

**Vehicle Research and Test Center
1996 Chrysler Concorde 4-door
into a Frontal Load Cell Barrier
TRC Inc. Test Number: 040316-1**

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**Prepared for:
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Section 1.0

Purpose and Test Procedure

Purpose

This 35 mph frontal load cell barrier impact test was conducted for the National Highway Traffic Safety Administration (NHTSA) and Vehicle Research and Test Center (VRTC) by Transportation Research Center Inc. (TRC Inc.). The purpose of this test was to verify the performance of the 128-load cell barrier face in a 35 mph frontal impact mode.

Test Procedure

This test was conducted per VRTC instructions for a full frontal car to stationary barrier test. Data was obtained relative to FMVSS 208, "Occupant Crash Protection".

The test vehicle was instrumented with two (2) accelerometers to measure longitudinal axis accelerations; two (2) accelerometers to measure lateral axis accelerations; and two (2) accelerometers to measure vertical axis accelerations. The vehicle's specified impact velocity range was 55.5 to 57.1 km/h. The vehicle impacted a flat frontal barrier equipped with one hundred twenty eight (128) load cells.

The test vehicle was ballasted with the weight of two (2) Part 572B adult male anthropomorphic test devices (dummies) positioned in the left front and right front outboard designated seating positions.

The 134 data channels were digitally sampled and recorded at 12,500 samples per second and processed per sections 11.13 through 11.15 of the Laboratory Test Procedure.

The crash event was recorded by one (1) real-time panning motion picture camera and four (4) high-speed digital motion picture cameras operating at 1000 frames per second.

The vehicle data is summarized in Section 2.0. The vehicle and camera measurements are presented in Section 3.0. Appendix A contains the still photographic prints. Appendix B contains the dummy and vehicle data plots. Appendix C contains miscellaneous test information.

Section 2.0

Impact Test Summary

Test Results Summary

This 35 mph test was conducted by TRC Inc. on March 16, 2004.

The test vehicle, a 1996 Chrysler Concorde 4-door, was equipped with a 6-cylinder, 3.5 liter engine, automatic transmission, power steering, and power brakes. The vehicle's test weight was 1787.6 kg. The vehicle's fuel system contained 63.4 liters of Stoddard for the test. The vehicle's impact speed was 56.4 km/h. The vehicle's maximum static crush was 623 mm.

Data Acquisition Explanations

The vehicle's rear deck Y-axis acceleration data channel, RDKYG1, did not record any data during the test. The calculated resultant was also affected.

The load cell barrier row 7 column15 load cell channel, LC0715, did not record any data during the test.

Table 1 Crash Test Summary

Test type:	Frontal load cell barrier
Test date:	03/16/04
Test time:	9:42
Ambient temperature:	21° C
Vehicle:	1996 Chrysler Concorde 4-door
Vehicle test weight:	1787.6 kg
Impact angle: ¹	0°
Impact velocity: ²	Primary = 56.4 km/h Secondary = 56.3 km/h
Maximum static crush:	623 mm
Number of cameras:	
High-speed digital	4
Real-time	1

¹ With respect to tow track centerline.

² Speed trap measurement ($\pm .08$ km/h accuracy)

Table 2 Test Vehicle Information

Vehicle manufacturer:	Daimler Chrysler Corporation		
Make/model:	Chrysler/Concorde		
VIN:	1C3HD56F7TF137443		
Model year:	1996		
Body style:	4-door		
Color:	White		
Engine data:	Type:	V	
	Cylinders:	6	
	Displacement:	3.5 liters	
Transmission data:	<u>4</u> Speed, <u> </u> FWD,	<u> </u> Manual, <u> X </u> RWD,	<u> X </u> Automatic, <u> </u> 4WD
Date vehicle received:	3/15/2004		
Odometer reading:	49,456		
Dealer's name and address:	Vehicle supplied by VRTC		

Accessories:

