK BARRIER LOWER LOAD

TEST DATE: 05-03-84



C59538 BARRIER TO BARRIER

3865-448

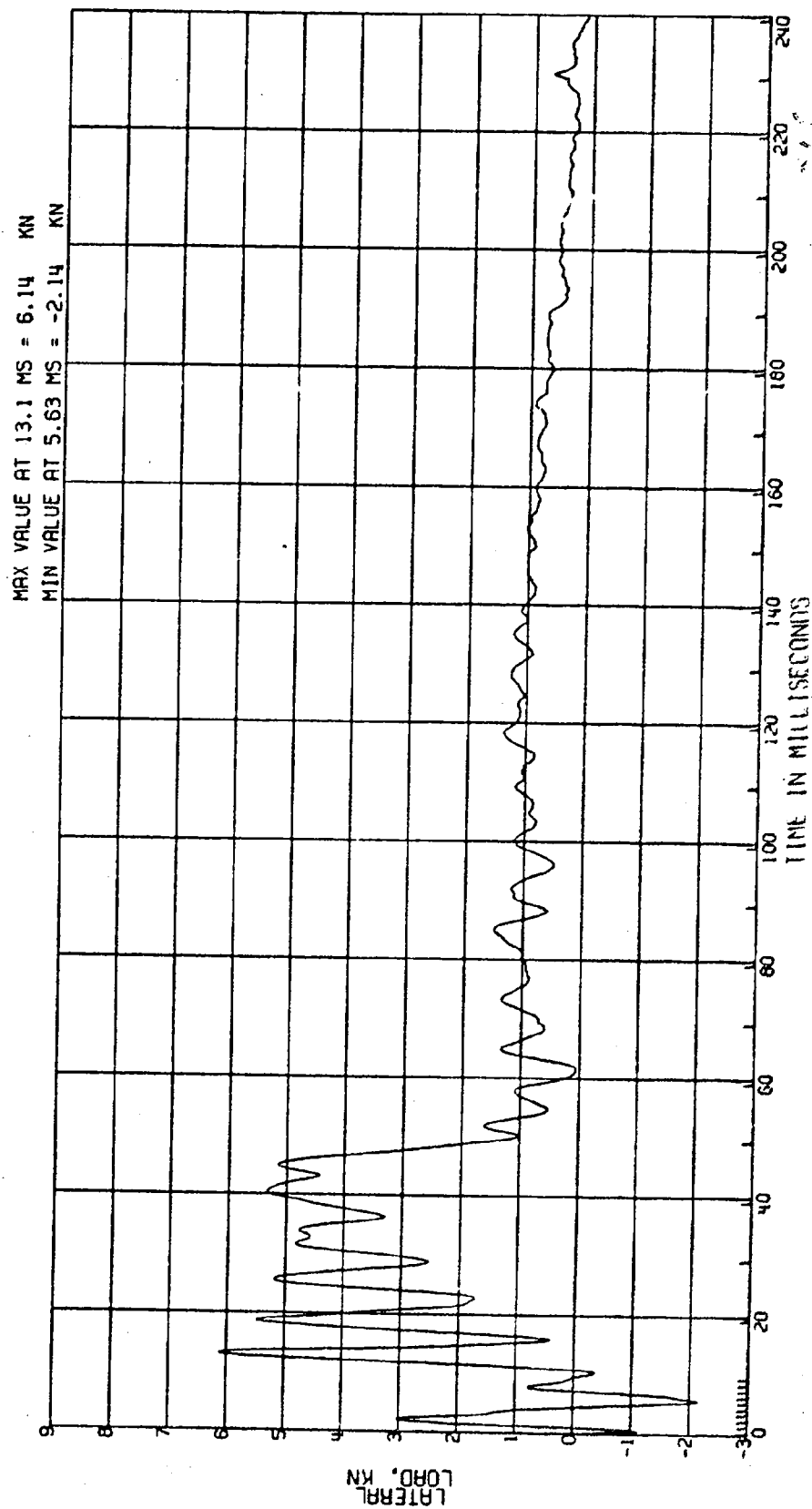
FISHER BODY FACE A

A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8 KM/H FIGURE 15

PASS-SIDE STRUCK BARRIER LOWER LOAD

TEST DATE: 05-03-84



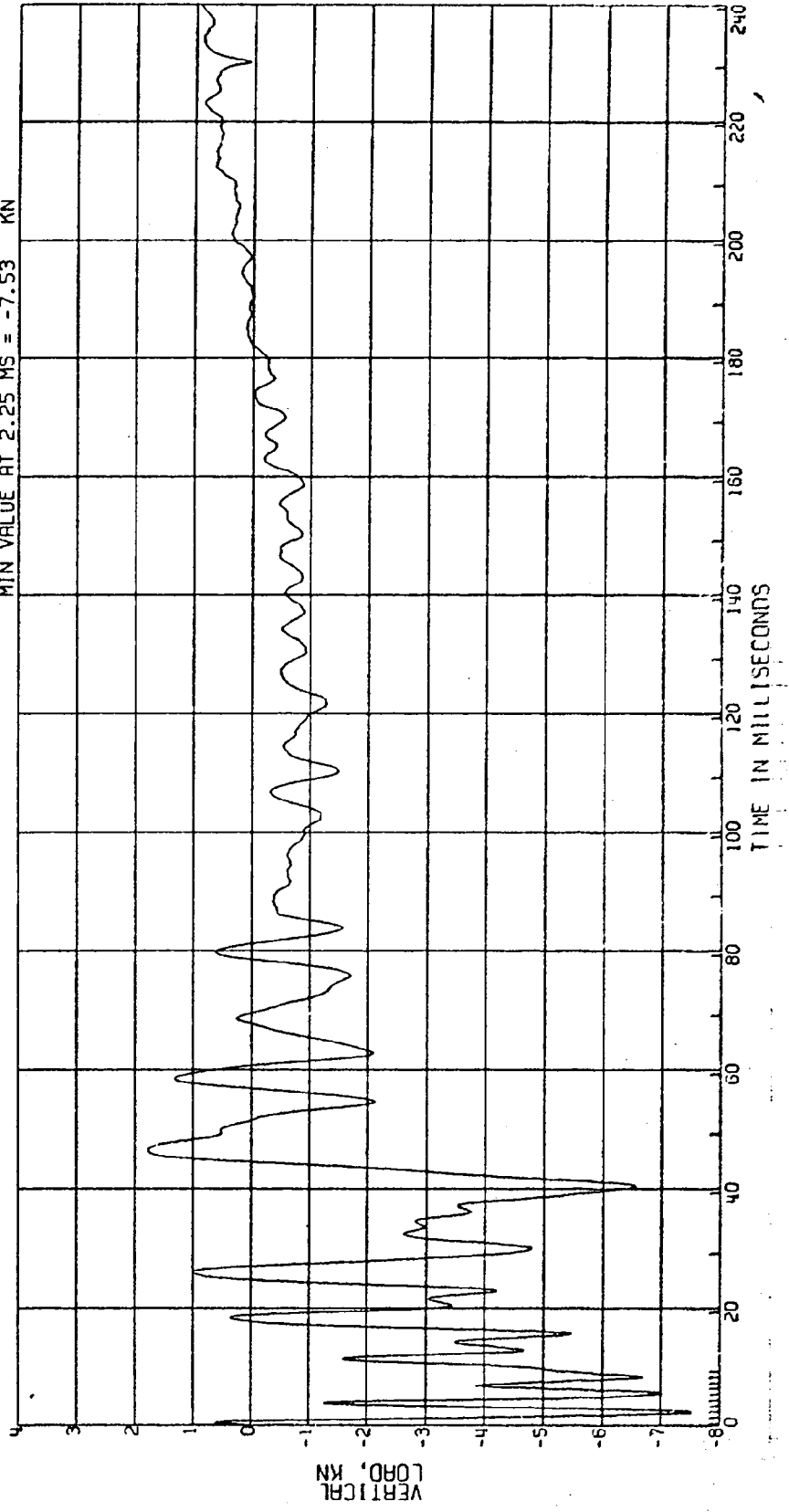
CS9538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 16

PASS-SIDE STRUCK BARRIER LOWER LOAD

TEST DATE:05-03-84

MAX VALUE AT 46.6 MS = 1.77 KN
MIN VALUE AT 2.25 MS = -7.53 KN



C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8 KM/H FIGURE 17

3865-448

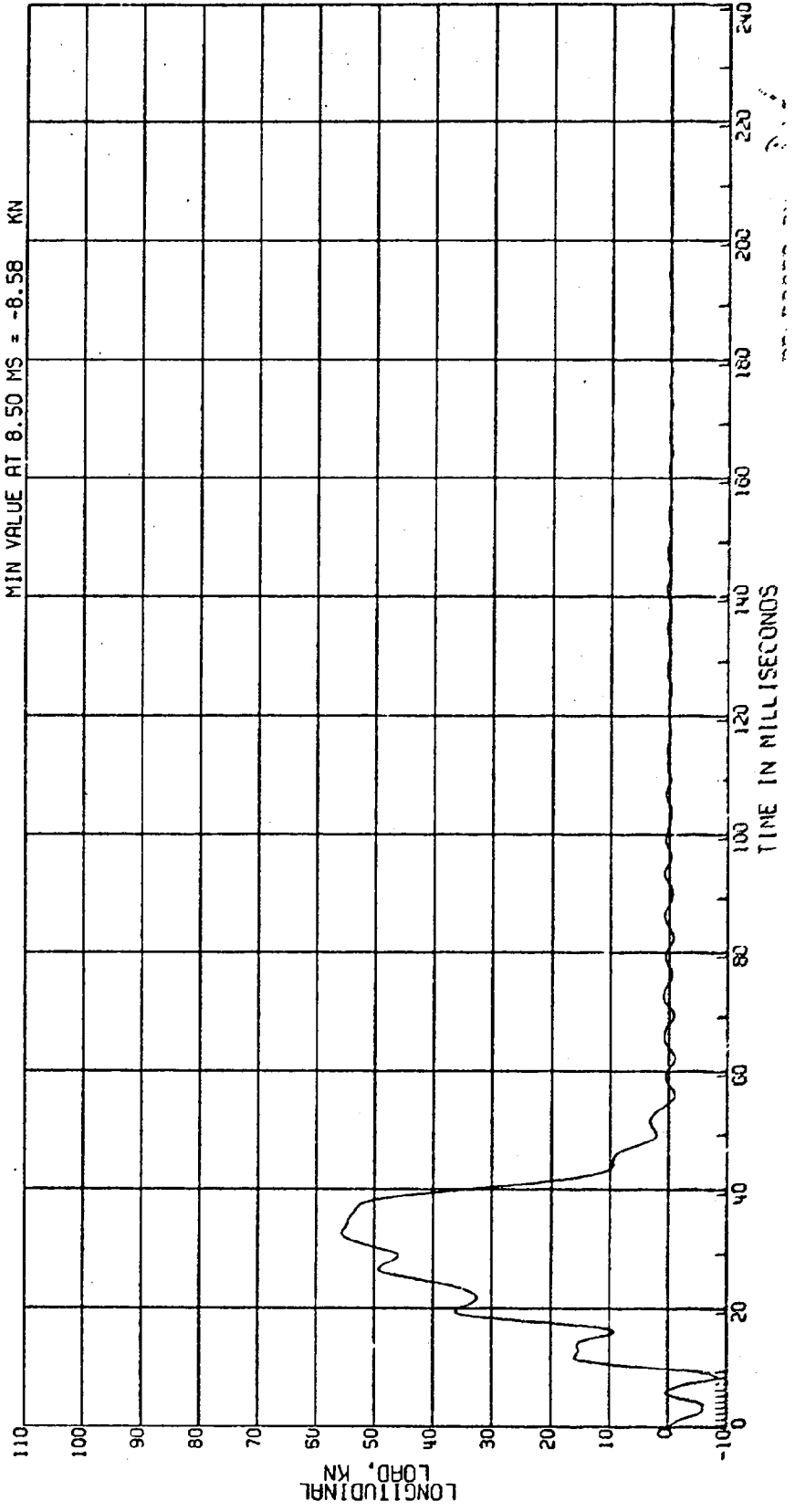
FISHER BODY FACE A

DR-SIDE STRUCK BARRIER UPPER LOAD

TEST DATE: 05-03-84

A-D DATA SAE CLASS 60

MAX VALUE AT 32.8 MS = 55.6 KN
MIN VALUE AT 8.50 MS = -8.58 KN



C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8KM/H FIGURE 18

3865-448

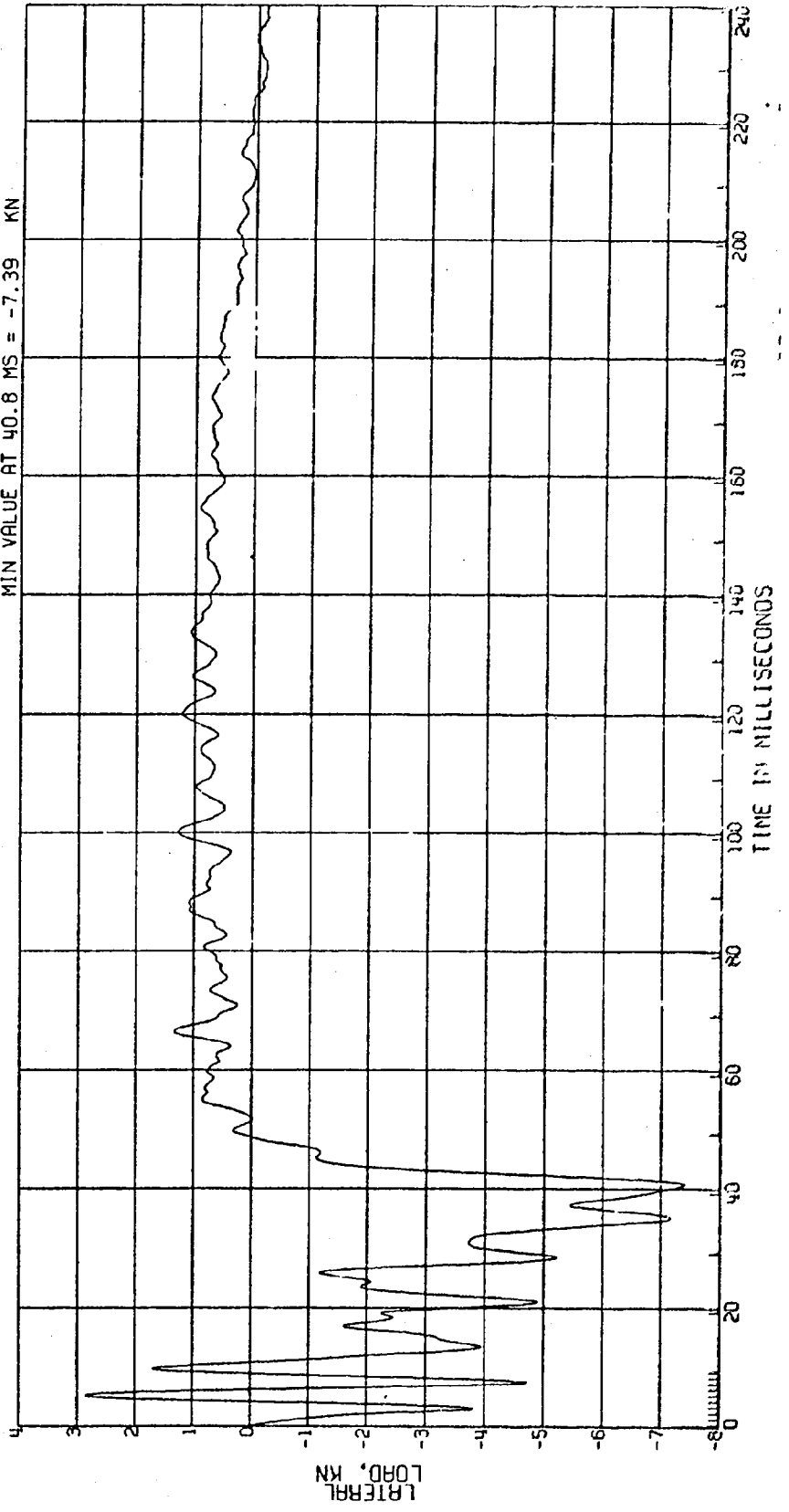
FISHER BODY FACE A

DR-SIDE STRUCK BARRIER UPPER LOAD

TEST DATE: 05-03-84

A-D DATA SAE CLASS 60

MAX VALUE AT 5.19 MS = 2.85 KN
MIN VALUE AT 40.8 MS = -7.39 KN



C5953B BARRIER TO BARRIER

3865-448

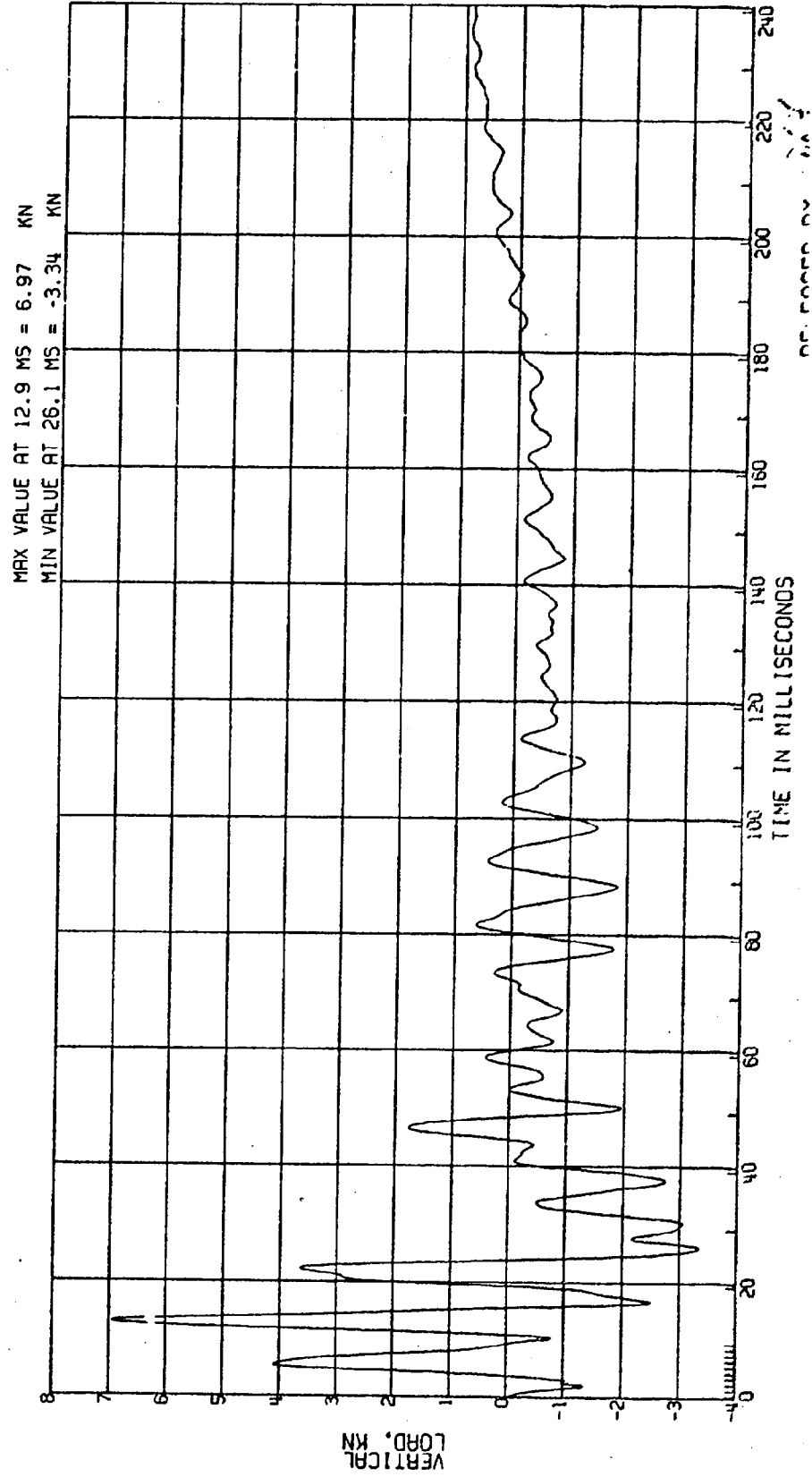
FISHER BODY FACE A

A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 19

DR-SIDE STRUCK BARRIER UPPER LOAD

TEST DATE: 05-03-84



C59538 BARRIER TO BARRIER

3865-448

FISHER BODY FACE A

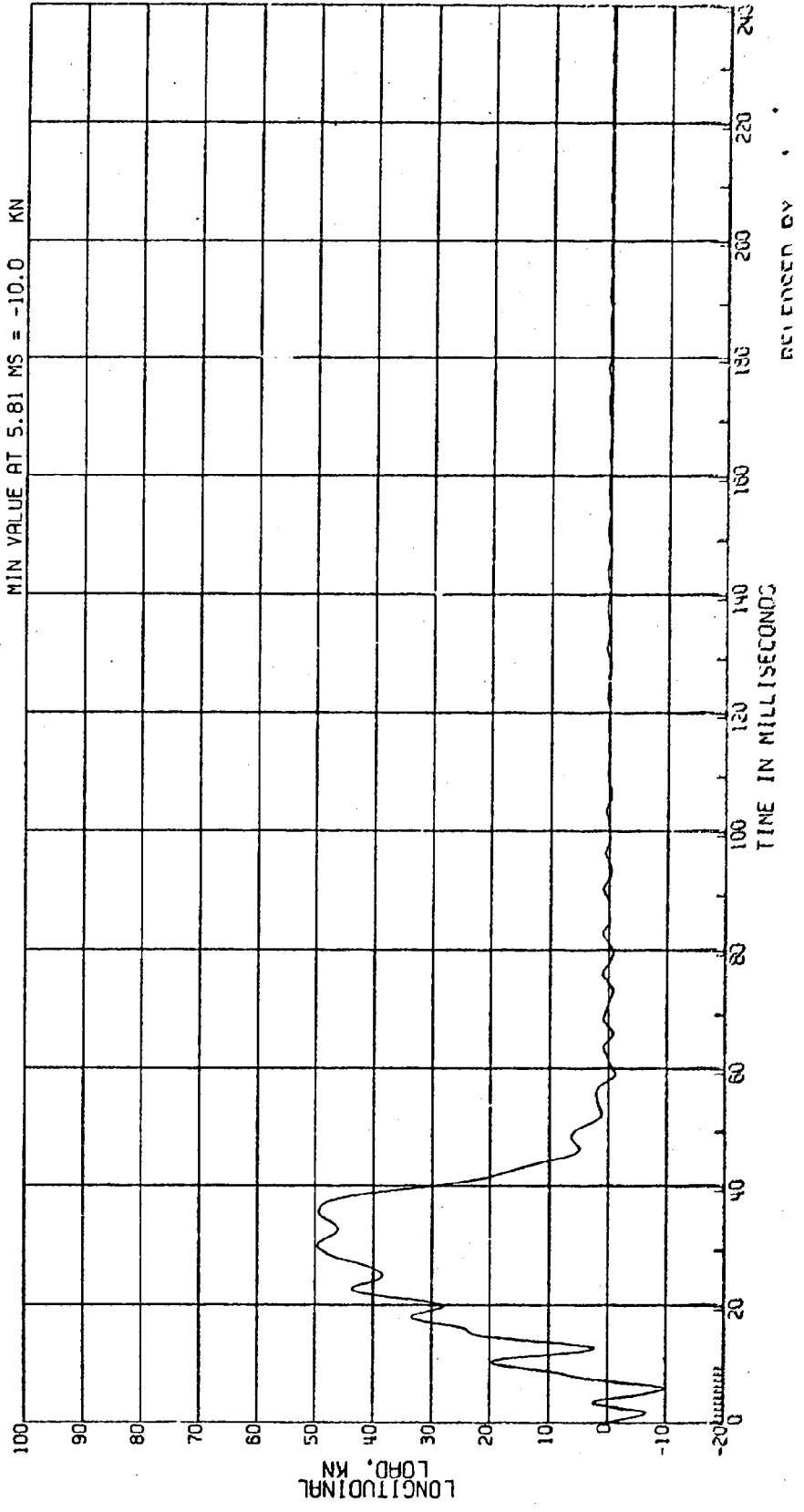
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 2.3