Power steering	Yes	Automatic transmission	Yes
Power brakes	Yes	Automatic speed control	Yes
Power seats	Driver only	Tilting steering wheel	Yes
Power windows	Yes	Telescoping steering wheel	No
Tinted glass	Yes	Air conditioning	Yes
Radio	Yes	Anti-skid brake	Yes
Clock	Yes	Rear window defroster	Yes
Other	None		

Certification data from vehicle's label:

Vehicle manufactured by:	Daimler Chrysler Corporation	
Date of manufacture:	2/1996	
VIN:	1C3HD56F7TF137443	
GVWR:	4673 lbs. (2120 kg)	
GAWR: Front:	2673 lbs. (1213 kg)	
Rear:	2050 lbs. (930 kg)	

Table 2 Test Vehicle Information, Cont'd.

Tires on vehicle (mfr., line, size): Goodyear, Eagle GA, P225/60R16

Tire pressure with maximum
capacity vehicle load:

Front:	300 kPa
Rear:	300 kPa

Spare tire (mfr., line, size): Goodyear, Temp, T185/D15

Type of seats:	Front:	Bucket
	Rear:	Bench

Type of front seat backs: Power adjustable

Maximum width: 1907 mm

Wheelbase: 2880 mm

Location of "Recommended Tire Pressure" label:

Left front door

Data from vehicle's "Recommended Tire Pressure" label:

Recommended tire size: P205/70R15

Recommended cold

tire pressure:	Front:	32 psi (220 kPa)
tire pressure:	Rear:	32 psi (220 kPa)

Seating capacity:	Front:	2
	Rear:	3
	Total:	5

Vehicle capacity weight: 865 kg

Test vehicle attitude:

Delivered attitude:	LF	740 mm;	RF	739 mm;	LR	760 mm;	RR	760 mm
Fully loaded attitude	LF	720 mm;	RF	720 mm;	LR	728 mm;	RR	730 mm
Pre-test attitude:	LF	735 mm;	RF	730 mm;	LR	715 mm;	RR	725 mm
Post-test attitude:	LF	780 mm;	RF	871 mm;	LR	712 mm;	RR	726 mm

Table 2 Test Vehicle Information, Cont'd.

Weight of test vehicle as received (with maximum fluids):

Right front	504.5	kg	Right rear	285.0	kg
Left front	530.5	kg	Left rear	275.5	kg
Total front weight	1035.0	kg	(64.9 % of total vehicle weight)		
Total rear weight	560.5	kg	(35.1 % of total vehicle weight)		
Total delivered weight	1595.5	kg			

Calculation of test vehicle's target test weight:

GVWR = Gross Vehicle Weight Rating = 2120 kg

UDW = Unloaded Delivered Weight = 1595.5 kg

VCW = Vehicle Capacity Weight = 865 kg

DSC = Designated Seating Capacity = 5

RCLW¹ = Rated Cargo and Luggage Weight = 52 kg

Target test weight = UDW + RCLW + (No. of Part 572B dummies X 74 kg)

Target test weight = 1595.5 + 52.0 + (2) 74.0 = 1795.5 kg

Weight of test vehicle with required dummies and 44.1 kg of cargo weight:

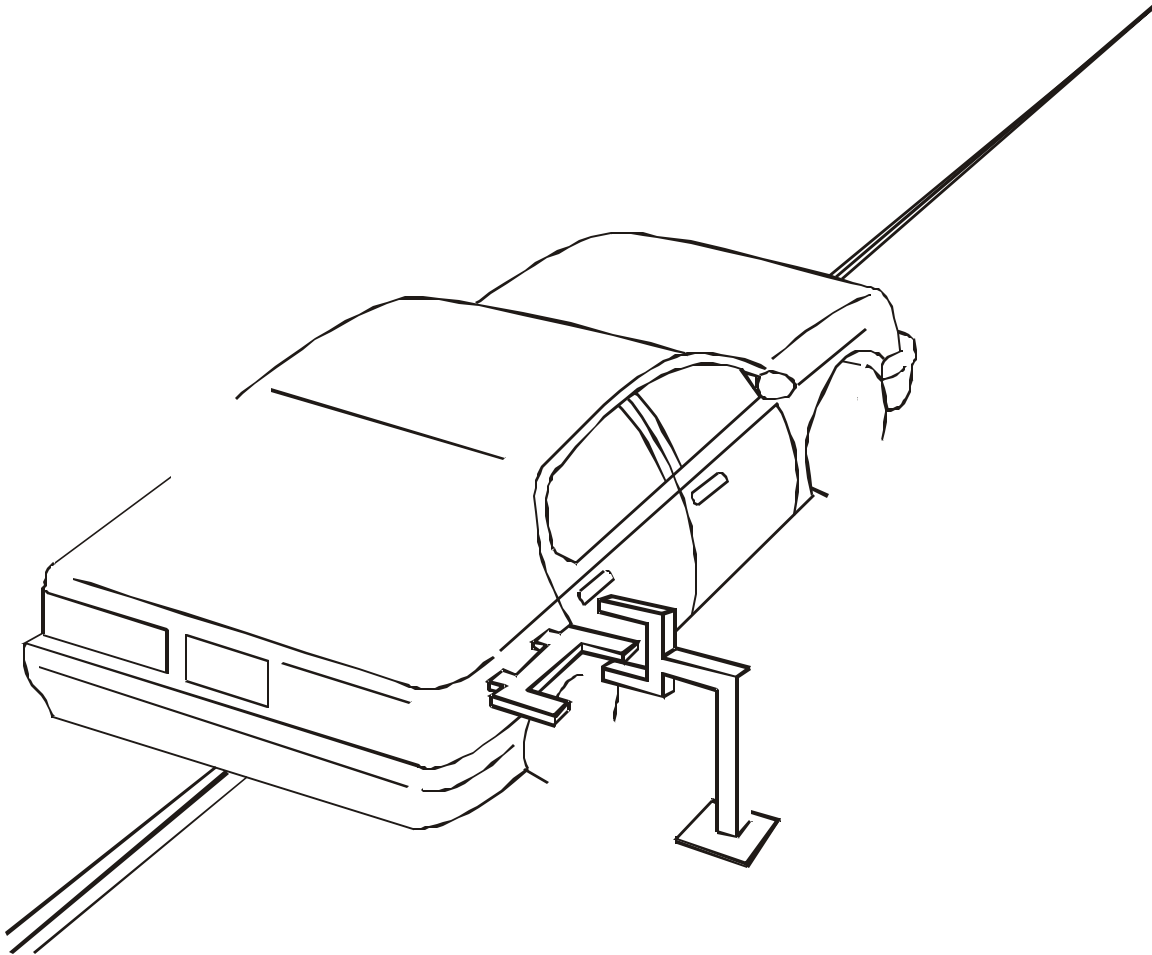
Right front	520.4	kg	Right rear	355.8	kg
Left front	558.4	kg	Left rear	353.0	kg
Total front weight	1078.8	kg	(60.3% of total vehicle weight)		
Total rear weight	708.8	kg	(39.7% of total vehicle weight)		
Total test weight	1787.6	kg			

Weight of ballast secured in vehicle: 158.8 kg on floor of rear passenger
compartment

Components removed to meet target test weight: None

¹ RCLW = Vehicle Capacity Weight - (Designated Seating Capacity x 68.0 kg).