PASS-SIDE STRUCK BARRIER UPPER LOAD

TEST DATE: 05-03-84

MAX VALUE AT 30.2 MS = 49.6 KN
MIN VALUE AT 5.81 MS = -10.0 KN



C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 21

3865-448

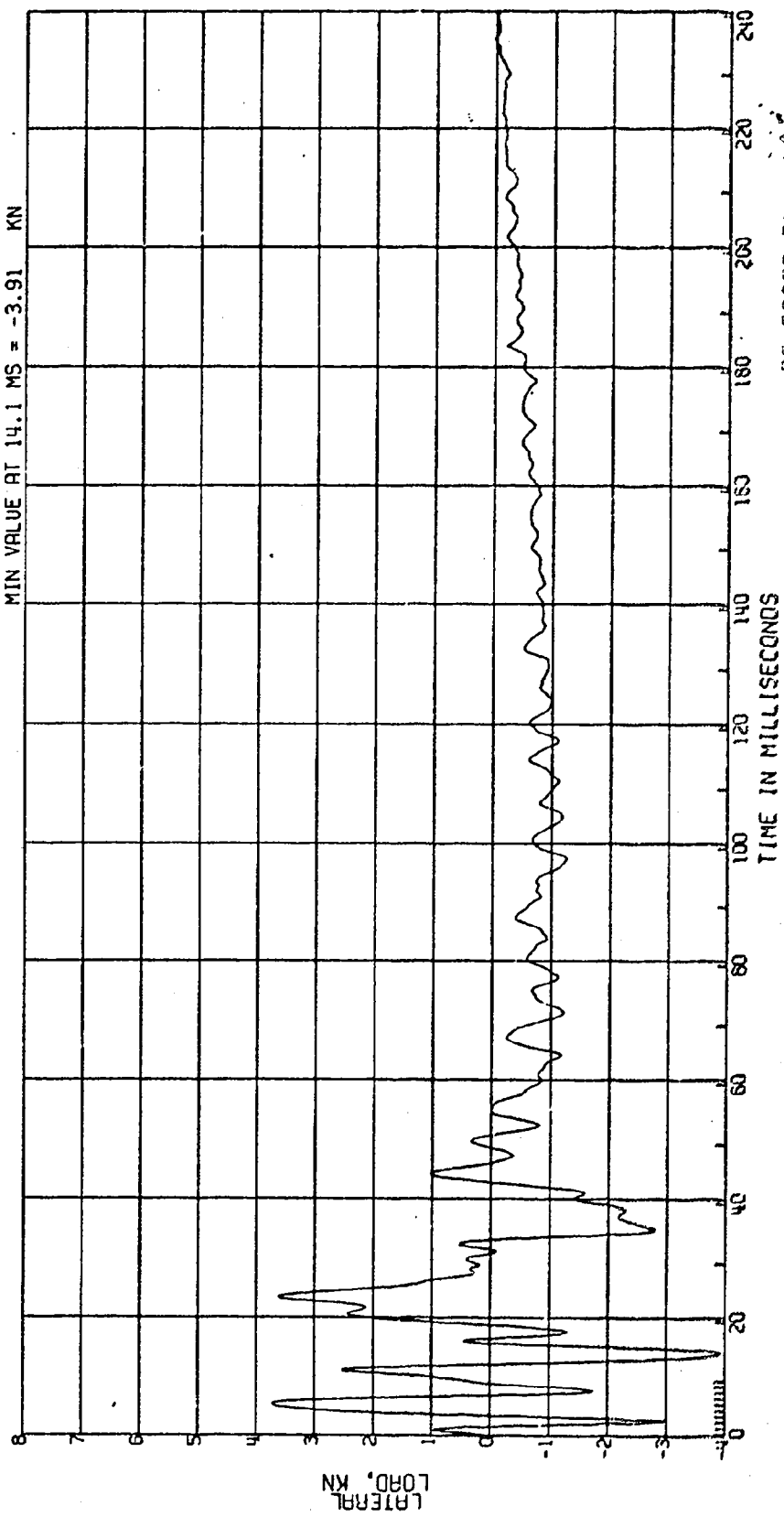
FISHER BODY FACE A

PASS-SIDE STRUCK BARRIER UPPER LOAD

TEST DATE: 05-03-84

A-D DATA SAE CLASS 60

MAX VALUE AT 5.25 MS = 3.74 KN
MIN VALUE AT 14.1 MS = -3.91 KN



REF: PAGE 21, 22

C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 1

3865-448

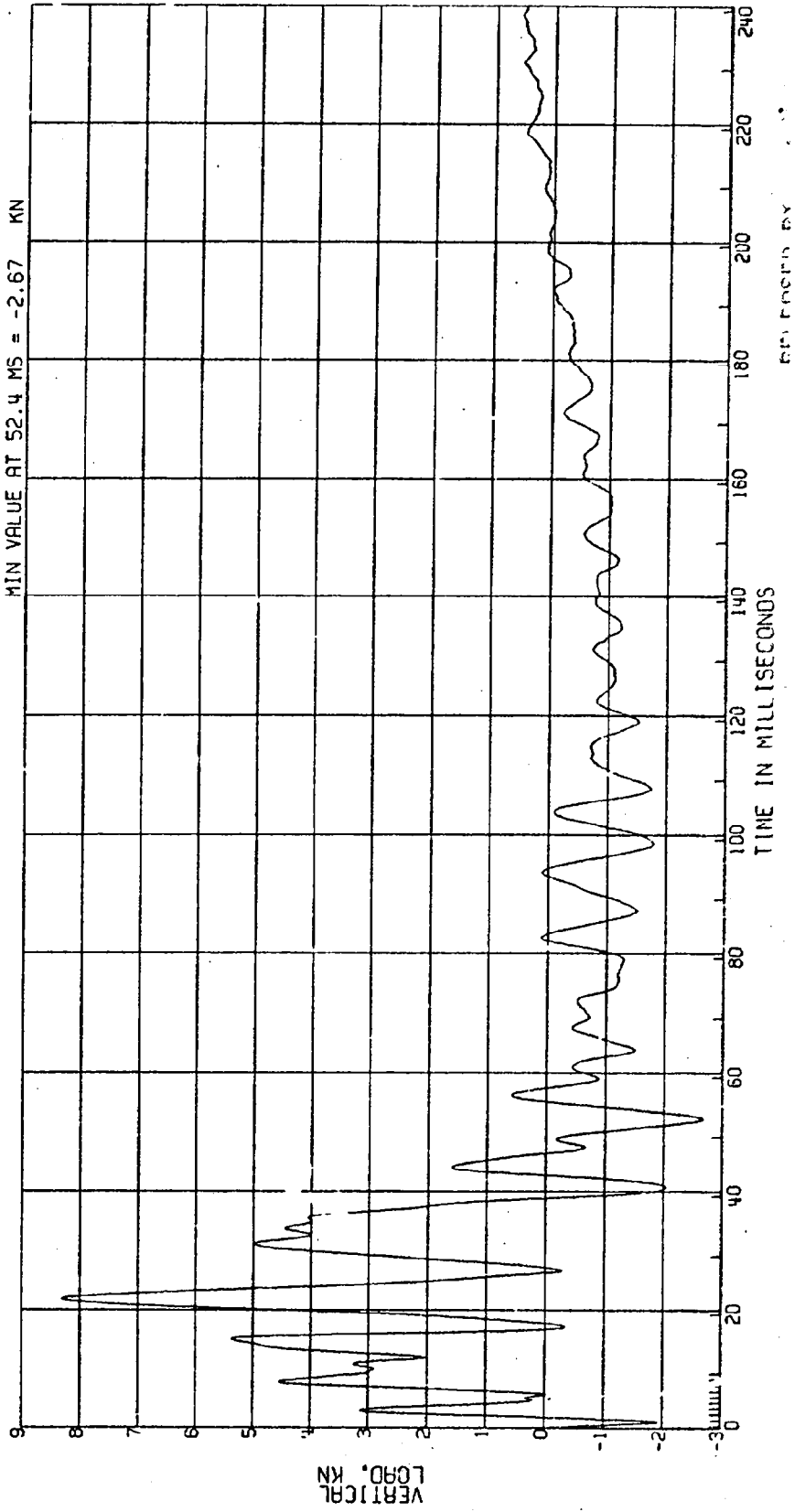
FISHER BODY FACE A

PASS-SIDE STRUCK BARRIER UPPER LOAD

TEST DATE: 05-03-84

A-D DATA SAE CLASS 60

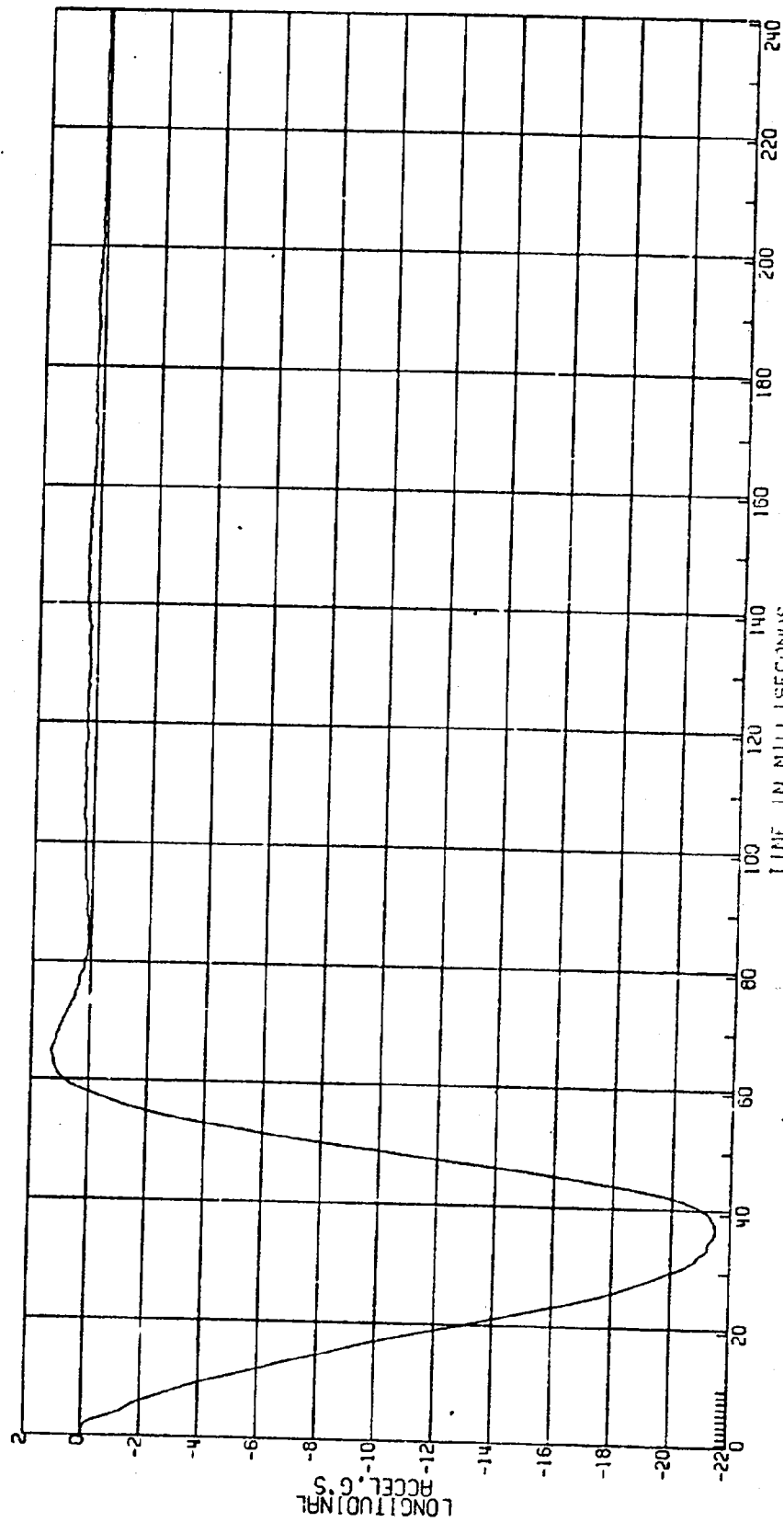
MAX VALUE AT 21.9 MS = 8.31 KN
MIN VALUE AT 52.4 MS = -2.67 KN



C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

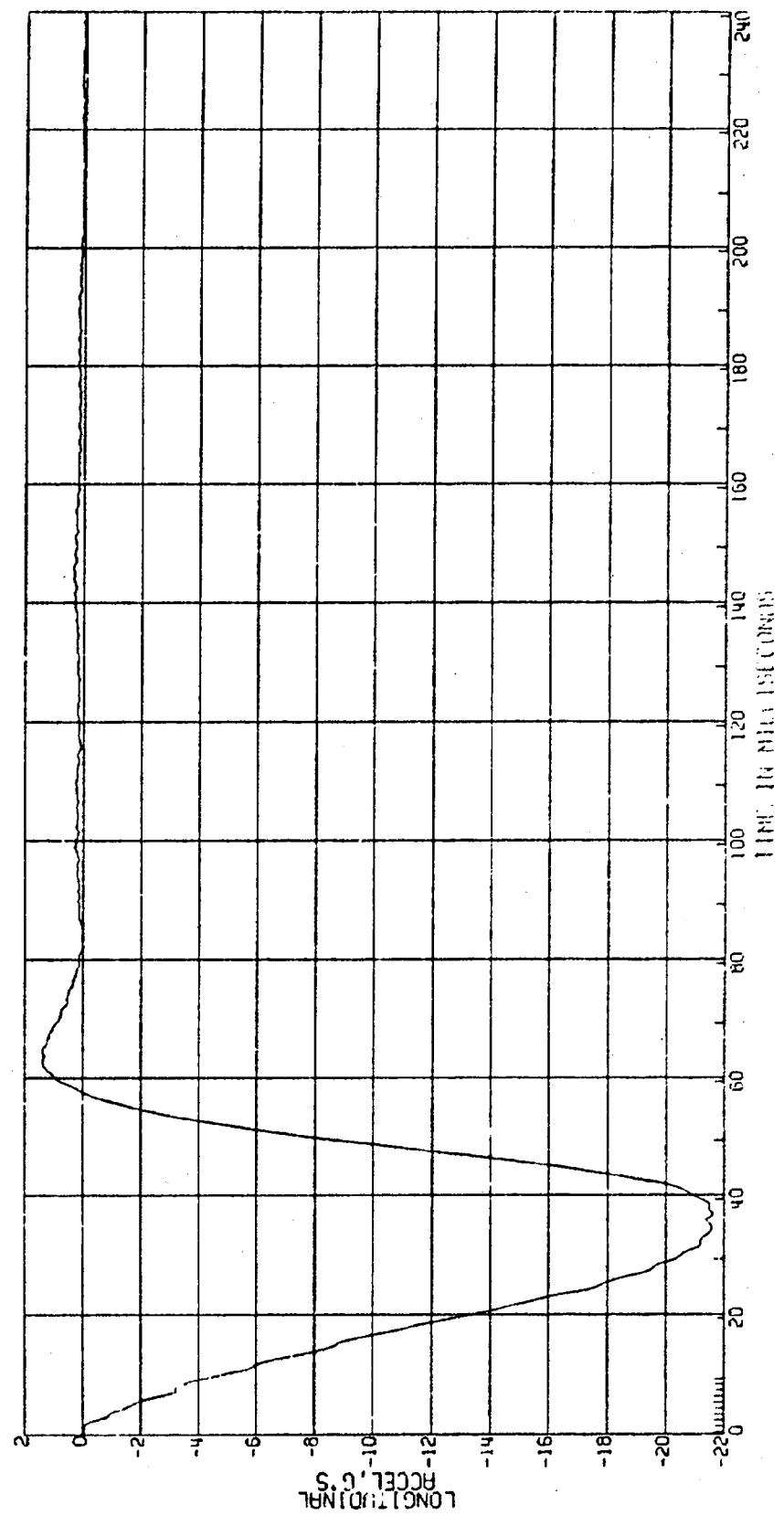
DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 23
STRUCK VEH KINEMATICS-AXO ACCEL.

TEST DATE: 05-03-84



C59538 BARRIAR TO BARRIER
 3865-448
 FISHER BODY FACE A
 A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 24
 STRUCK VEH KINEMATICS-AX1 ACCEL.
 TEST DATE:05-03-84

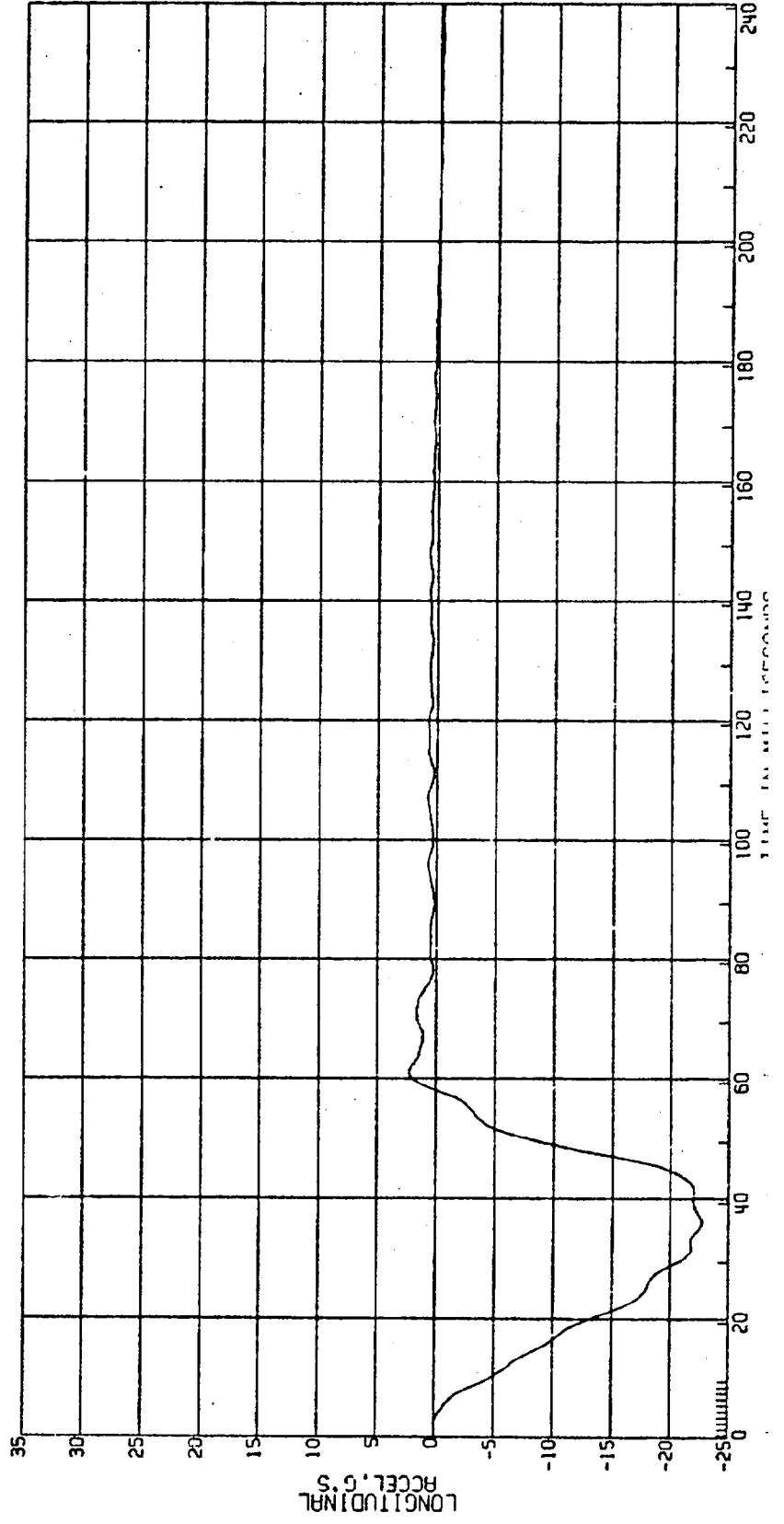


CS9538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 15

STRUCK VEH KINEMATICS-AX3 ACCEL.

TEST DATE:05-03-84



C59538 BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 1-2

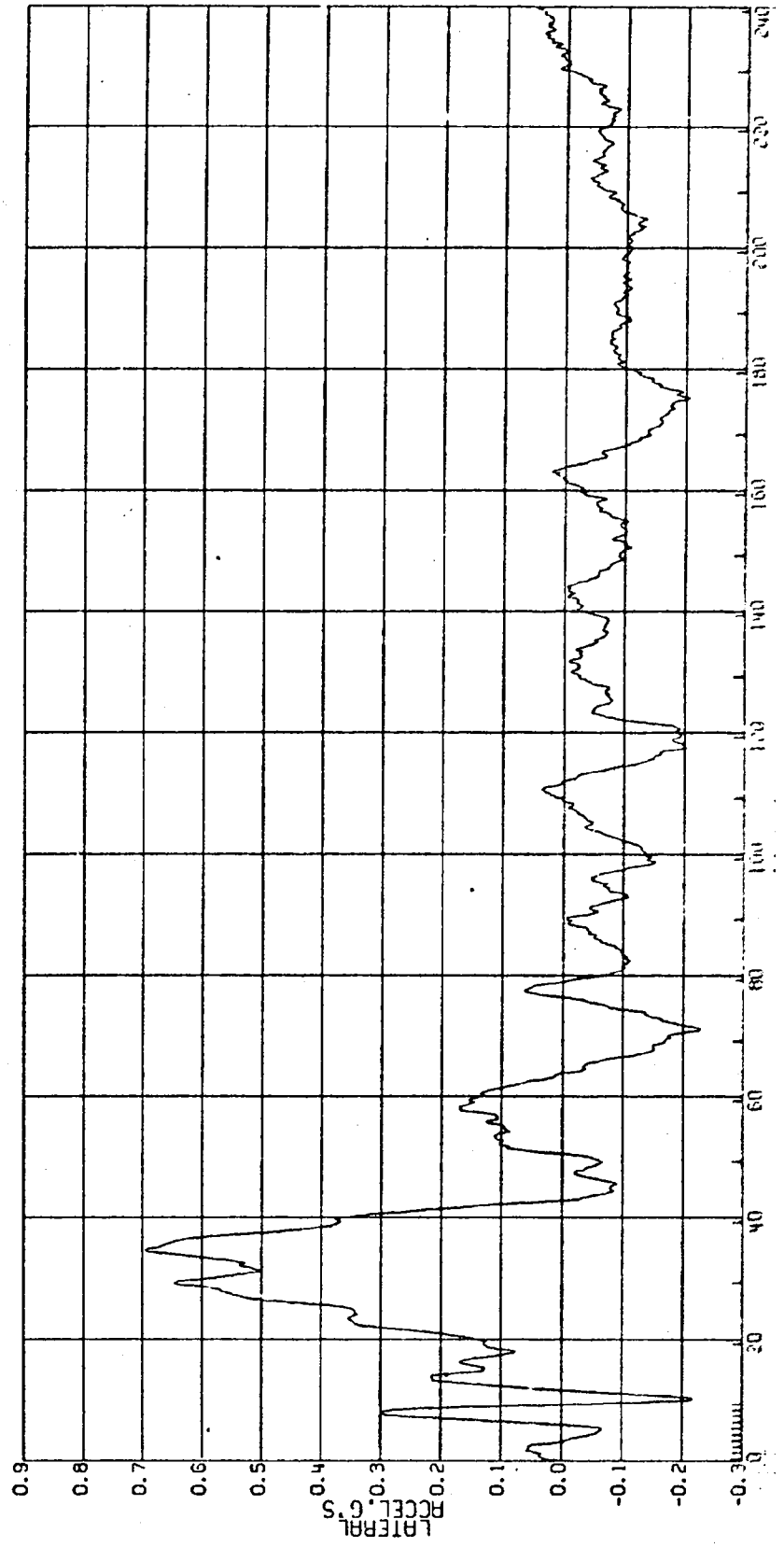
3865-448

FISHER BODY FACE A

STRUCK VEH KINEMATICS-AYO ACCEL.

TEST DATE: 05-03-84

A-D DATA SAE CLASS 180

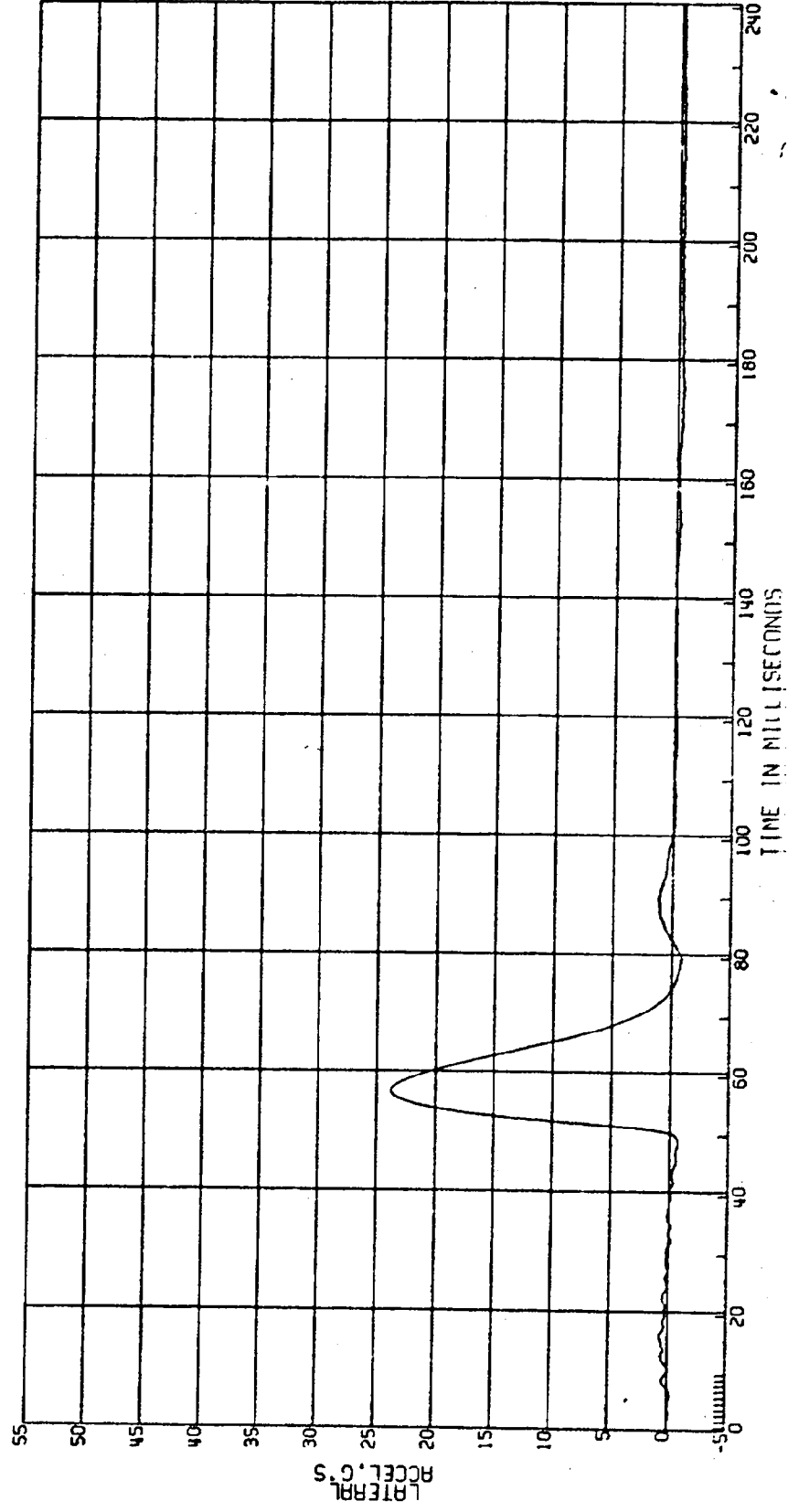


C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 27

STRUCK VEH KINEMATICS-AY2 ACCEL.

TEST DATE:05-03-84



CS9538 BARRIER TO BARRIER

3865-448

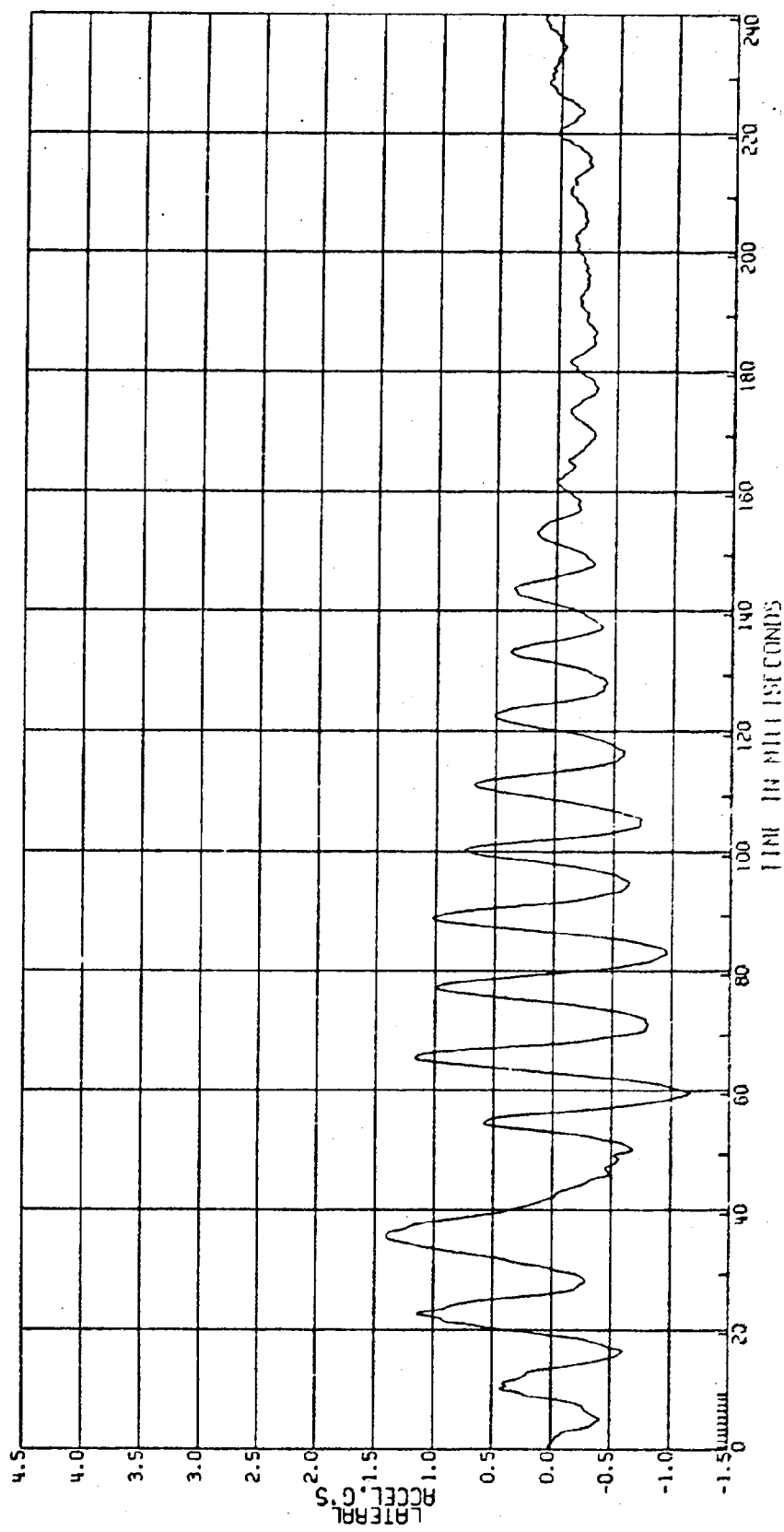
FISHER BODY FACE A

A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 2

STRUCK VEH KINEMATICS-AY3 ACCEL.

TEST DATE:05-03-84

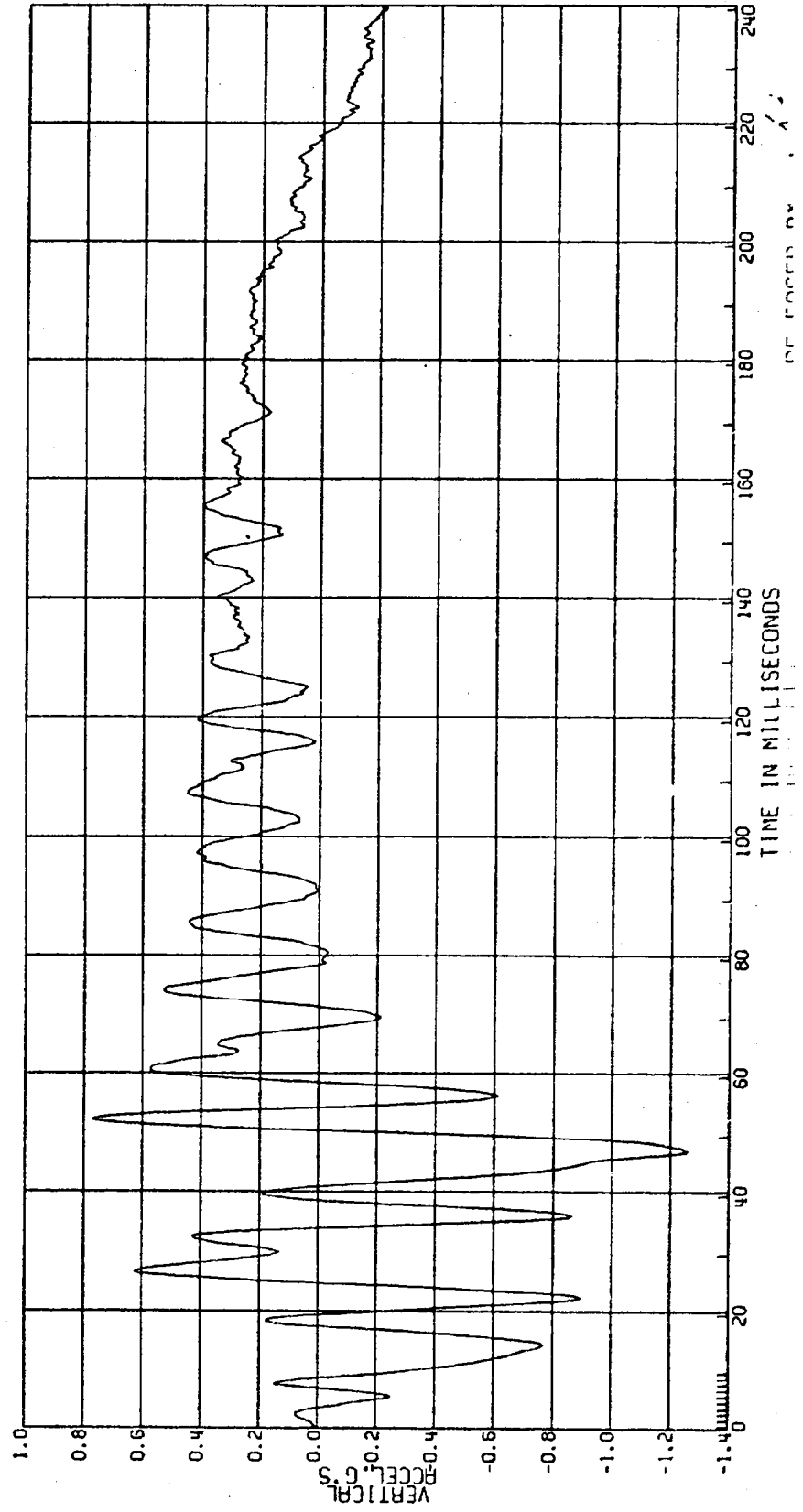


C59538 BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8 KM/H FIGURE 2?

STRUCK VEH KINEMATICS-AZO ACCEL.

TEST DATE: 05-03-84



C5953B BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 30

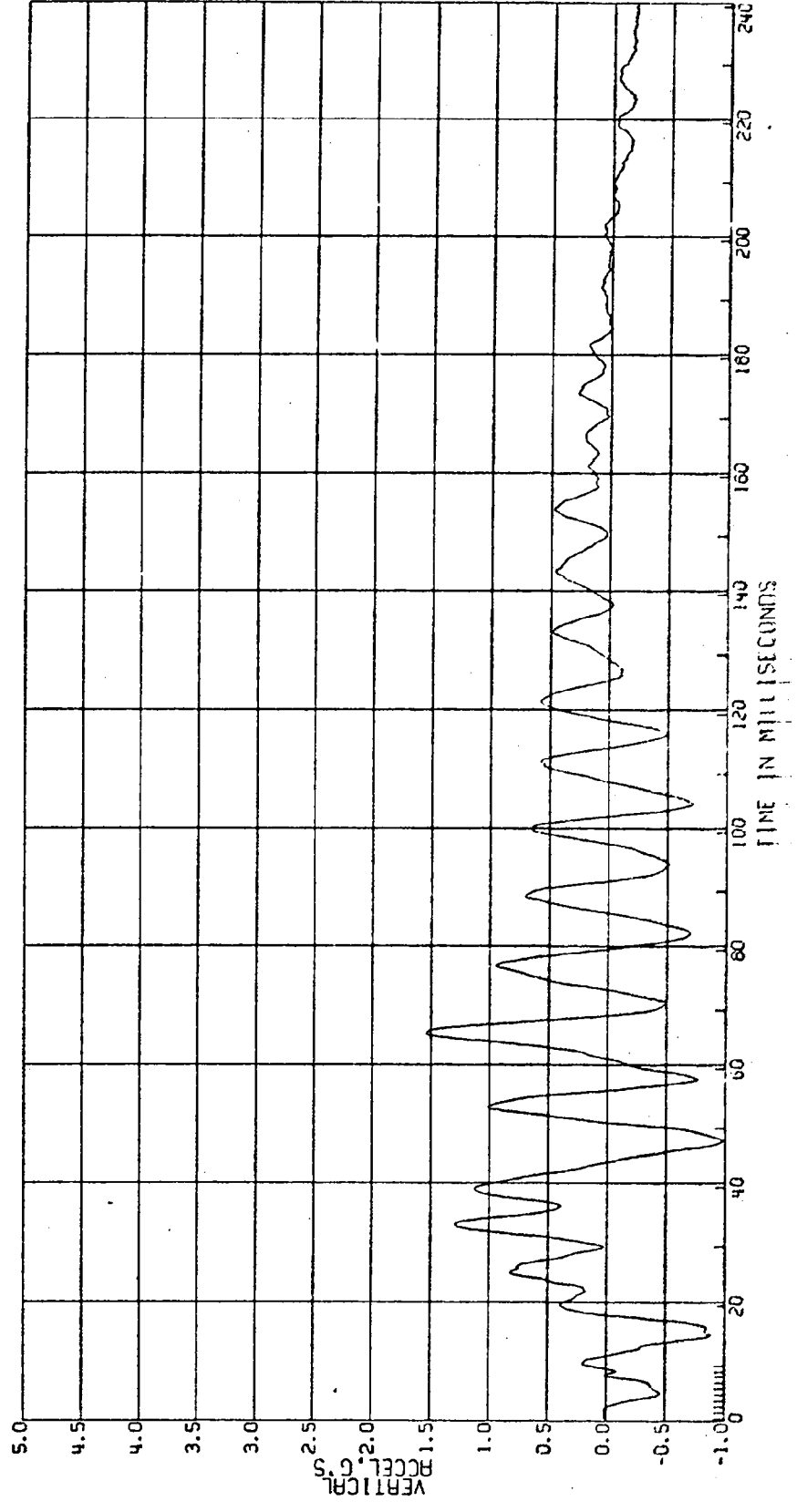
3865-448

FISHER BODY FACE A

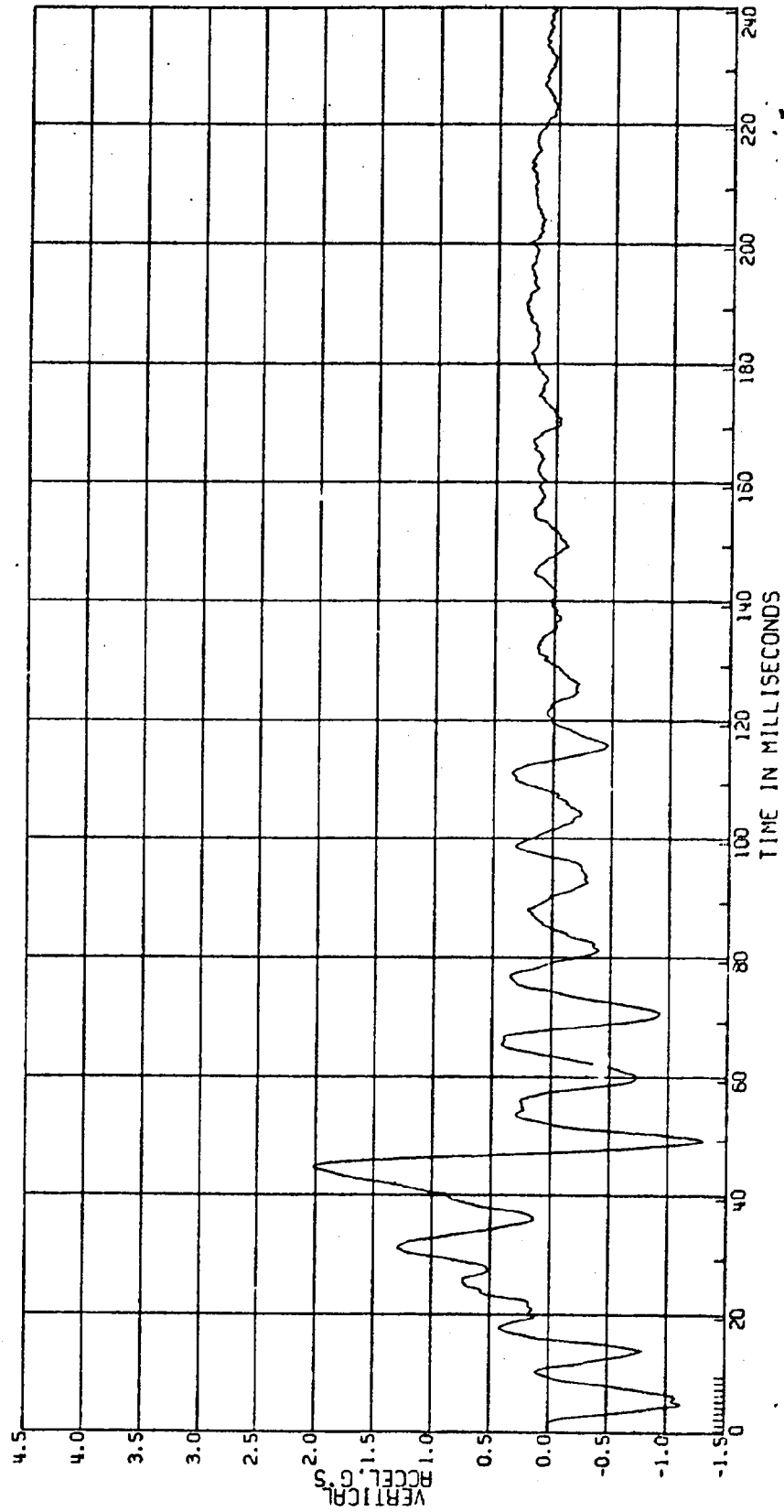
STRUCK VEH KINEMATICS-AZ1 ACCEL.