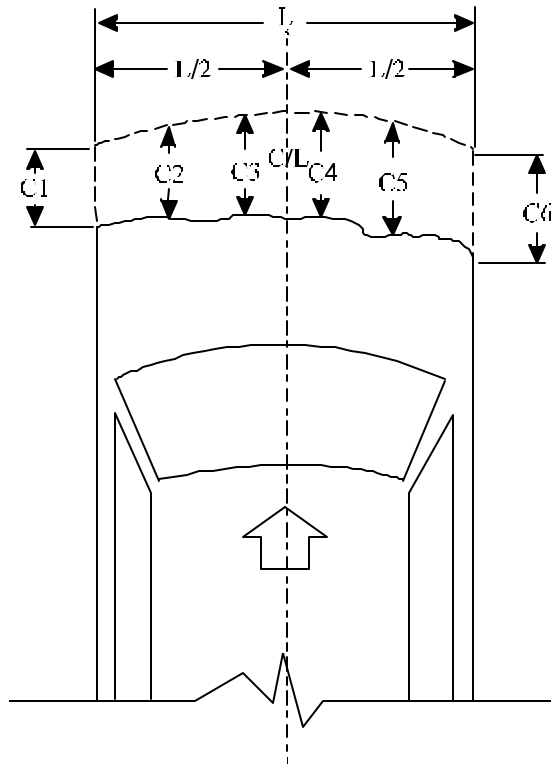
Figure 1 Impact Velocity Measurement System



The final vane clears the final emitter/receiver pair 50 mm before impact.

The vanes have 610 mm spacing.

Figure 2 Vehicle Crush



Notes: L is pre-test length of contact surface.
C1 through C6 are spaced equally apart.
CL is vehicle centerline.

Vehicle: 1996 Chrysler Concorde 4-door

	Pre-test	Post-test	Crush
L	1524 mm		
C1	4900 mm	4481 mm	419 mm
C2	5040 mm	4520 mm	520 mm
C3	5097 mm	4508 mm	589 mm
C4	5099 mm	4508 mm	591 mm
C5	5040 mm	4528 mm	512 mm
C6	4901 mm	4490 mm	411 mm
CL	5115 mm	4492 mm	623 mm