TEST DATE: 05-03-84

A-D DATA SAE CLASS 180



C59538 BARRIER TO BARRIER DEFORMABLE BARR TO LOAD CELL BARRIER 41.8KM/H FIGURE 3/
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180
STRUCK VEH KINEMATICS-AZ2 ACCEL.
TEST DATE: 05-03-84

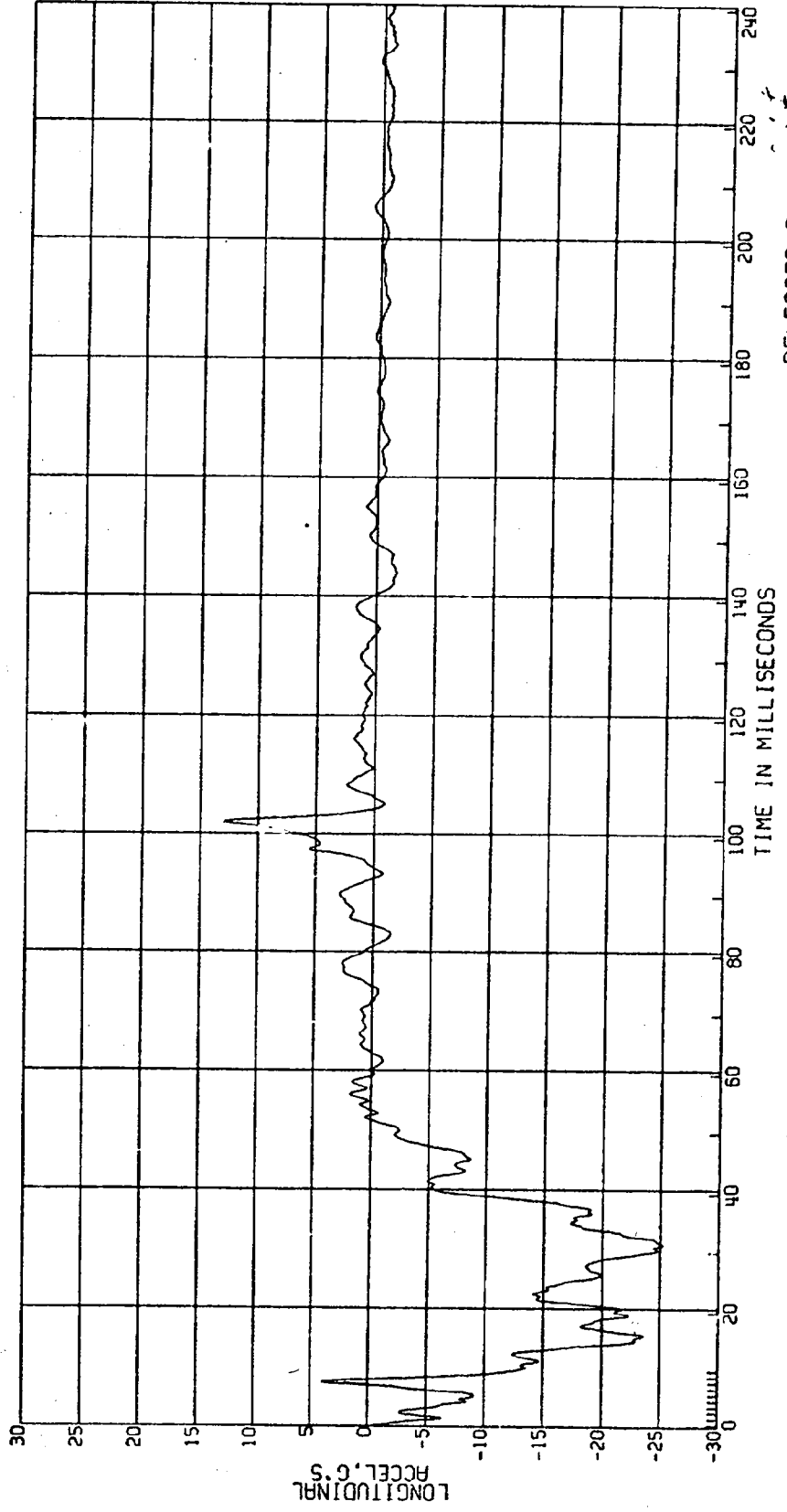


C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 32

DR-SIDE STRIKING BARRIER FRONT ACCEL.

TEST DATE: 05-03-84

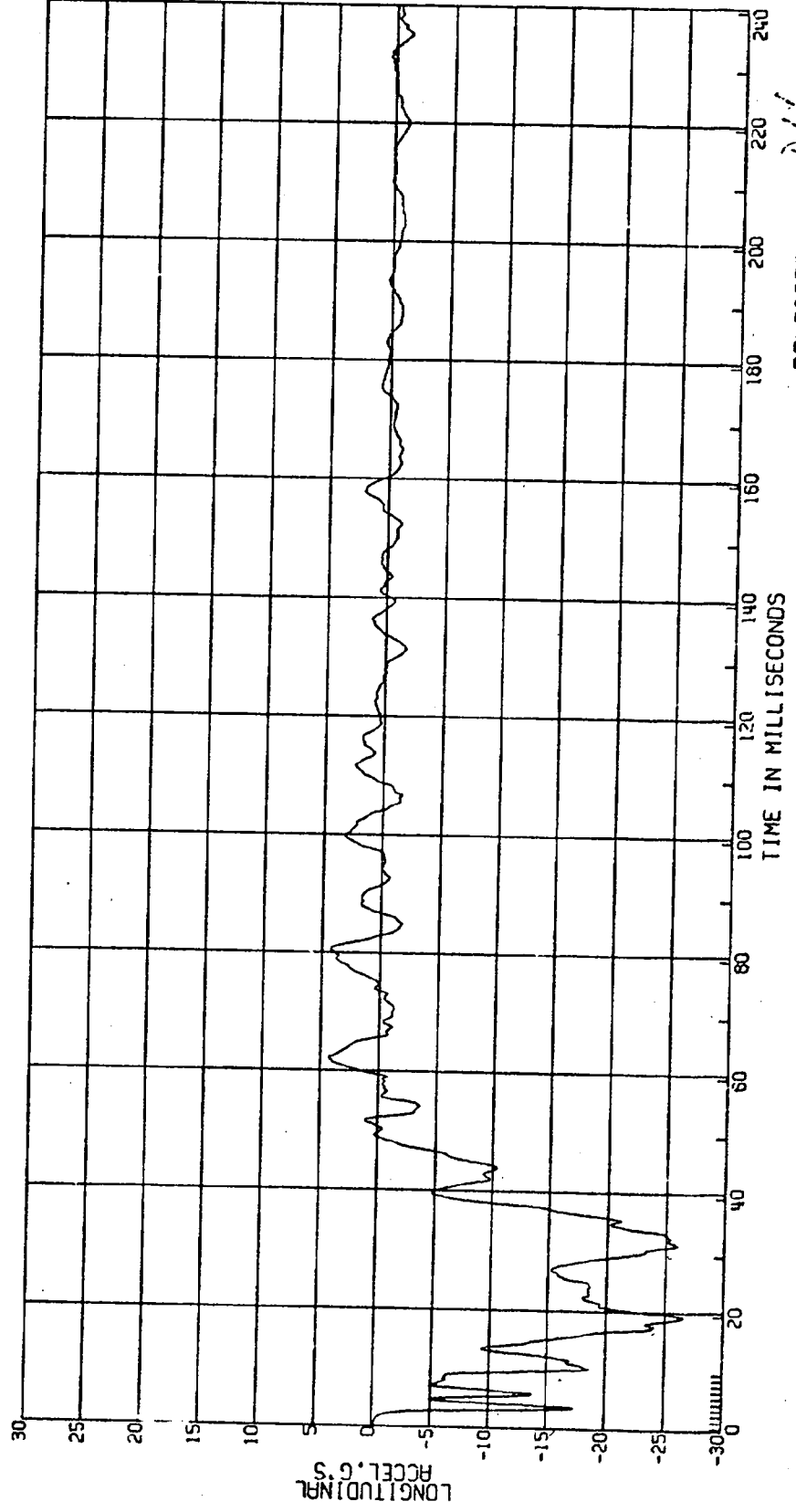


C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 1.8 KM/H FIGURE 33

PASS-SIDE STRIKING BARRIER FRONT ACCEL.

TEST DATE: 05-03-84



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C5953A BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 34

3865-448

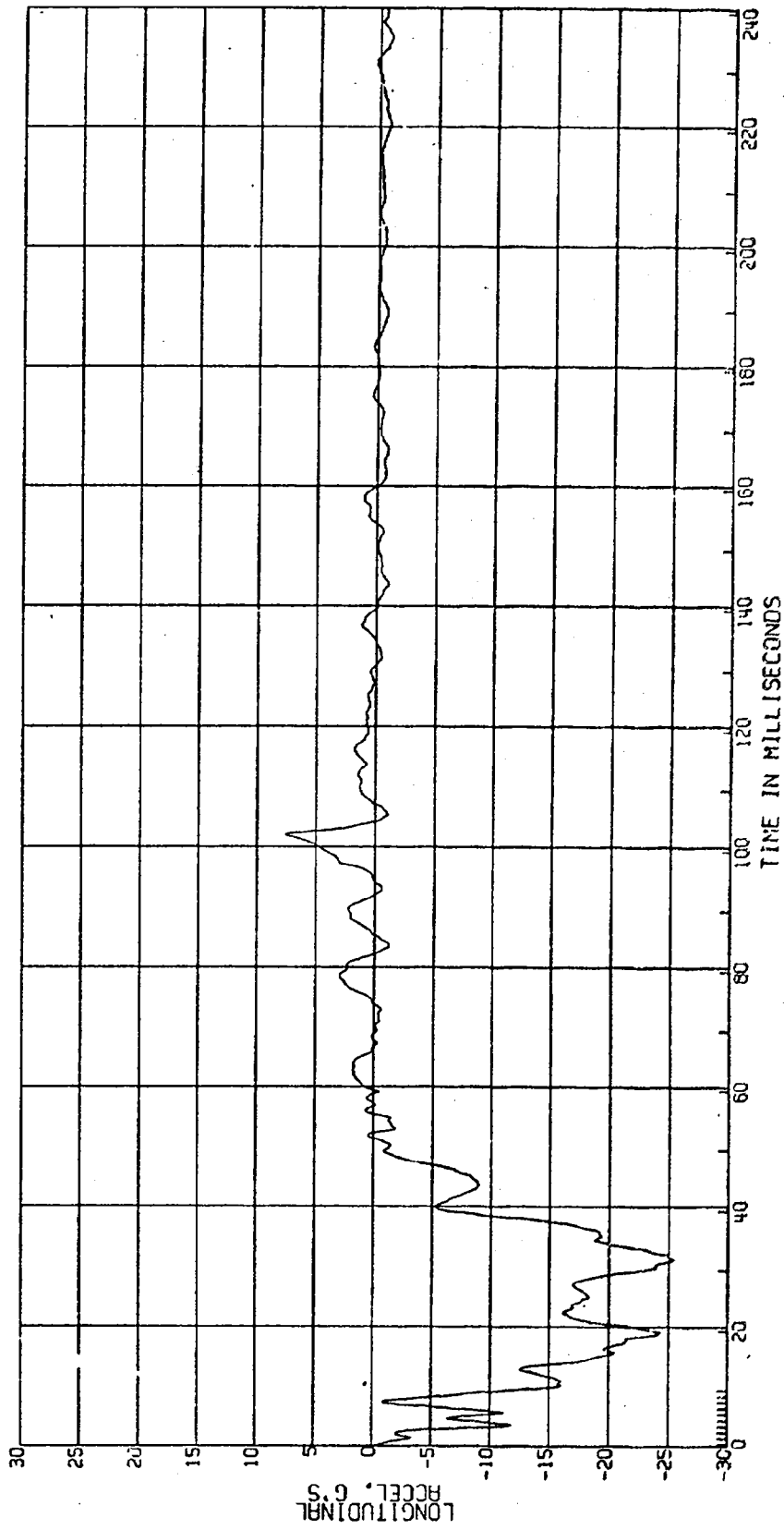
FISHER BODY FACE A

A-D DATA SAE CLASS 60

AVERAGED DR & PASS SIDES

TEST DATE: 05-03-84

AVERAGED STRIKING BARR FRT ACCEL



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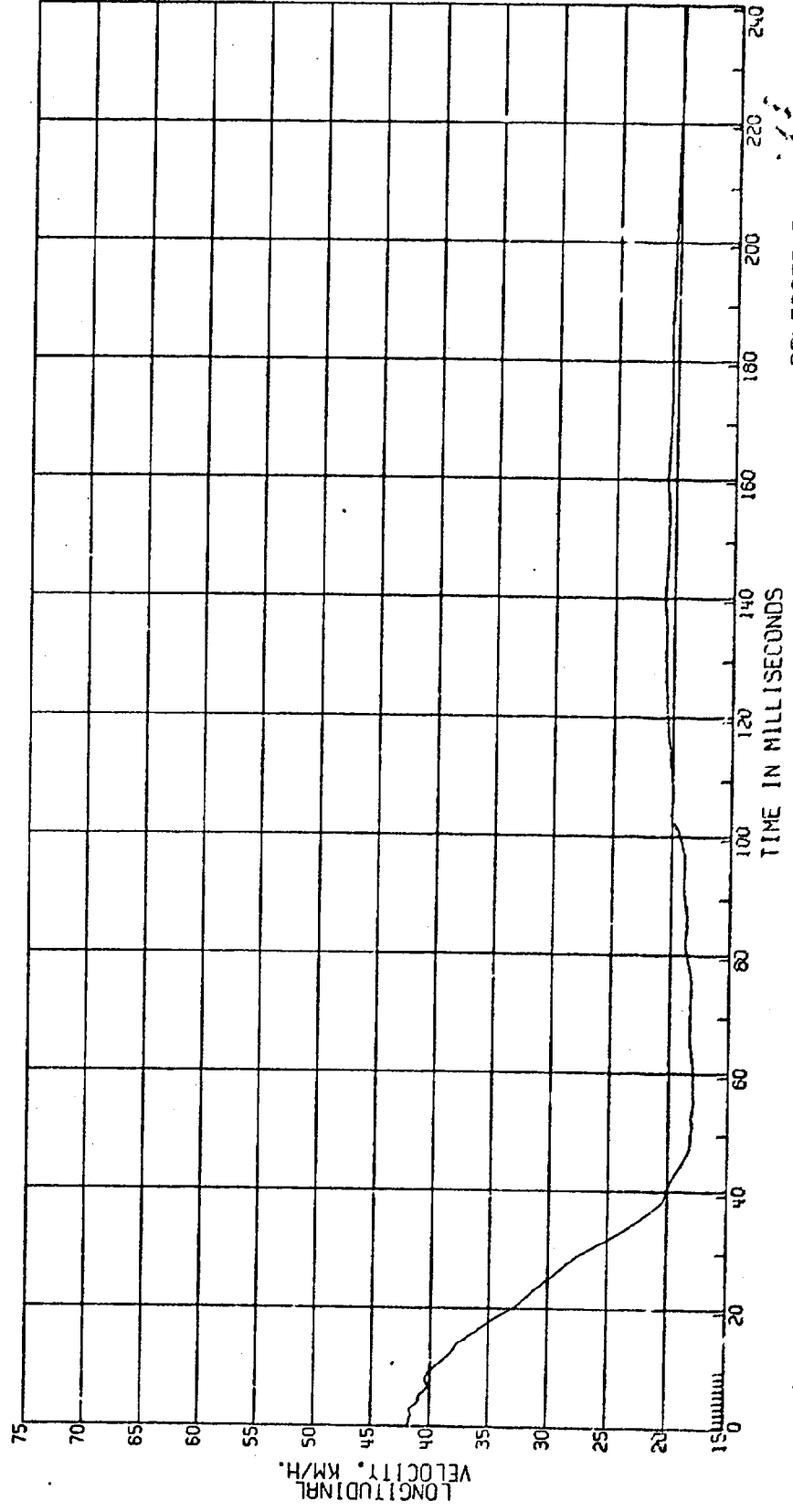
C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 35

COMPUTED STRIKING BARR FRT VEL

TEST DATE: 05-03-84

(1ST INTEGRAL AVERAGED ACCELERATION)



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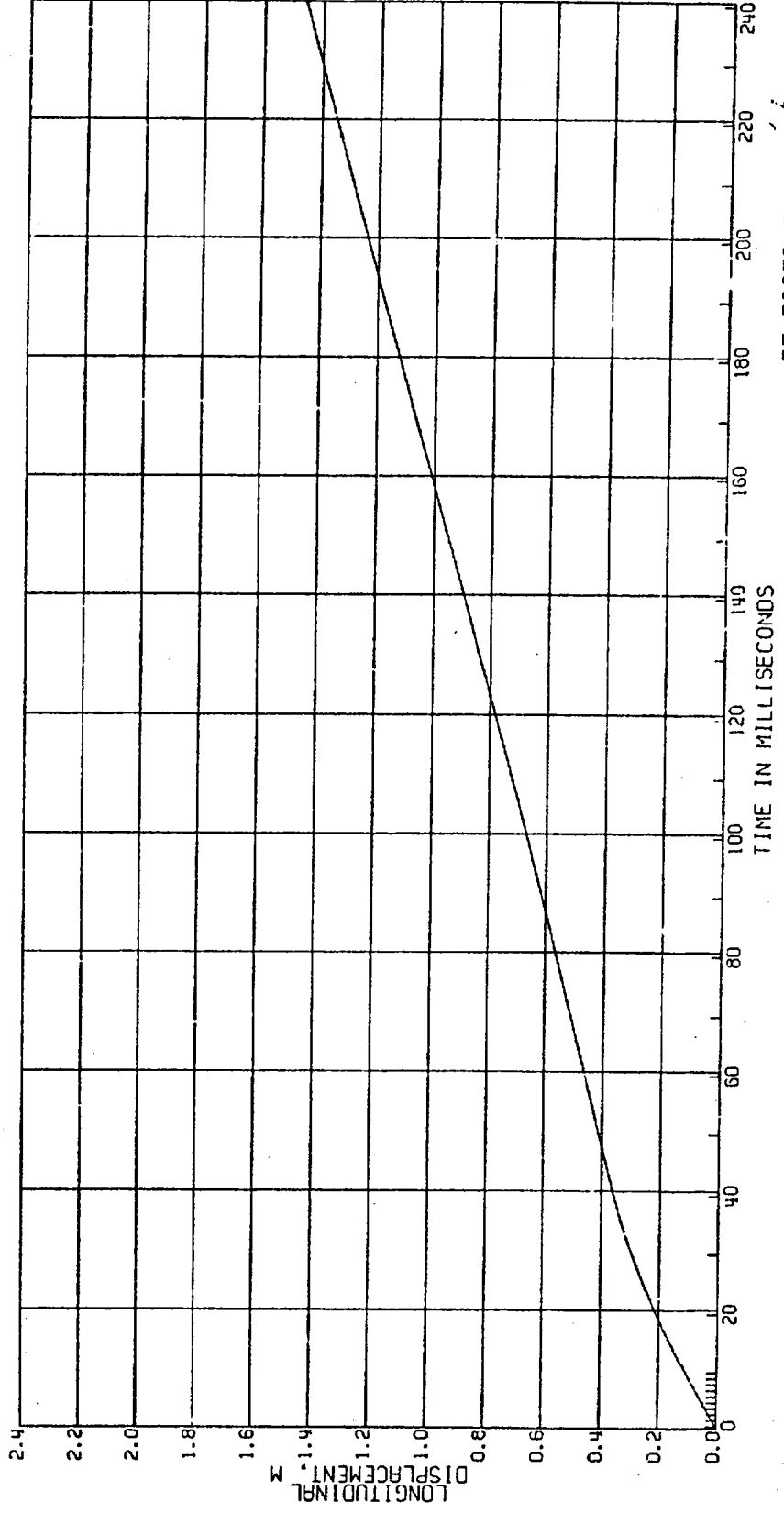
C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 36

COMPUTED STRIKING BARR FRT DISP

TEST DATE: 05-03-84

(2ND INTEGRAL AVERAGED ACCELERATION)