Figure 3 Vehicle Accelerometer Placement

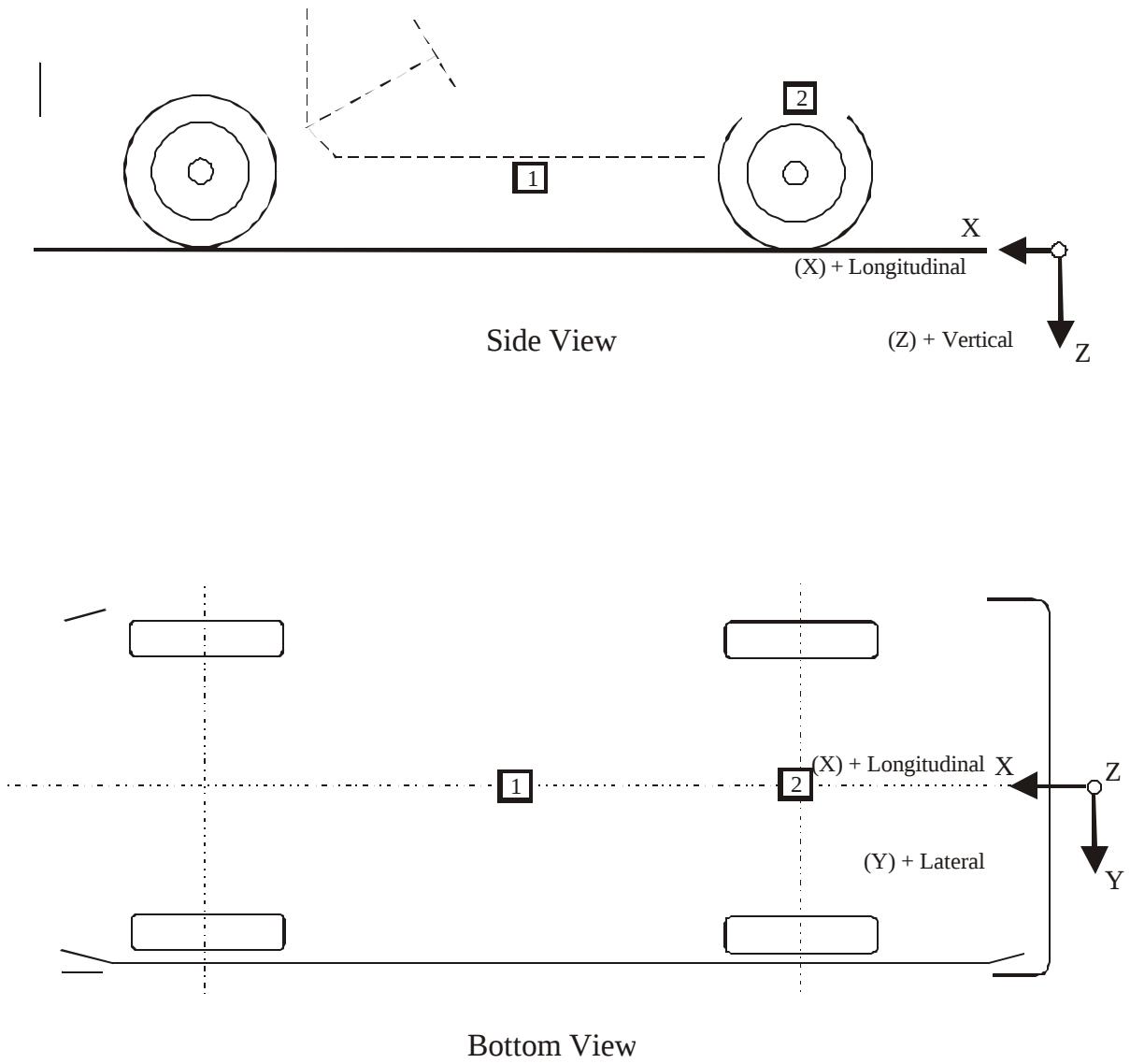


Table 3 Vehicle Accelerometer Locations and Data Summary

Accel. No.	Location	Coordinates (millimeters)			Positive Direction		Negative Direction	
		X*	Y*	Z*	Max. (g)	Time (ms)	Max. (g)	Time (ms)
1	Vehicle Center of Gravity	2845	240	-494				
	Longitudinal X				25.7	47.4	-66.7	42.4
	Lateral Y				40.0	53.3	-56.4	66.5
	Vertical Z				93.8	54.3	-89.0	71.7
	Resultant R				100.9	54.0		
2	Rear Deck	240	10	-455				
	Longitudinal X				37.5	112.6	-63.2	32.6
	Lateral ¹ Y							
	Vertical Z				7.7	65.8	-8.1	98.8
	Resultant ¹ R							

*Reference: X = Rear Bumper (+ Forward)

Y = Vehicle Centerline (+ To Right)

Z = Ground Level (+ Down)

All measurements accurate to within ± 3 mm.

¹ See Data Acquisition Explanations.

Table 4 Post-Impact Data

Door opening:

	<u>Left</u>	<u>Right</u>
Front	Easy	Easy
Rear	Easy	Easy

Seat back failure:

Left	None
Right	None

Seat track shift:

Left	None
Right	None

Glazing damage:

Cracked at lower A-pillar

Other notable impact effects:

None

Figure 4 Load Cell Barrier Configuration

133	039	085	059	116	013	119	107	095	103	129	058	126	108	025	070
027	111	072	106	056	114	068	157	049	131	018	084	062	078	064	021
036	052	010	034	026	022	030	016	035	092	043	076	001	087	096	015
090	065	079	055	031	054	050	089	130	082	083	123	032	121	009	037
040	007	071	094	067	086	118	101	073	047	099	080	097	048	061	005
125	004	051	042	011	117	066	045	077	029	100	102	091	012	017	081
120	063	124	093	046	122	002	060	105	020	069	041	112	074	128	075
053	008	028	038	003	014	024	006	132	023	033	019	113	098	104	088

Track C/L

128 LOAD CELLS
8 ROWS
16 COLUMNS

Table 5 Load Cell Barrier Data Summary

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 1	1	162	6.9	191	12.0
	2	247	6.6	214	11.8
	3	340	17.4	288	11.7
	4	384	5.5	567	11.8
	5	407	5.1	1,303	28.2
	6	552	5.0	726	12.0
	7	578	4.9	4,241	51.0
	8	515	4.7	36,559	41.9
	9	480	4.7	23,767	39.1
	10	437	4.6	35,039	72.8
	11	414	4.6	932	40.7
	12	333	4.6	1,058	34.3
	13	267	4.9	1,188	19.0
	14	232	5.2	226	19.9
	15	106	37.4	53	296.6
	16	130	37.5	17	300.3

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 2	1	178	7.1	241	12.3
	2	253	6.8	1,409	27.4
	3	264	6.2	2,382	21.4
	4	364	5.9	1,829	15.2
	5	128	0.2	8,538	17.1
	6	388	4.5	5,417	50.1
	7	457	4.3	7,383	33.2
	8	243	222.4	8,049	49.2
	9	367	17.3	17,828	34.9
	10	456	4.0	9,345	71.8
	11	318	3.5	10,005	85.3
	12	213	2.7	9,611	85.6
	13	292	3.5	3,451	15.8
	14	182	4.8	1,656	19.2
	15	115	4.8	2,622	28.9
	16	133	21.9	24	8.6

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 3	1	210	7.6	292	12.7
	2	255	7.2	2,751	29.8
	3	289	6.7	2,231	24.7
	4	447	5.5	15,953	36.2
	5	423	3.3	60,750	17.8
	6	342	1.0	44,069	27.0
	7	380	-1.3	53,677	28.9
	8	293	-2.6	70,006	32.7
	9	321	-2.8	67,603	33.1
	10	330	-2.0	58,841	32.1
	11	249	-1.1	42,877	31.0
	12	306	1.1	37,961	16.7
	13	352	3.5	46,282	16.8
	14	186	4.6	5,822	28.1
	15	112	4.6	6,563	84.9
	16	68	4.5	111	40.4

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 4	1	232	18.3	341	13.1
	2	243	7.8	2,325	38.4
	3	365	7.4	4,366	36.8
	4	381	6.8	3,778	36.8
	5	279	4.2	2,400	28.3
	6	207	2.6	11,544	28.1
	7	507	17.5	13,726	28.5
	8	281	17.0	12,342	33.1
	9	598	91.0	21,344	33.6
	10	227	17.4	13,452	32.7
	11	128	1.1	27,595	30.2
	12	210	2.6	11,050	29.0
	13	215	4.2	4,037	16.5
	14	135	4.2	3,231	18.6
	15	100	3.9	10,424	38.6
	16	79	13.3	91	8.4

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 5	1	267	18.9	351	13.4
	2	324	18.7	5,846	47.4
	3	471	18.6	23,610	39.8
	4	330	7.0	5,108	22.8
	5	416	6.5	3,803	20.0
	6	475	6.2	15,833	30.0
	7	527	5.8	5,000	33.7
	8	438	5.3	5,231	33.6
	9	401	5.0	9,236	32.7
	10	347	4.7	6,208	33.8
	11	290	4.6	10,966	30.2
	12	227	4.2	7,490	29.8
	13	170	4.2	3,441	19.2
	14	124	4.2	2,781	22.0
	15	141	13.4	22,970	39.5
	16	48	4.1	197	38.2

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 6	1	372	19.1	285	13.4
	2	377	19.0	412	13.5
	3	466	18.9	425	13.7
	4	629	18.7	952	29.9
	5	510	18.6	2,224	25.0
	6	389	17.7	3,137	26.2
	7	334	5.7	2,857	33.8
	8	283	5.4	3,000	21.0
	9	291	4.8	4,832	21.0
	10	230	4.6	4,421	30.2
	11	177	4.1	3,922	27.4
	12	144	3.9	3,508	24.0
	13	229	31.1	2,665	24.7
	14	86	4.0	1,443	26.7
	15	60	13.4	1,204	84.0
	16	137	13.8	135	37.6