C5953A BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 37

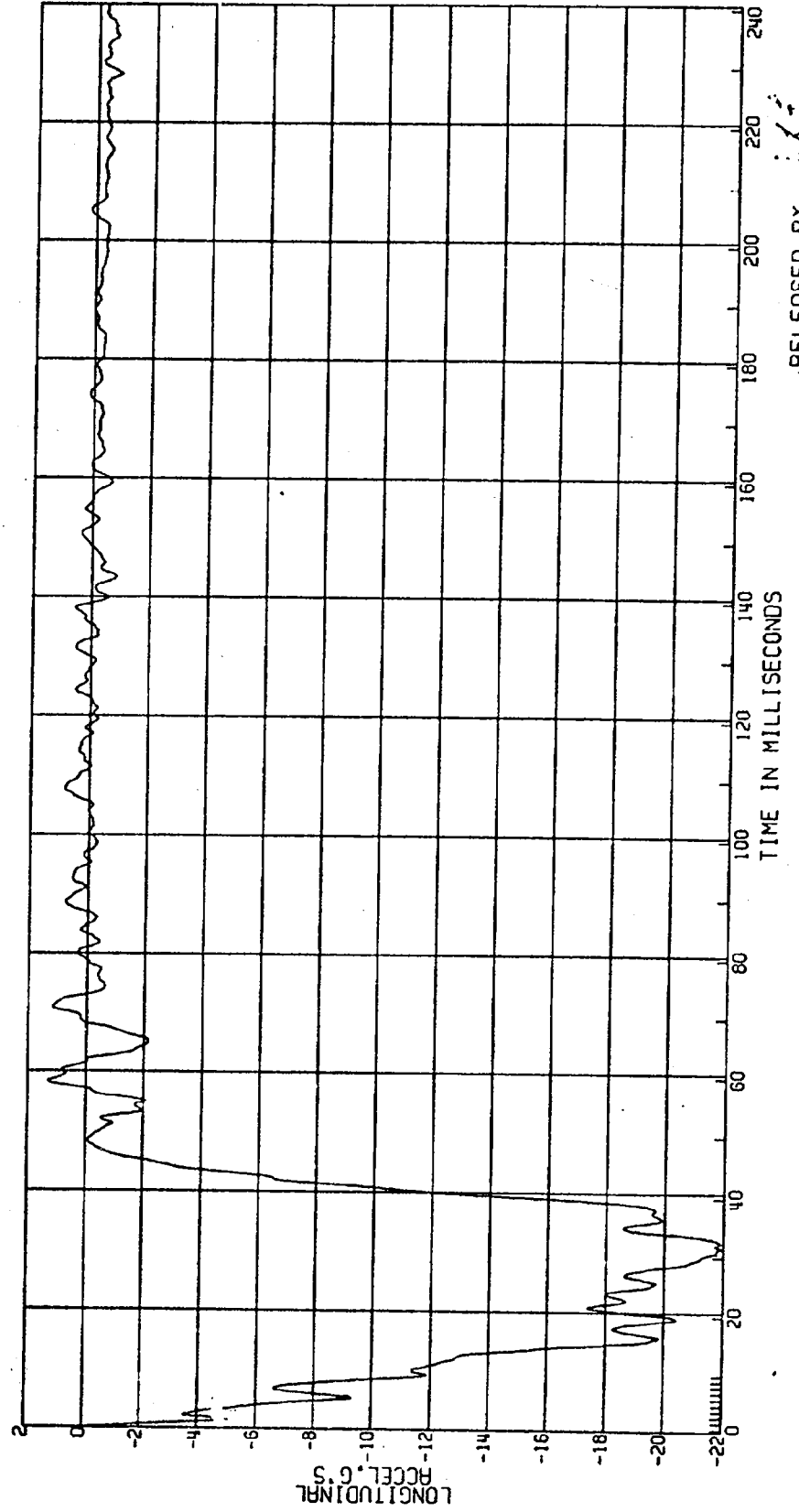
3865-448

FISHER BODY FACE A

DR-SIDE STRIKING BARRIER MID ACCEL.

A-D DATA SAE CLASS 60

TEST DATE: 05-03-84



RELEASED BY: *ind*

C5953A BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 38

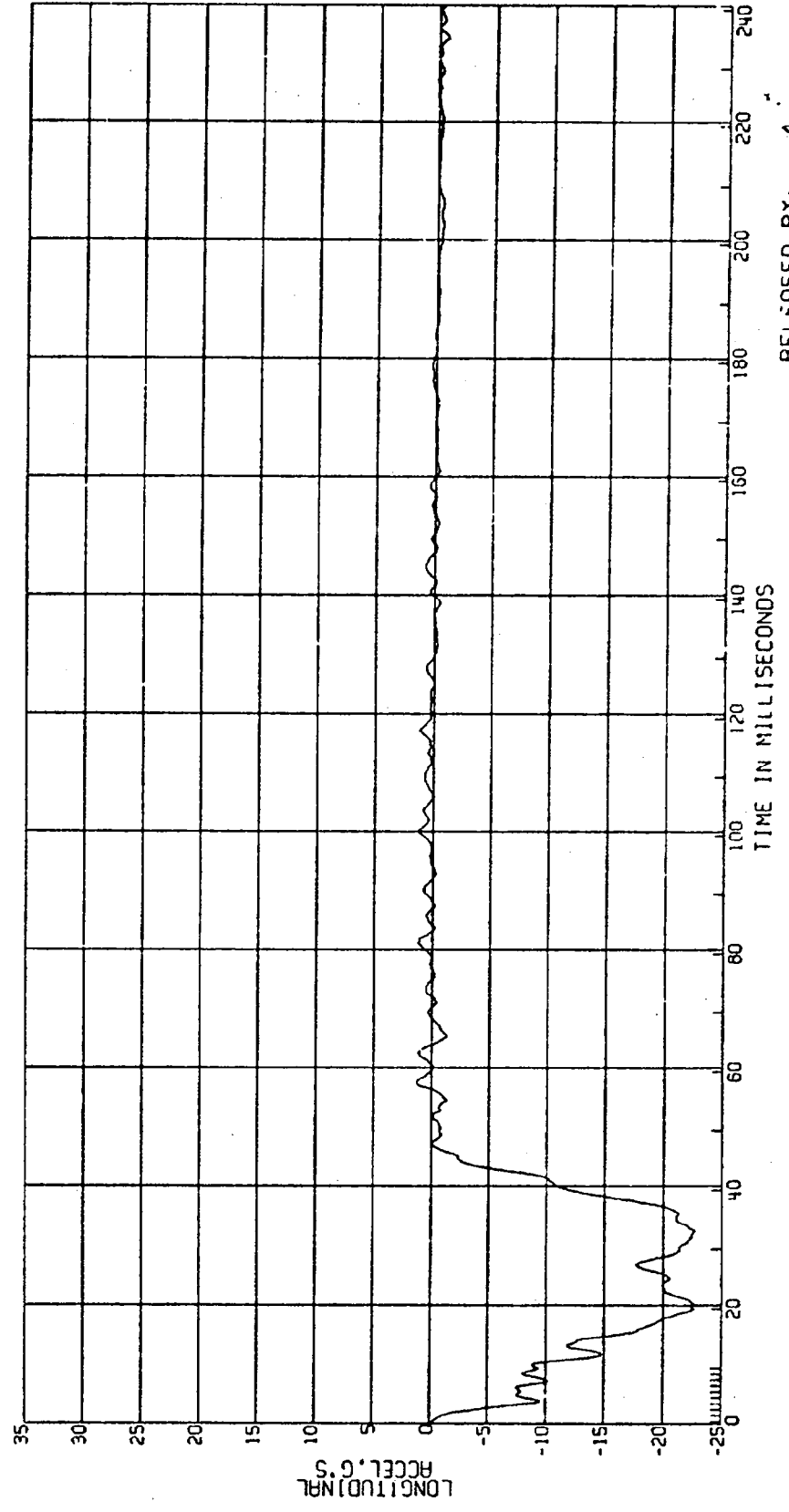
3865-448

FISHER BODY FACE A

PASS-SIDE STRIKING BARRIER MID ACCEL.

TEST DATE: 05-03-84

A-D DATA SAE CLASS 60



RELEASED BY: 74

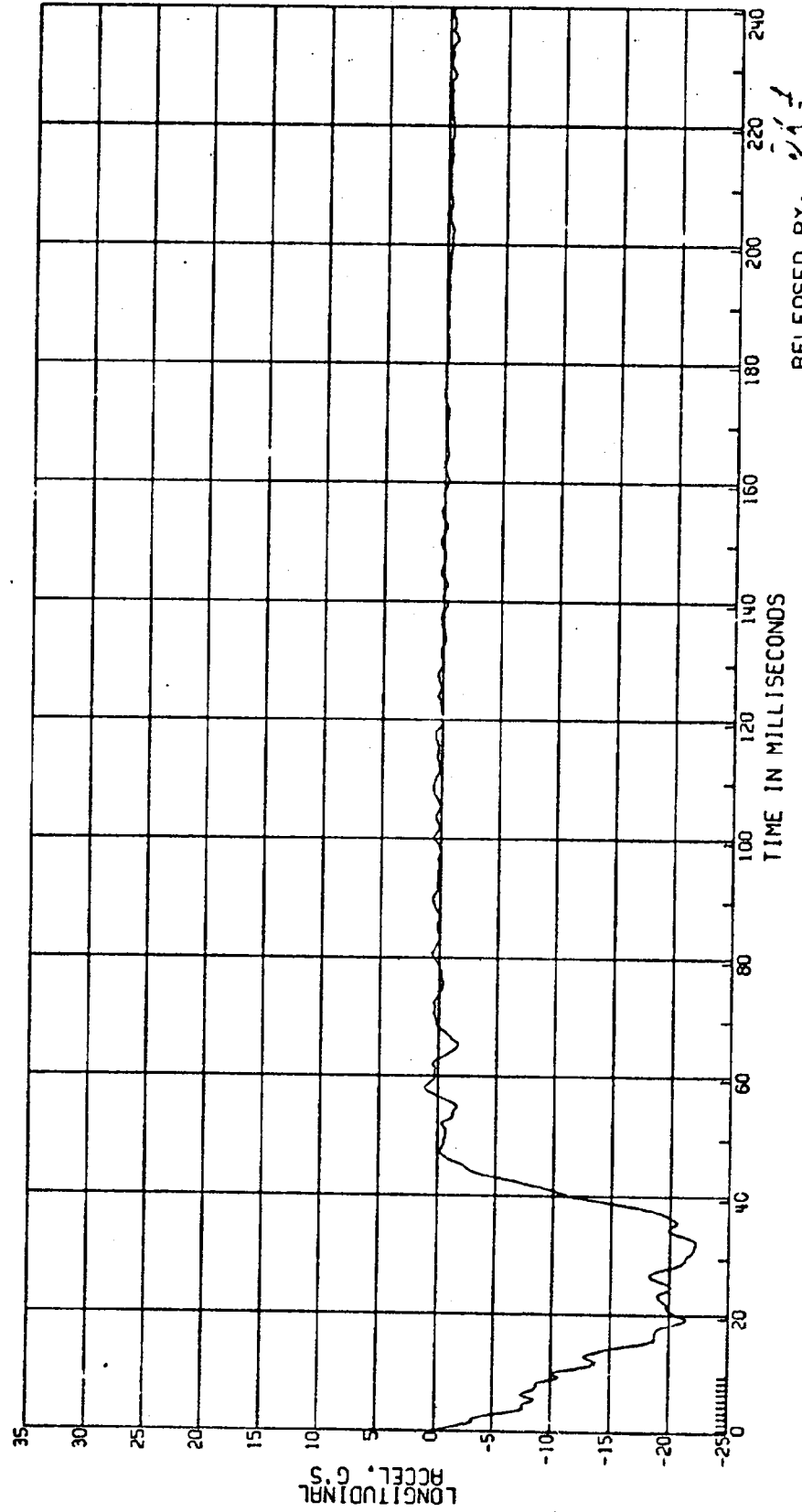
CS953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 60

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 39

AVERAGED DR & PASS SIDES

TEST DATE: 05-03-84

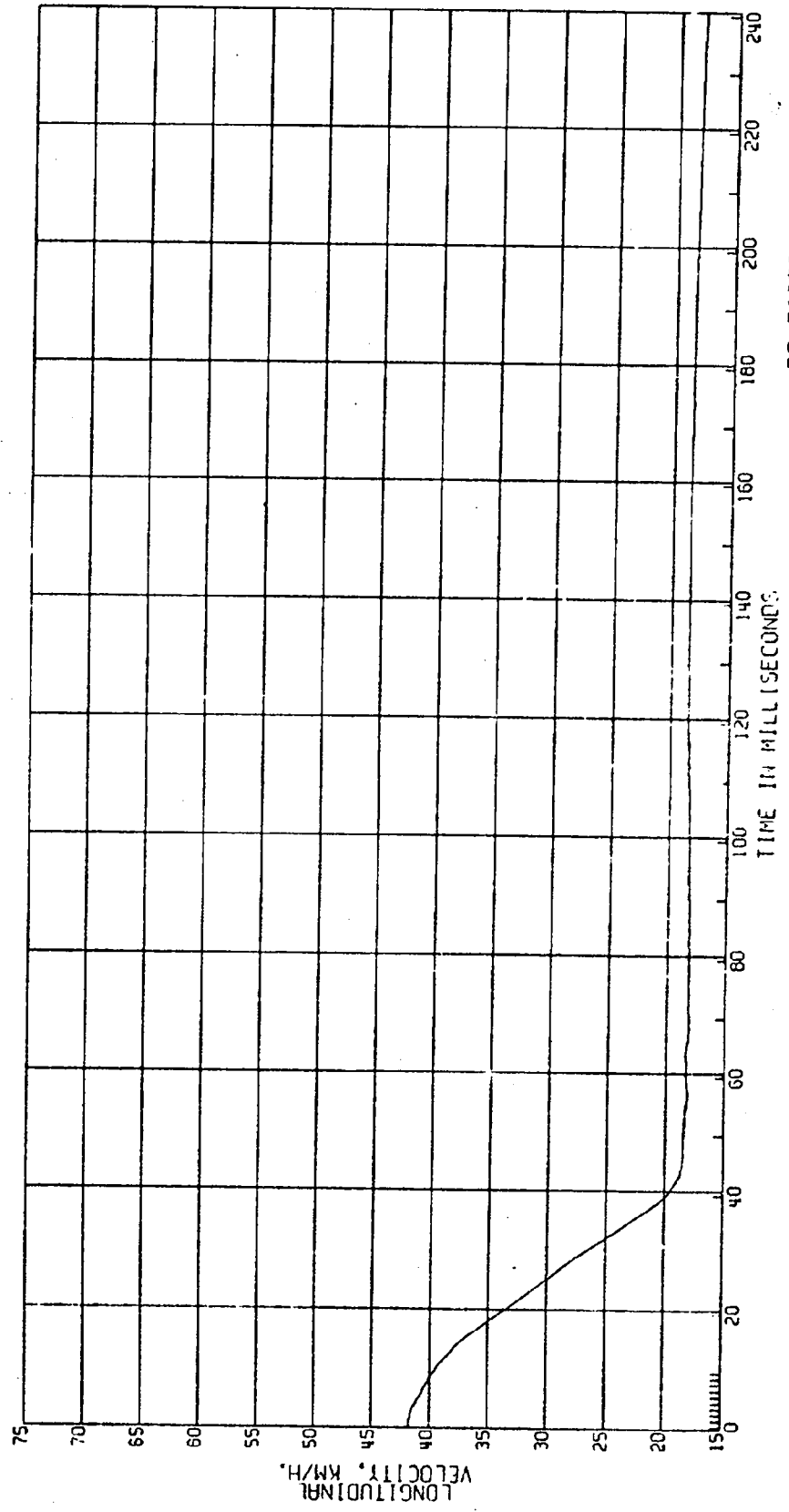
AVERAGED STRIKING BARR MID ACCEL



RELEASED BY: *WAF*

C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

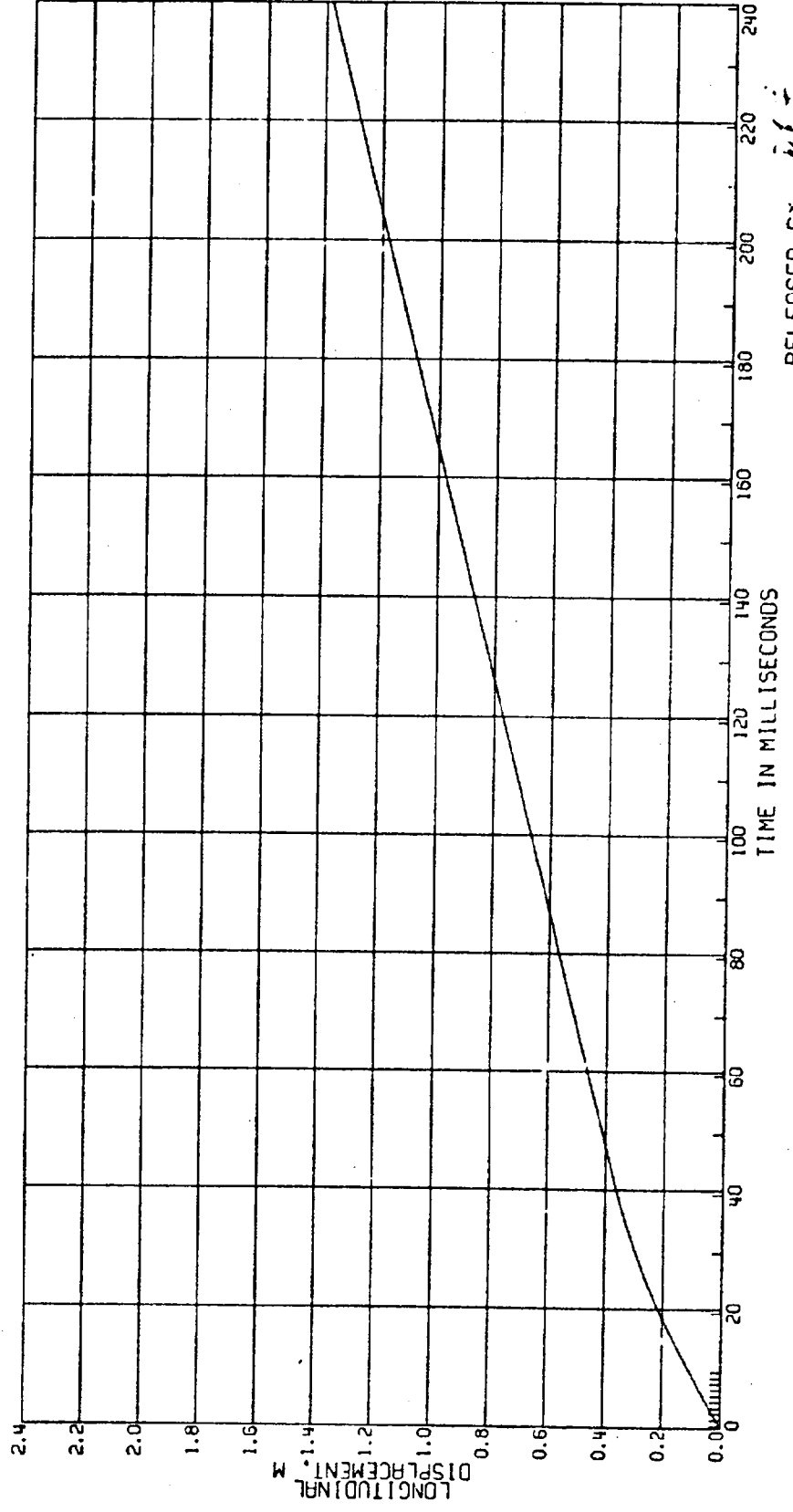
DEFORMABLE BARR TO LOAD CELL BARRIER 1.8 KM/H FIGURE 40
COMPUTED STRIKING BARR MID VEL
(1ST INTEGRAL AVERAGED ACCELERATION)
TEST DATE: 05-03-84



RELEASED BY: J.A.