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 7	1	215	19.4	370	13.6
	2	542	19.4	214	13.8
	3	462	19.1	593	37.4
	4	502	19.0	5,793	37.0
	5	485	19.0	9,098	35.2
	6	506	18.9	3,559	37.1
	7	430	18.9	1,549	37.0
	8	414	19.0	3,256	37.5
	9	234	19.0	1,450	37.5
	10	218	19.1	1,768	71.8
	11	155	4.6	445	49.6
	12	112	4.4	2,887	38.2
	13	451	43.1	11,896	35.9
	14	417	42.8	6,616	36.6
	15	0	-20.0	0.0	-20.0
	16	114	32.9	203	37.6

Table 5 Load Cell Barrier Data Summary, Cont'd.

Location	Column	Positive Direction		Negative Direction	
		Max. (N)	Time (ms)	Max. (N)	Time (ms)
Load Cell Row 8	1	304	19.8	140	13.7
	2	450	19.8	143	14.4
	3	530	19.6	281	14.3
	4	376	19.4	475	14.3
	5	531	19.4	410	14.6
	6	452	19.4	479	14.6
	7	411	19.4	539	14.5
	8	283	19.4	1,263	87.9
	9	246	19.6	746	72.6
	10	119	4.9	488	37.2
	11	97	4.6	315	37.1
	12	43	31.8	287	37.1
	13	163	-0.4	315	37.1
	14	81	42.2	283	37.3
	15	180	42.6	185	37.5
	16	123	14.2	241	37.5

Section 3.0

Vehicle and Camera Measurements

Table 6 Fuel System Data

Vehicle year/make/ model/body style:	1996/Chrysler/Concorde/4-door
Fuel system capacity:	68.1 liters (from owner's manual)
Usable capacity:	68.1 liters
Test volume range:	62.7 liters to 64.0 liters (92% to 94% of usable)
Actual test volume:	63.4 liters
Test fluid type:	Stoddard
Specific gravity:	0.764
Kinematic viscosity:	0.99 centistoke
Test fluid color:	Purple
Did electric fuel pump operate with ignition switch "on" and the engine not operating?	No
Details of fuel system:	The fuel tank is located under the rear seat area. The fuel filler neck runs through the right rear wheel well. The fuel filler cap is located on the right rear quarter panel. The fuel lines run along the inside of the right frame rail.