CS953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 41
COMPUTED STRIKING BARR MID DISP
12ND INTEGRAL AVERAGED ACCELERATION
TEST DATE: 05-03-84

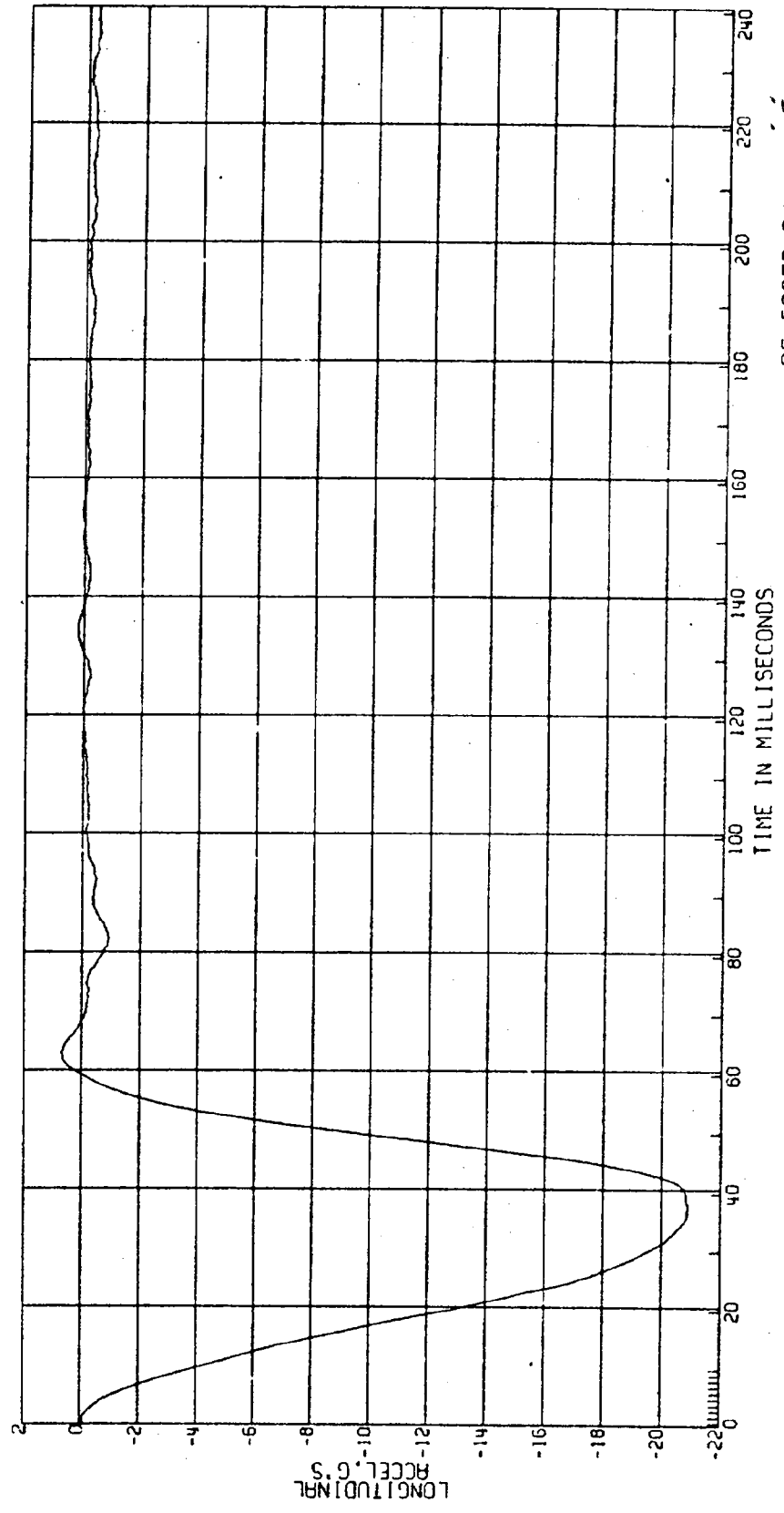


DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 10-12

STRIKING VEH KINEMATICS-AXO ACCEL.

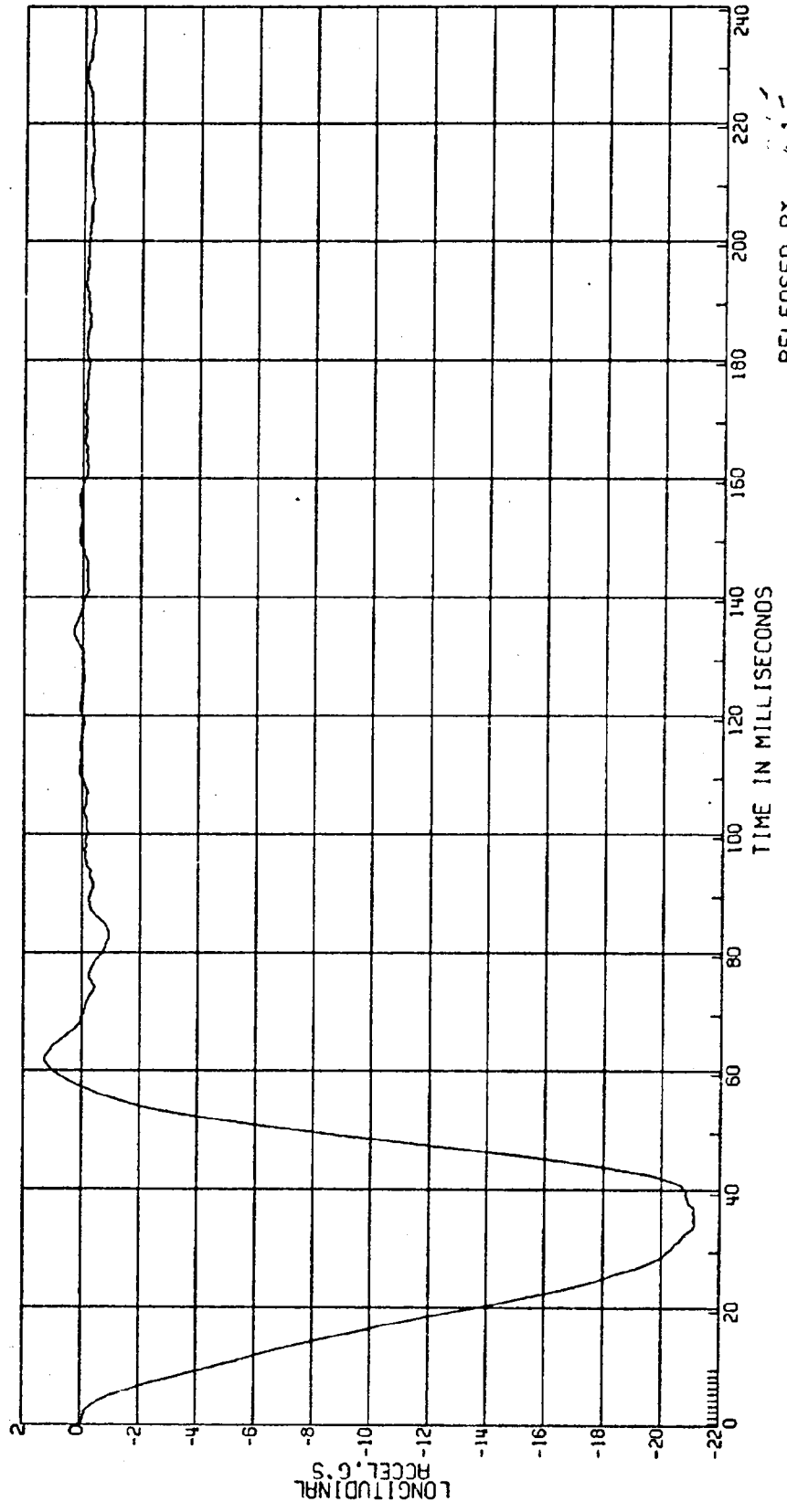
TEST DATE: 05-03-84

A-D DATA SAE CLASS 180



RELEASED BY: 7
7 PROCESSED 4 HY 84 18:50

CS953A BARRIER TO BARRIER DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 4/3
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180
STRIKING VEH KINEMATICS-AX1 ACCEL.
TEST DATE: 05-03-84



RELEASED BY: J. J. J.
B PROCESSED 4 MT 84 18:50

C5953A BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 4-1

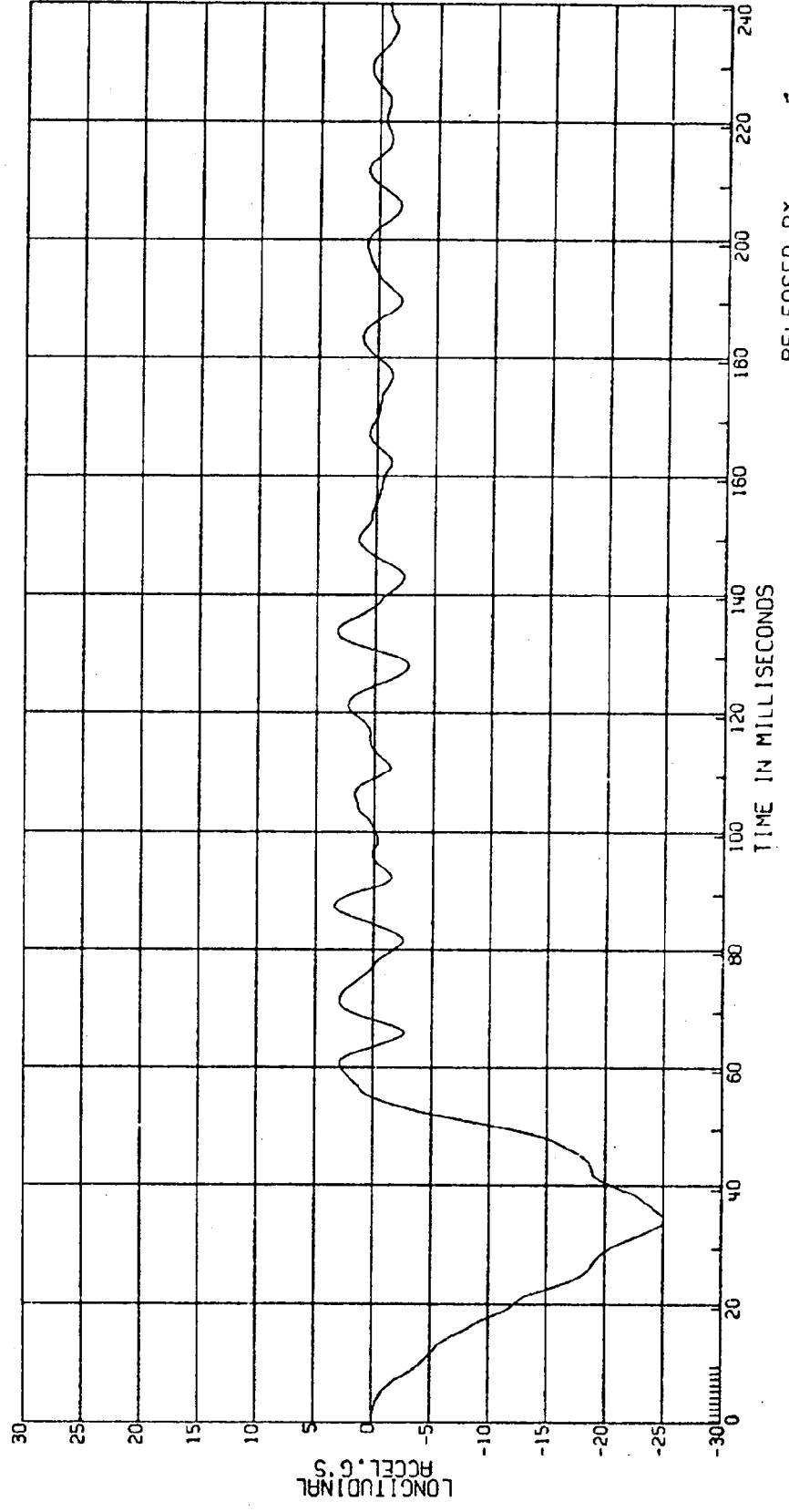
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FISHER BODY FACE A

STRIKING VEH KINEMATICS-AX3 ACCEL.

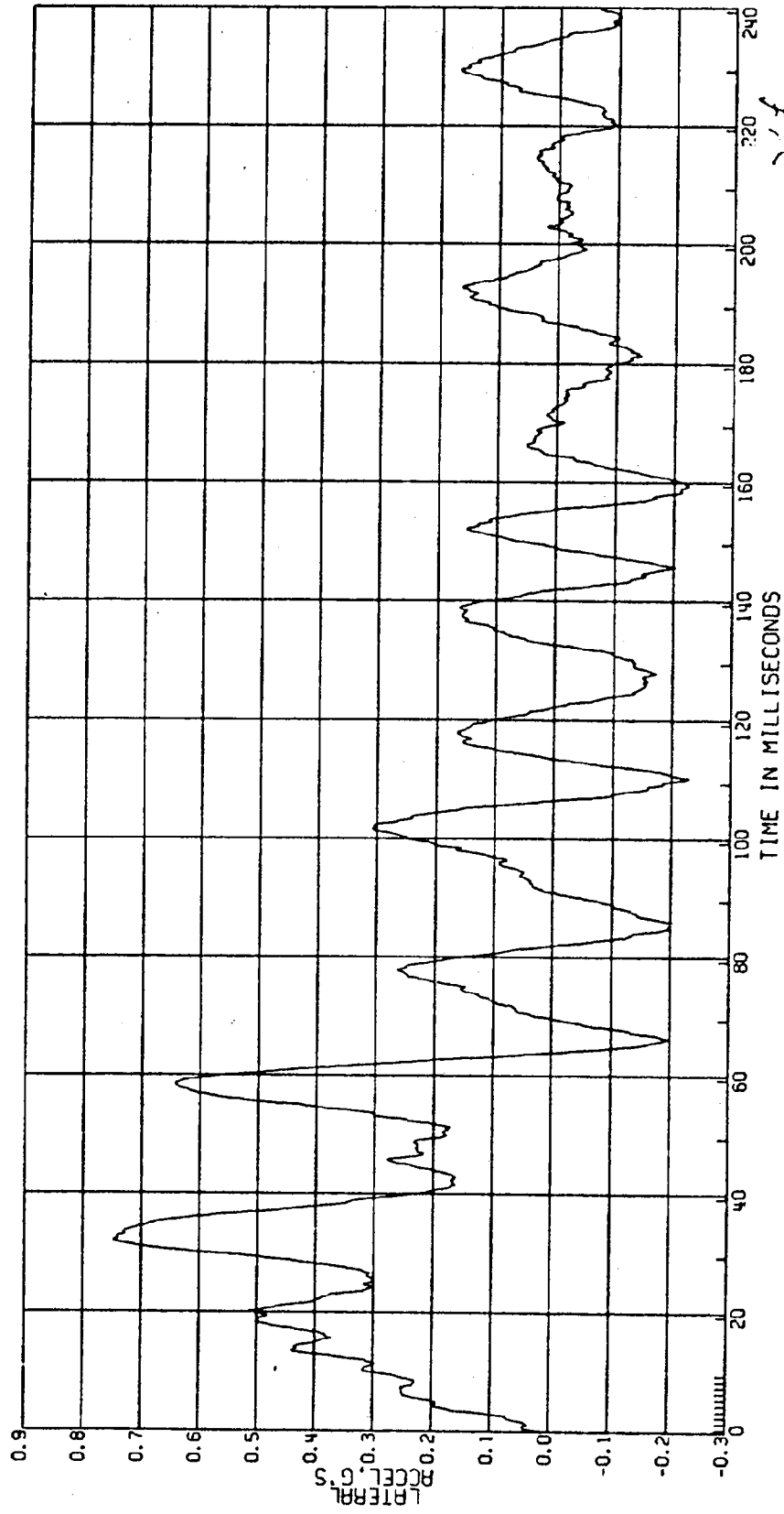
TEST DATE: 05-03-84

A-D DATA SAE CLASS 180



C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR 10.8 KM/H FIGURE 45
STRIKING VEH KINEMATICS-AYO ACCEL.
TEST DATE: 05-03-84



C5953A BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 1

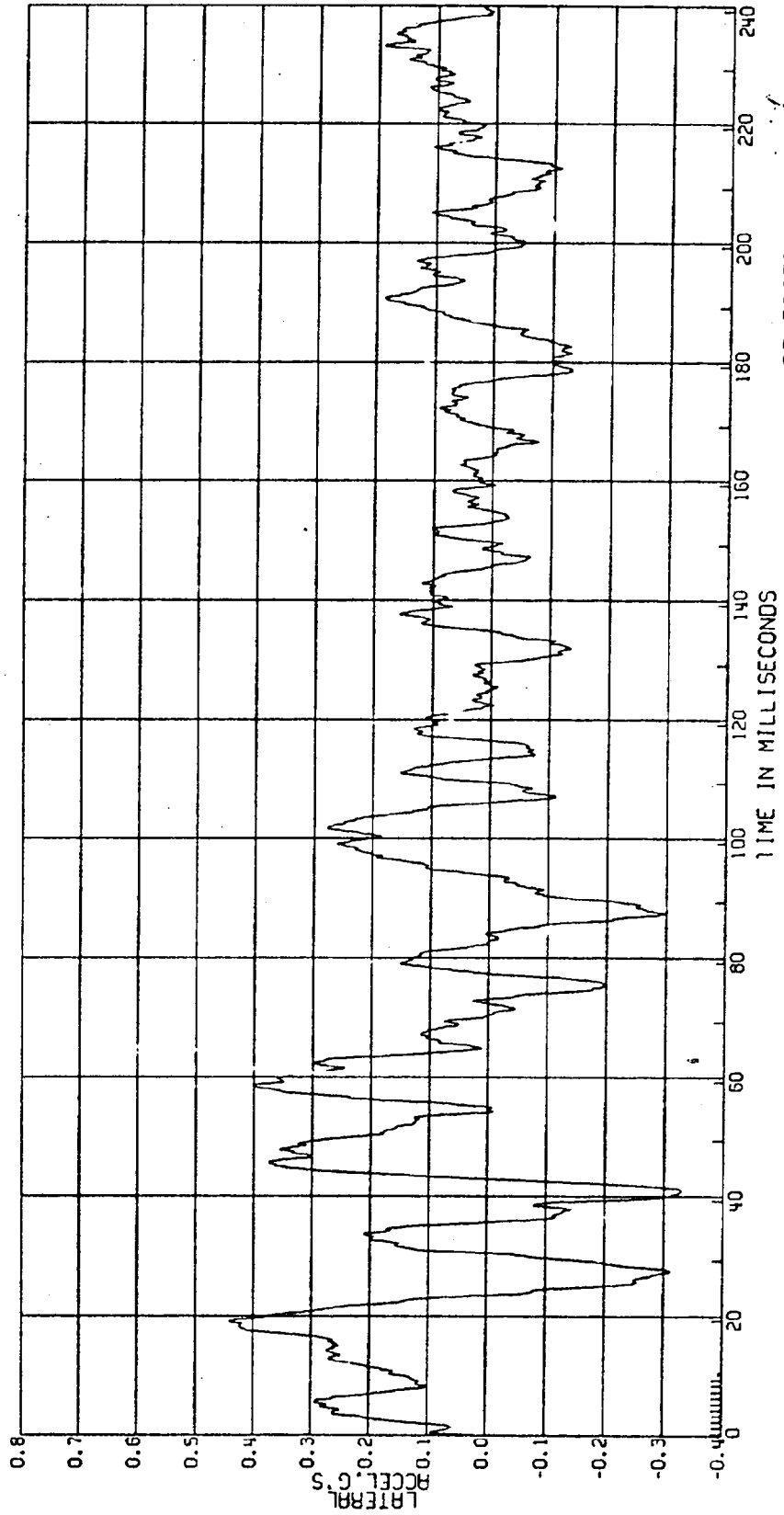
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FISHER BODY FACE A

STRIKING VEH KINEMATICS-AY2 ACCEL.

TEST DATE: 05-03-84

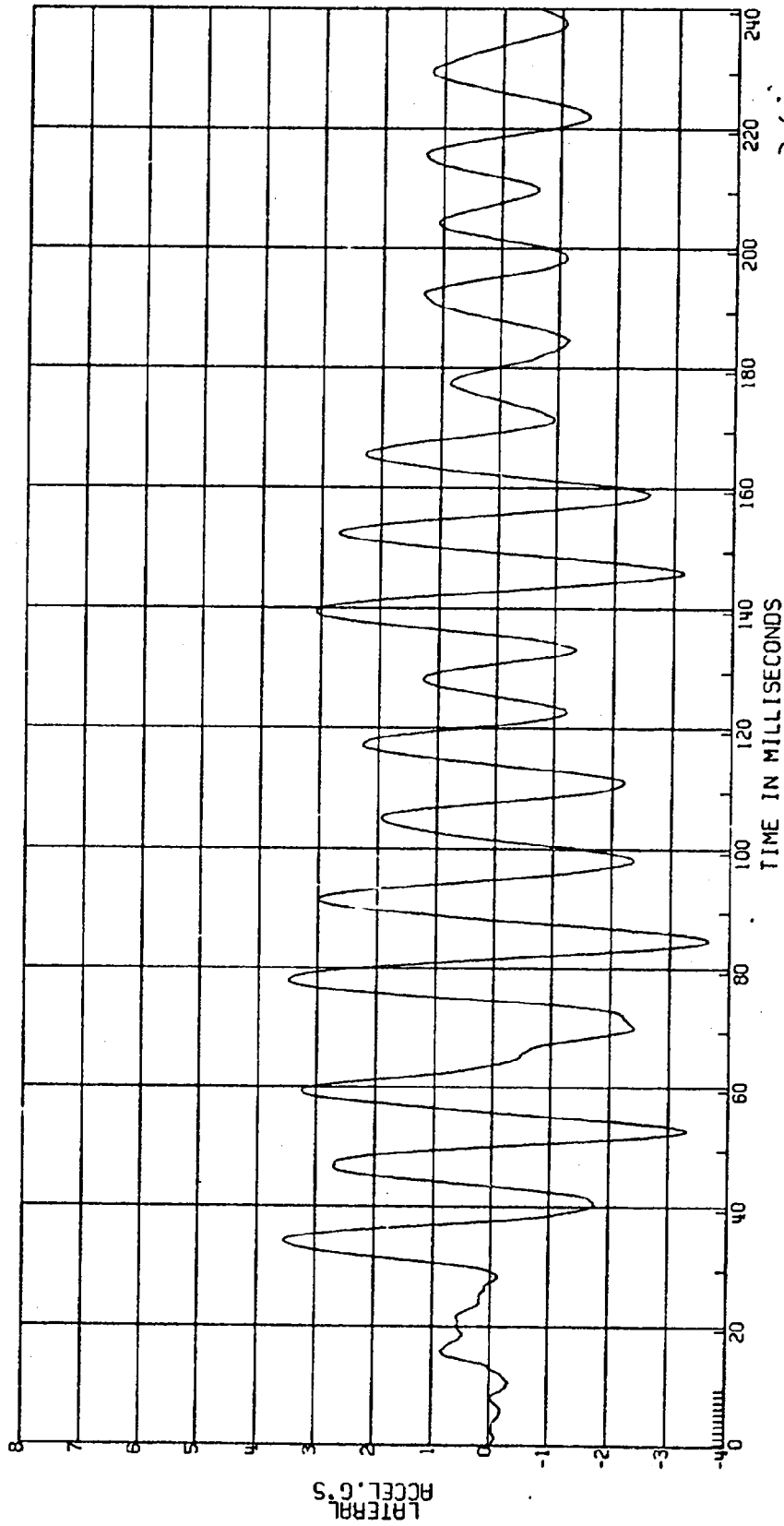
A-D DATA SAE CLASS 180



RELEASED BY: J. J. 7
11 PROCESSED 4 MY 84 18:50

C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR 41.8 KM/H FIGURE 47
STRIKING VEH KINEMATICS-AY3 ACCEL.
TEST DATE: 05-03-84



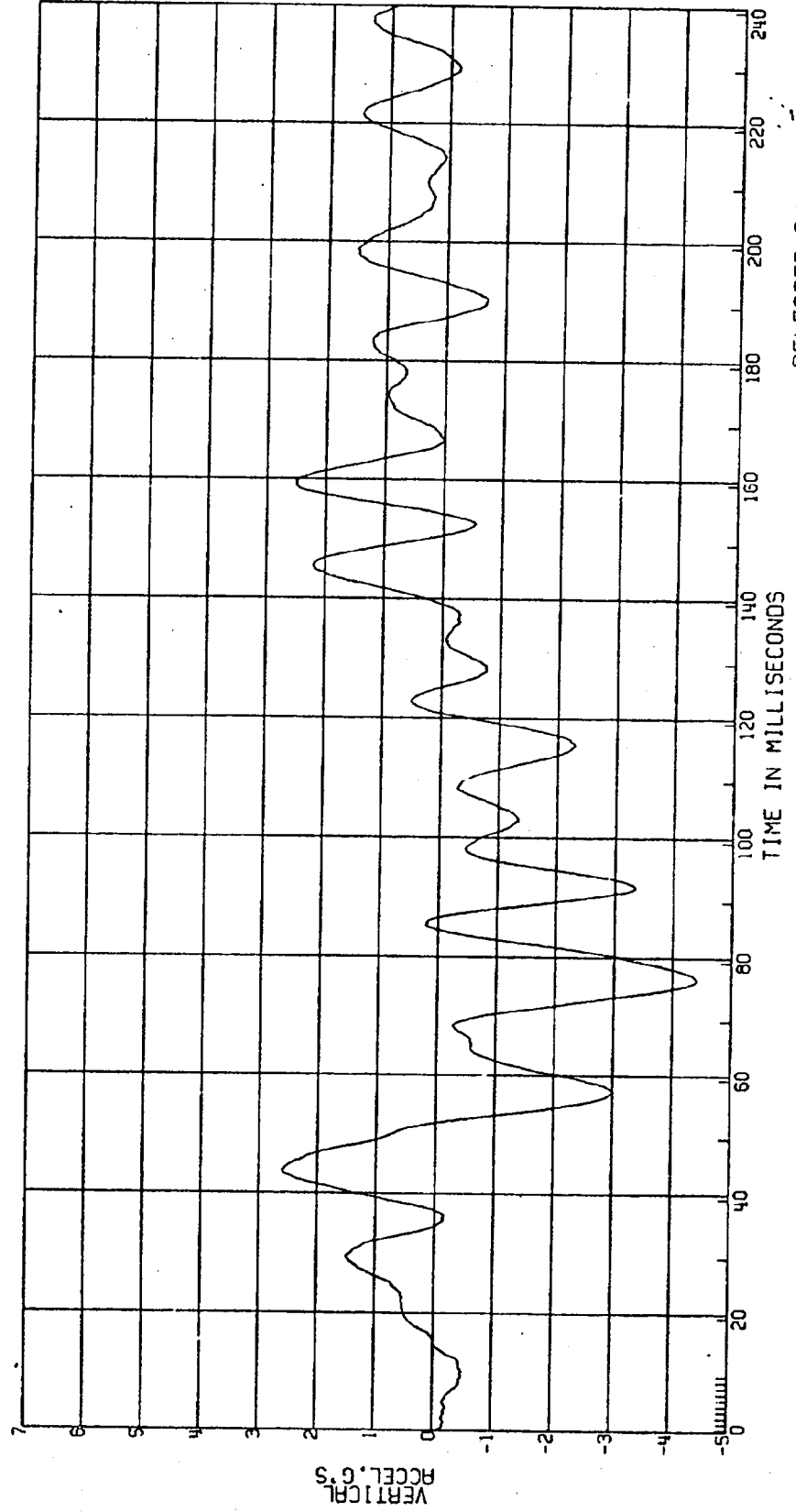
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12 PROCESSED 4 MT 84 18:50

C5953A BARRIER TO BARRIER
3865-448
FISHER BODY FACE A
A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 1/8

STRIKING VEH KINEMATICS-AZO ACCEL.

TEST DATE: 05-03-84



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C5953A BARRIER TO BARRIER

DEFORMABLE BARR TO LOAD CELL BARRIER 41.8 KM/H FIGURE 49

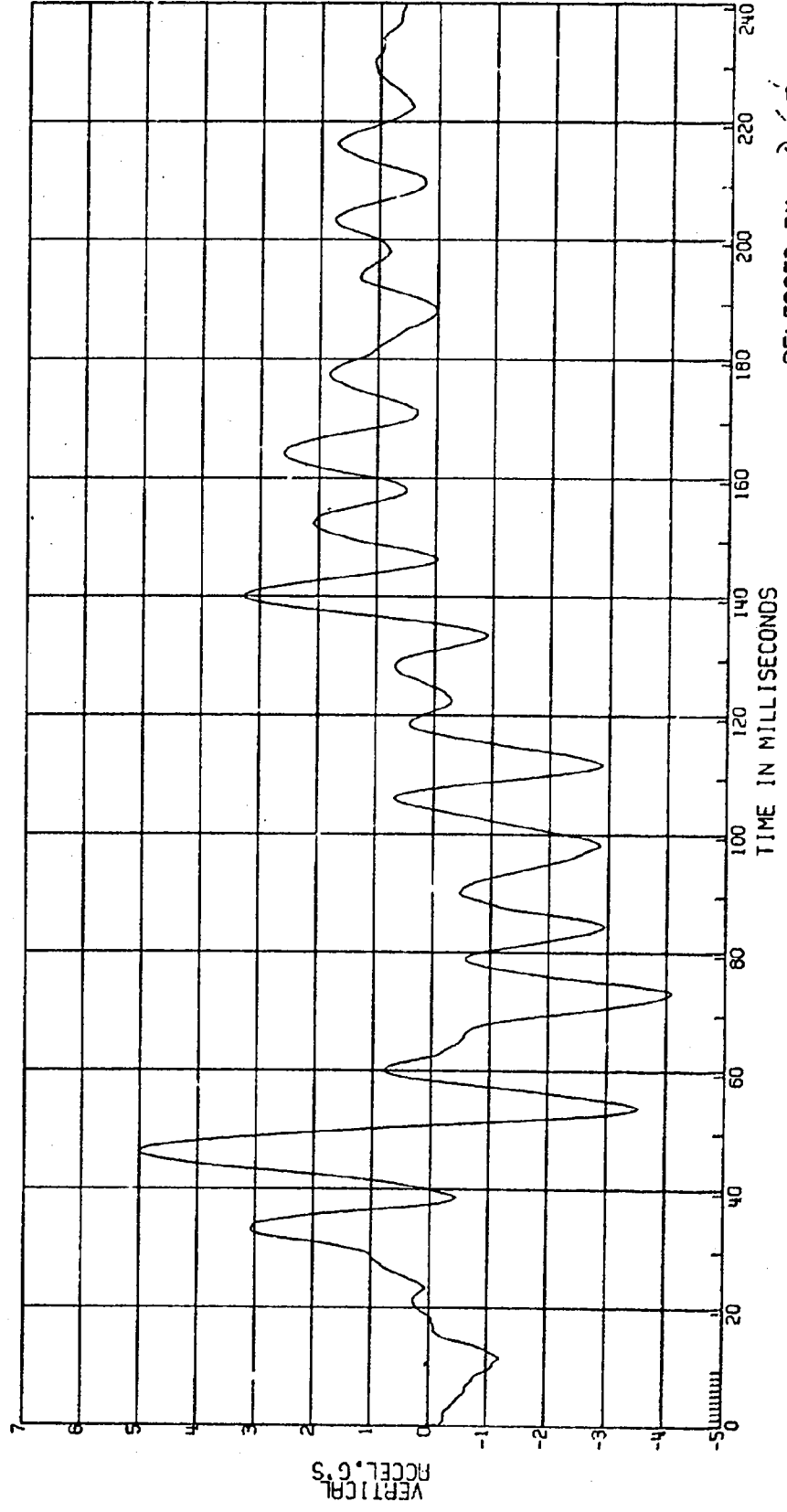
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FISHER BODY FACE A

STRIKING VEH KINEMATICS-AZ1 ACCEL.

TEST DATE: 05-03-84

A-D DATA SAE CLASS 180



RELEASED BY: *[Signature]*
14 PROCESSED 4 MT 84 18:51

C5953A BARRIER TO BARRIER

3865-448

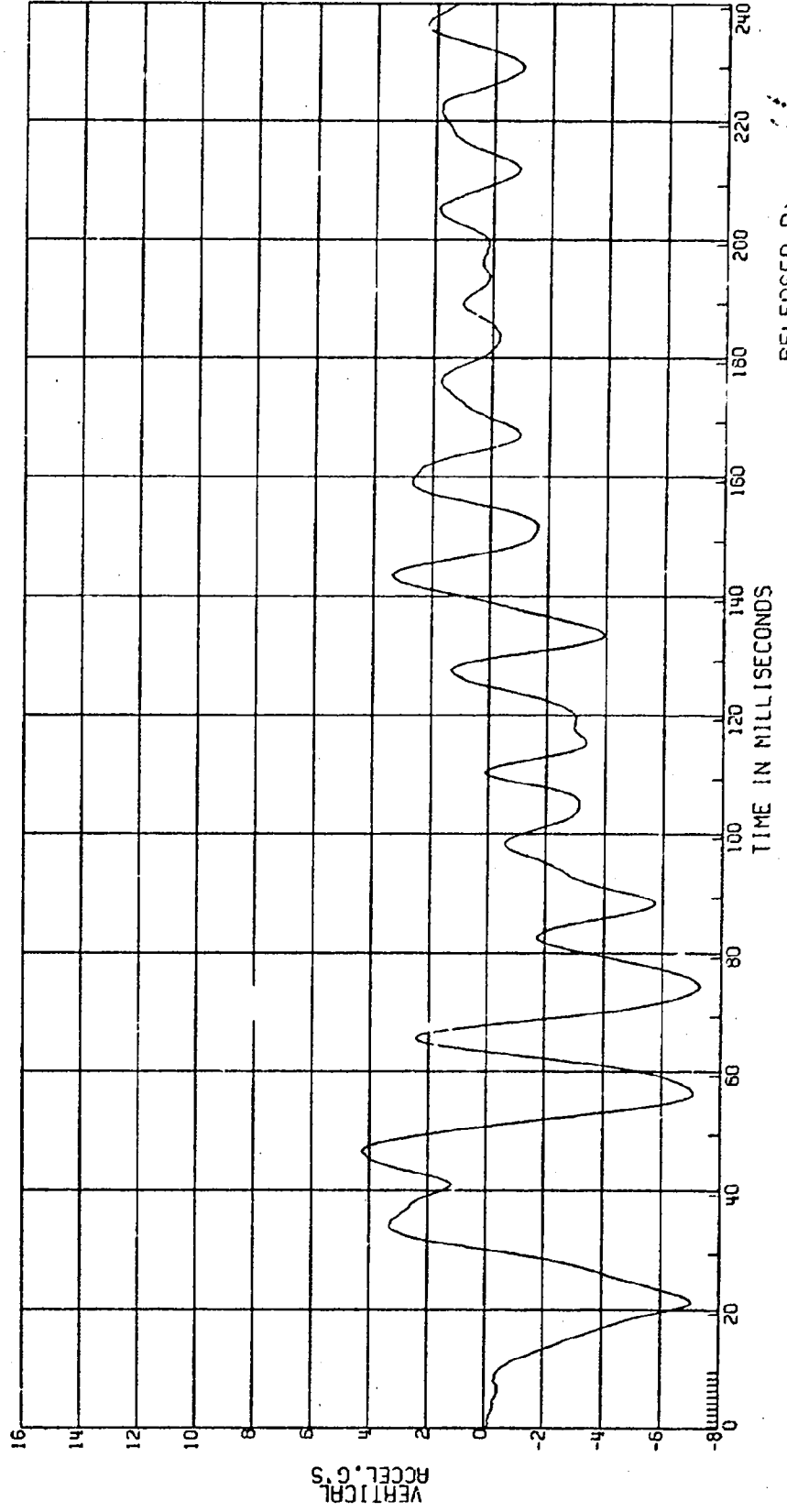
FISHER BODY FACE A

A-D DATA SAE CLASS 180

DEFORMABLE BARR TO LOAD CELL BARRIER41.8KM/H FIGURE 70

STRIKING VEH KINEMATICS-AZ2 ACCEL.

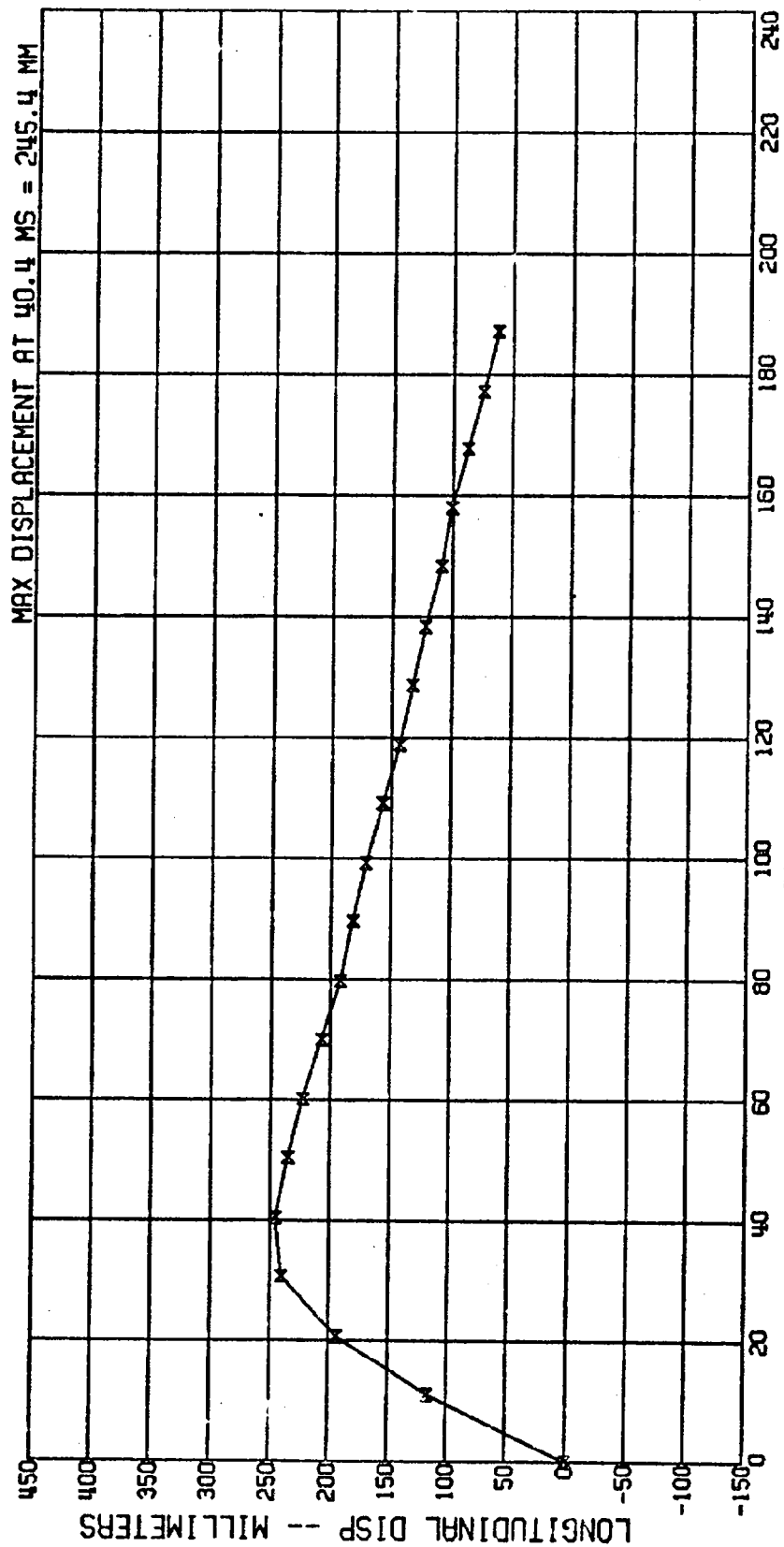
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15 PROCESSED W/MT 84 18:51

CS953 BARRIER TO BARRIER DEFORMABLE BARR TO LOAD CELL BARR 41.8 KM/H FIGURE 51
 3865-448
 FISHER BODY FACE A
 FILM DATA DRIVER SIDE TEST DATE: 05-03-84

NHTSA BARRIER RELATIVE TO LOAD CELL BARRIER



C5953 BARRIER TO BARRIER DEFORMABLE BARR TO LOAD CELL BARR 41.8 KM/H FIGURE 52

3865-448

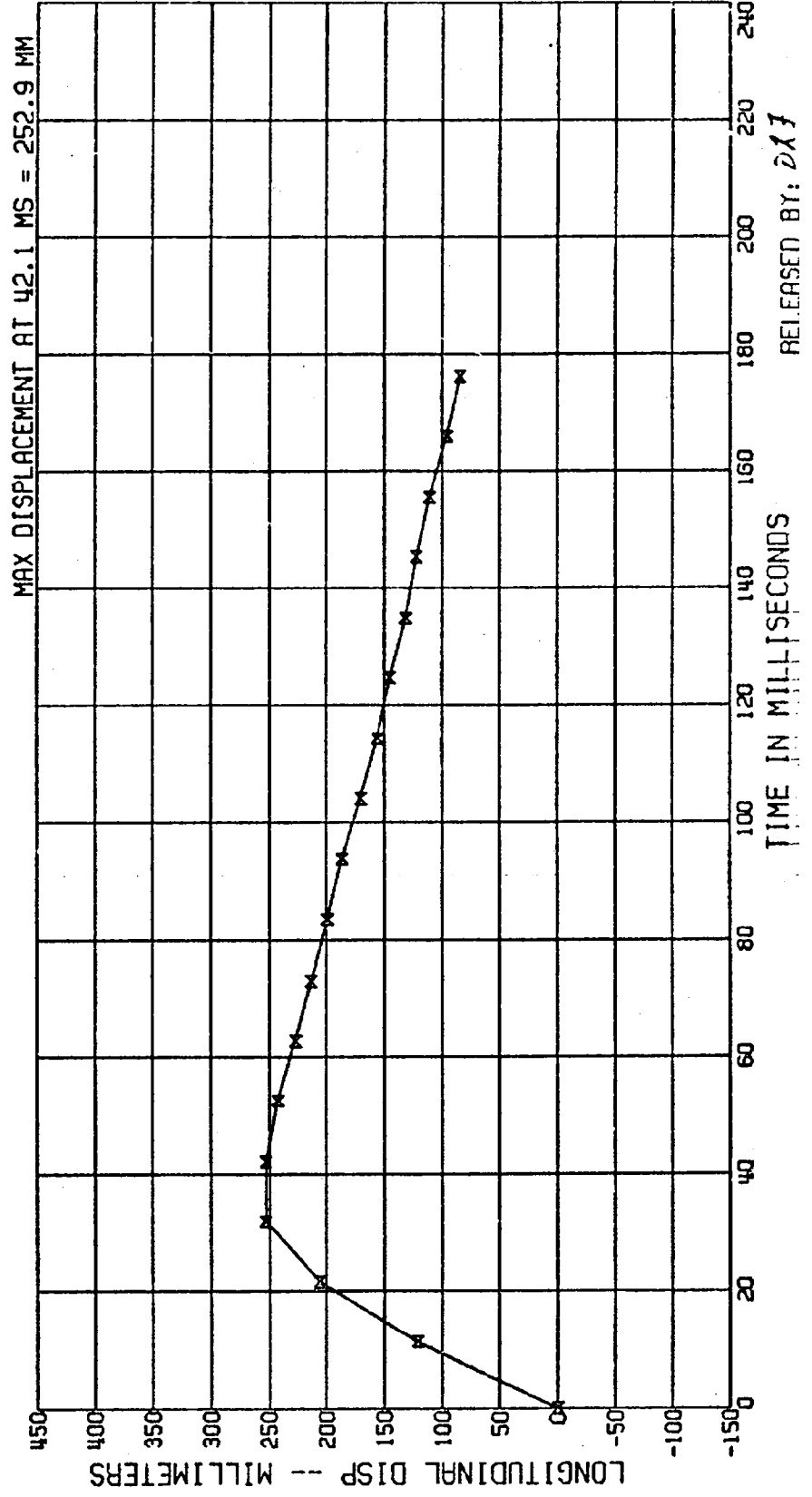
FISHER BODY FACE A

FILM DATA

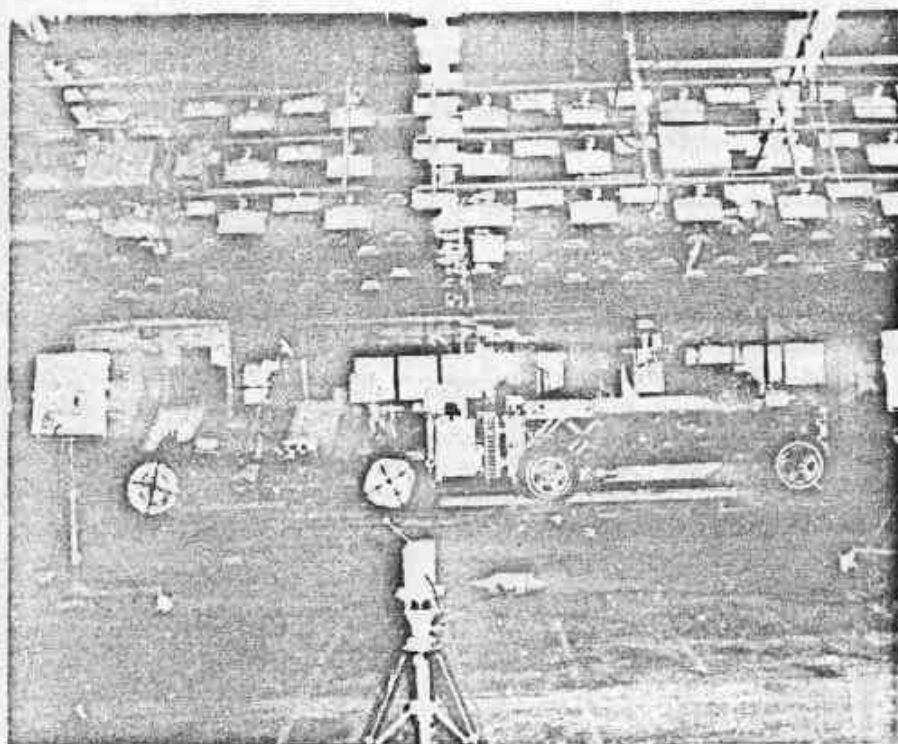
PASSENGER SIDE

TEST DATE: 05-03-84

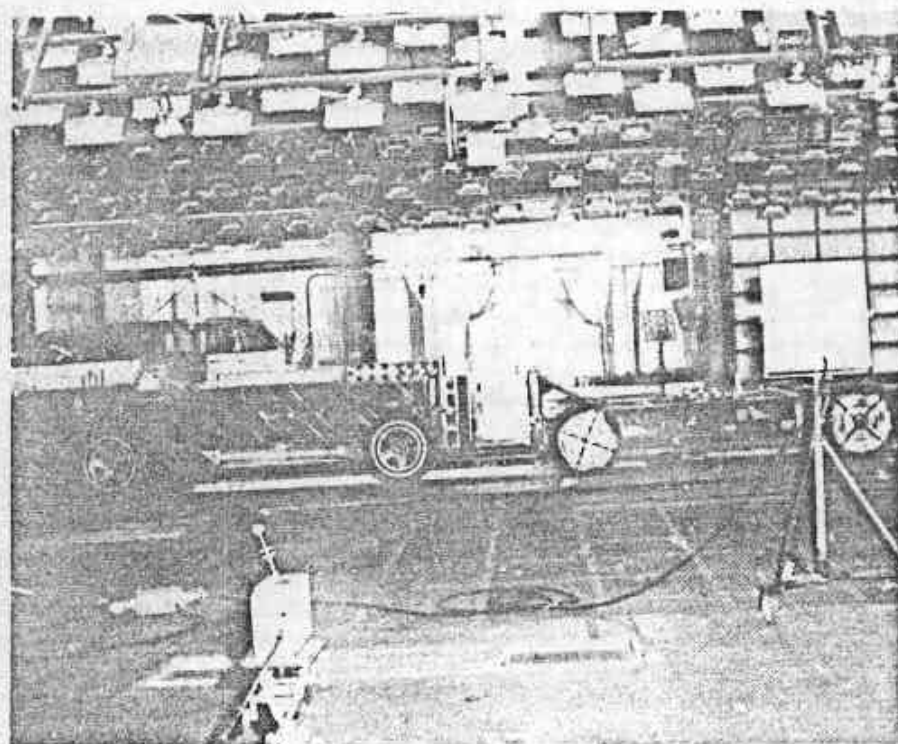
NHTSA BARRIER RELATIVE TO LOAD CELL BARRIER



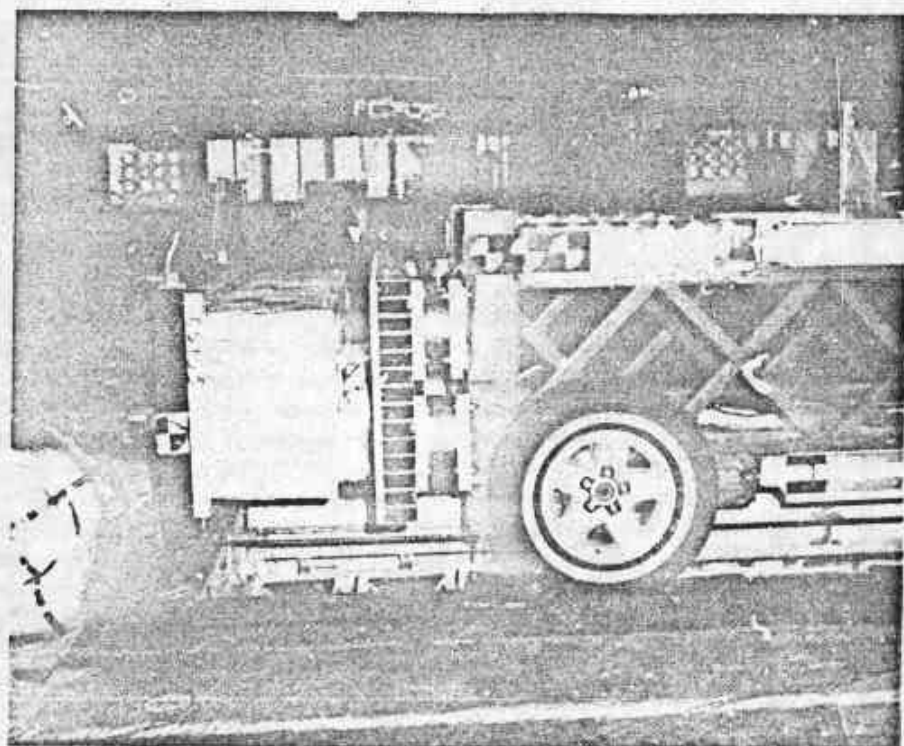
Document No.	Fig. No.
47148	53



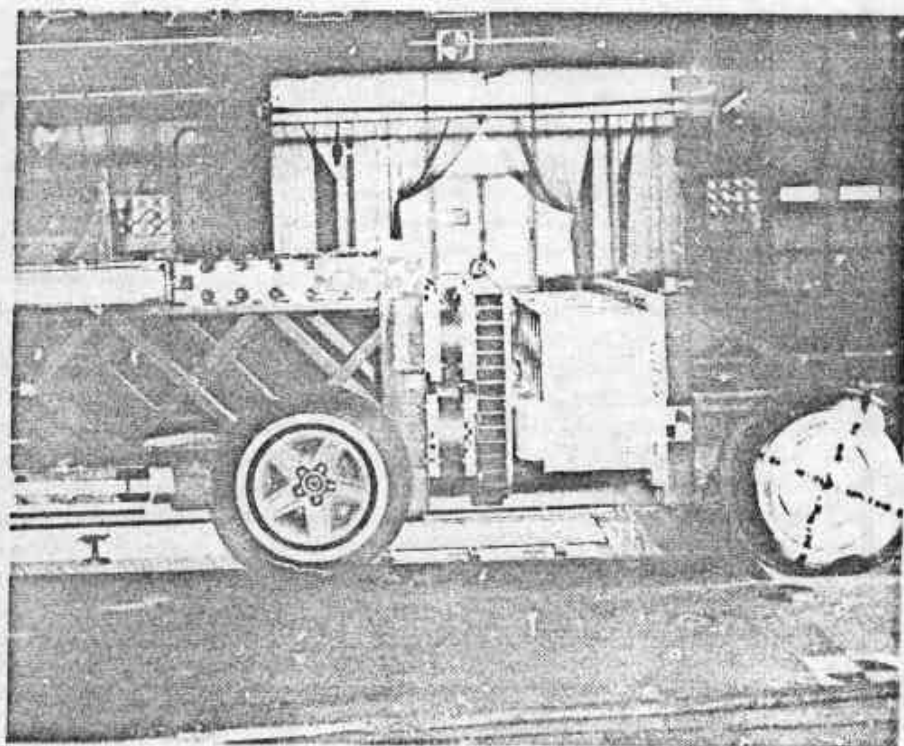
Document No.	Fig. No.
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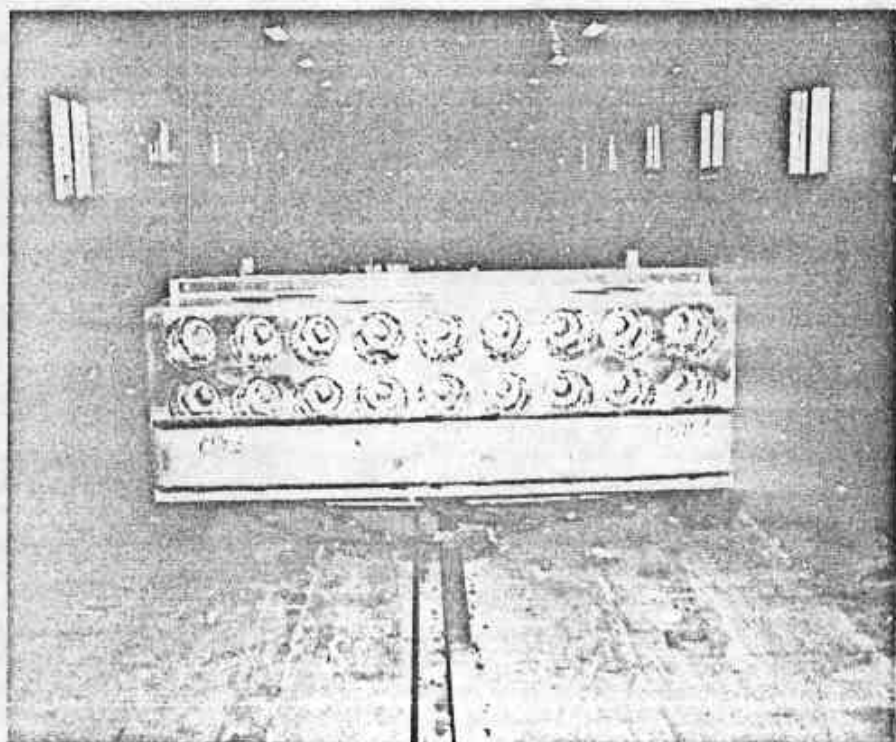
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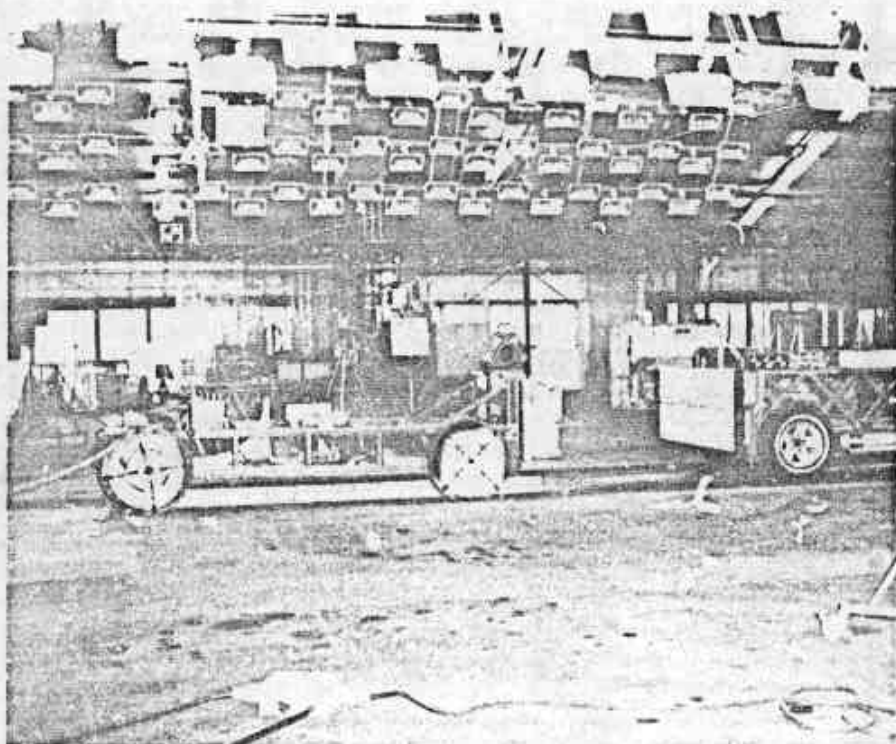
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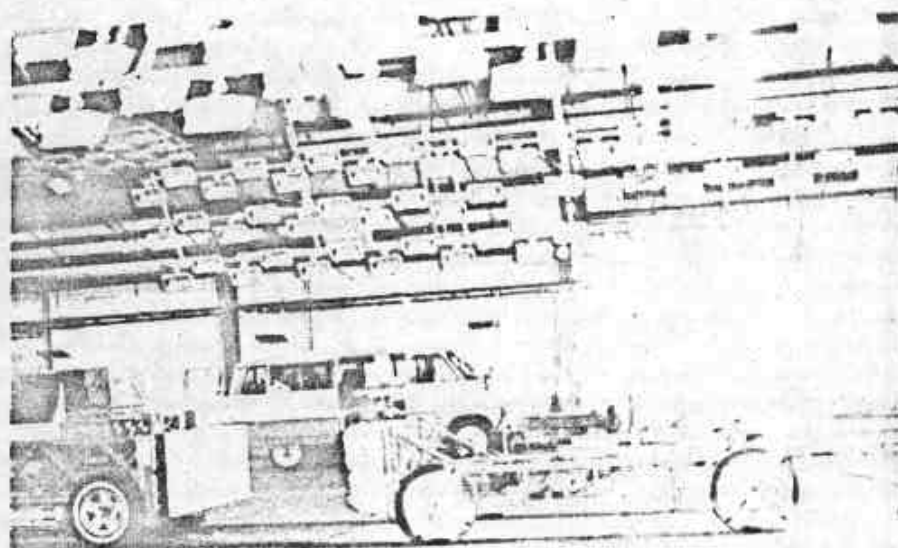


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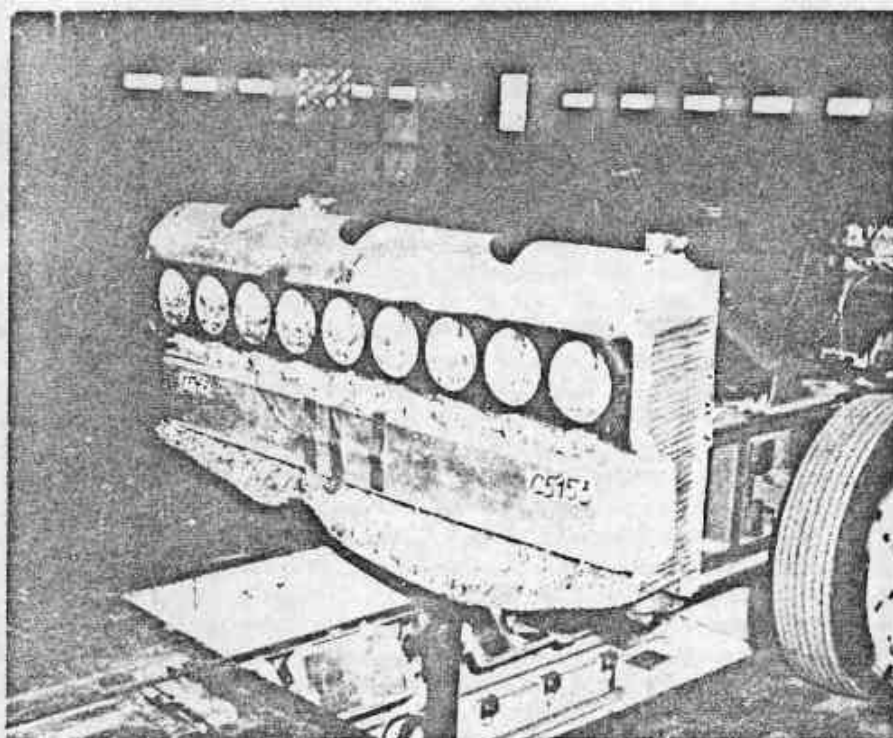


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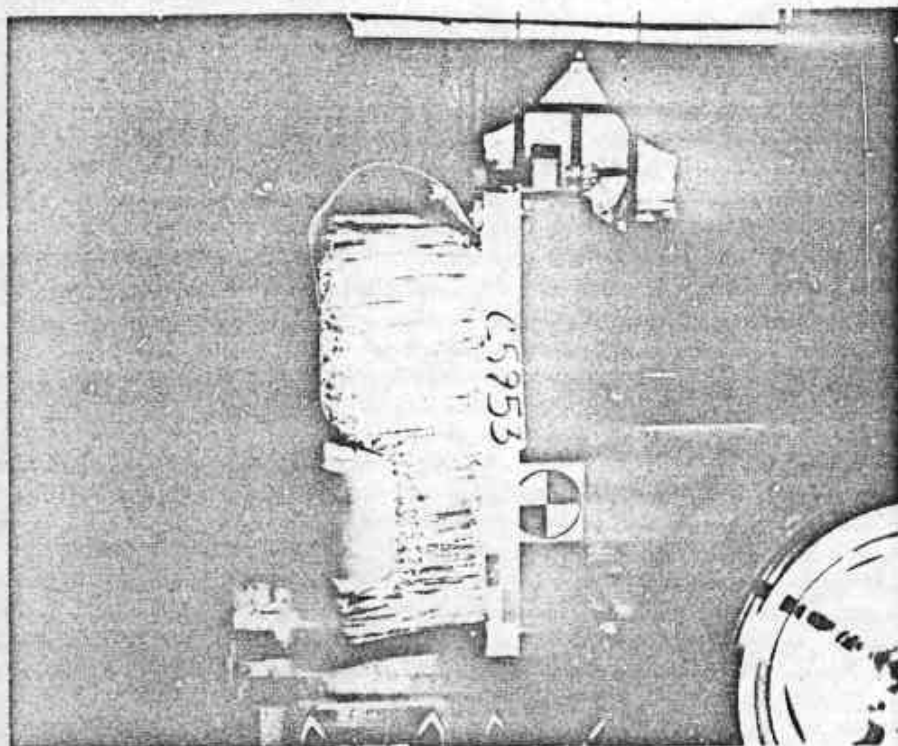


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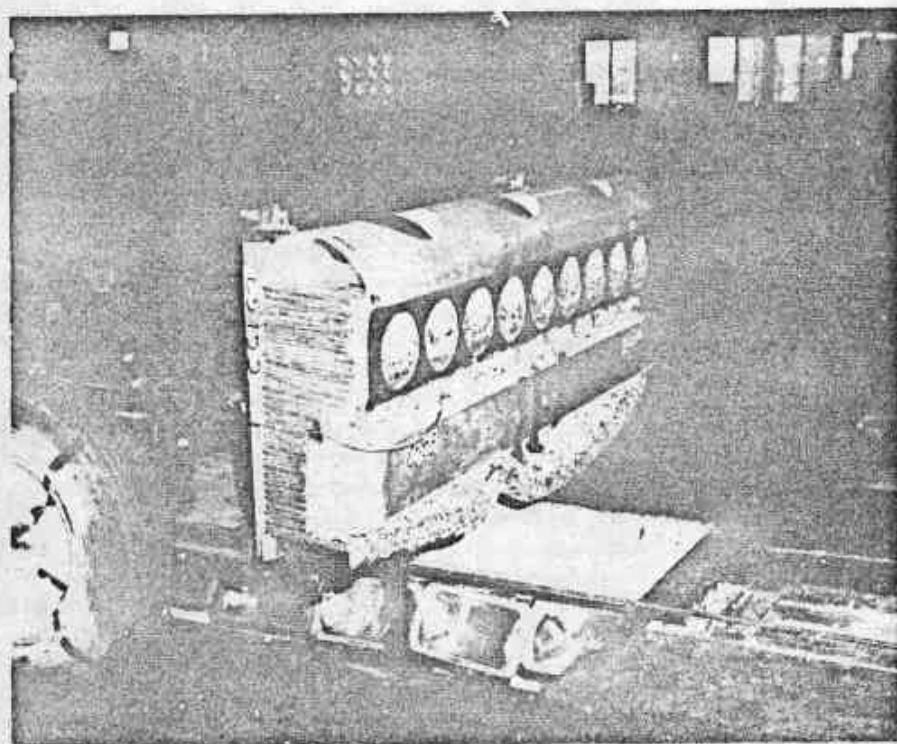


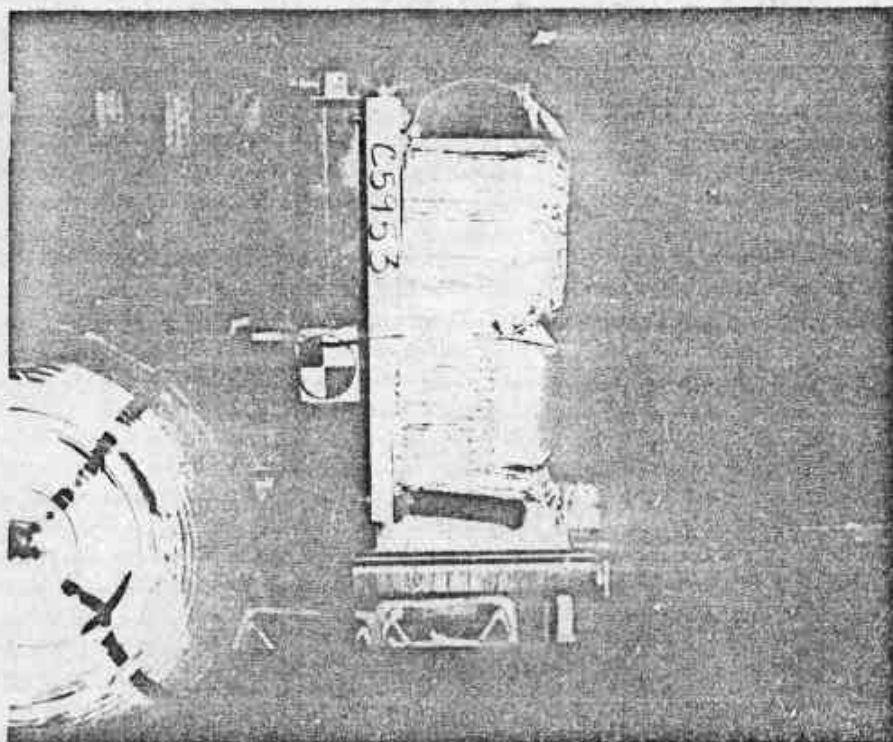
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47148	62





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