Figure 5 Pre-Test And Post-Test Measurement Points

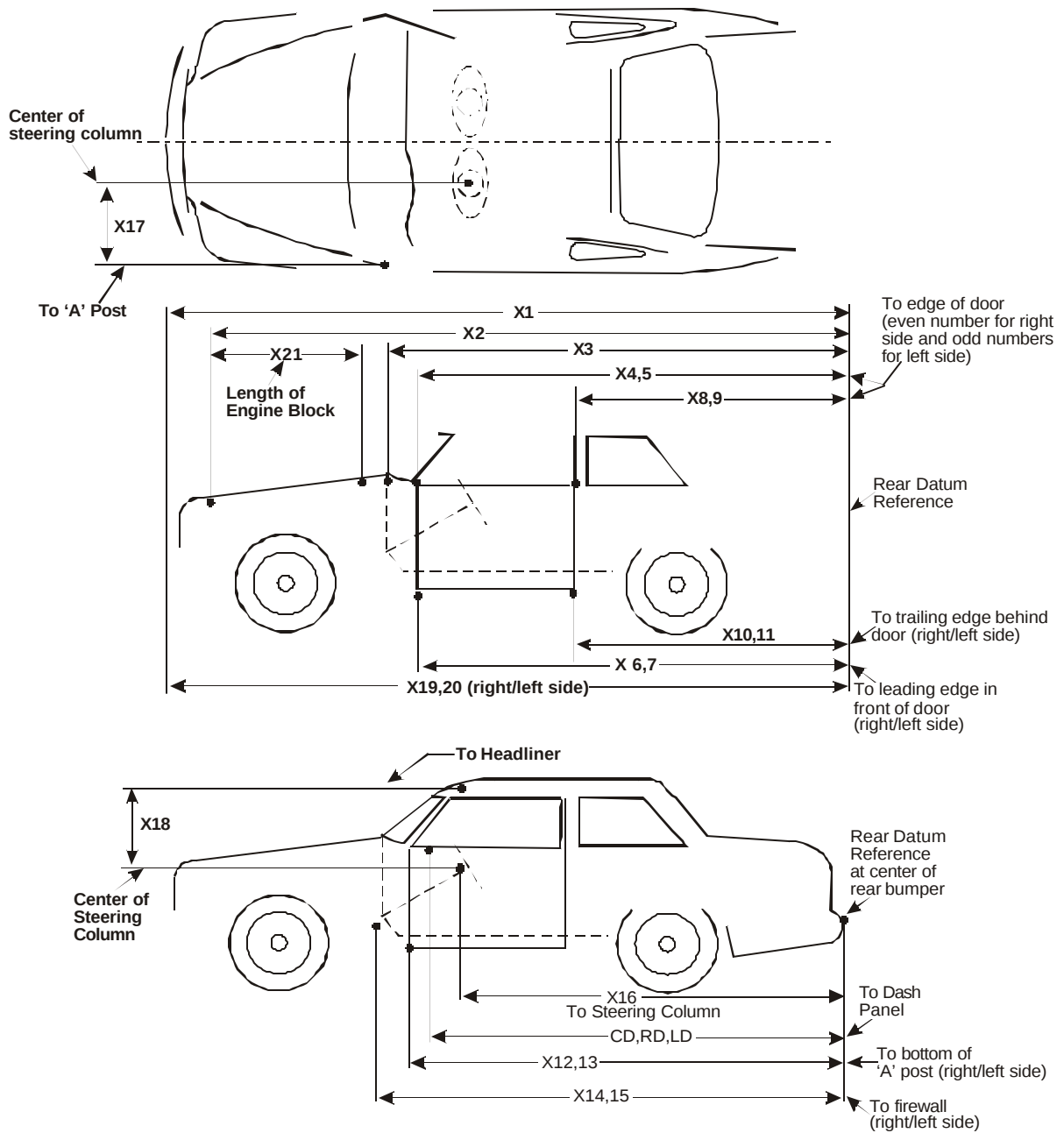


Table 7 Impacted Vehicle Measurements

Vehicle Make/Model: 1996 Chrysler Concorde 4-door

Test Number: 040316-1

No.	Type of measurement	Pre-Test	Post-Test	Difference
X1	Total Length of Vehicle at Centerline	5115	4492	623
X2	Rear Surface of Vehicle to Front of Engine Block	4540	4245	295
X3	Rear Surface of Vehicle to Firewall	4035		
X4	Rear Surface of Vehicle to Upper Leading Edge of Right Door	3485	3488	-3
X5	Rear Surface of Vehicle to Upper Leading Edge of Left Door	3488	3483	5
X6	Rear Surface of Vehicle to Lower Leading Edge of Right Door	3428	3425	3
X7	Rear Surface of Vehicle to Lower Leading Edge of Left Door	3435	3437	-2
X8	Rear Surface of Vehicle to Upper Trailing Edge of Right Door	2420	2422	-2
X9	Rear Surface of Vehicle to Upper Trailing Edge of Left Door	2420	2417	3
X10	Rear Surface of Vehicle to Lower Trailing Edge of Right Door	2420	2413	7
X11	Rear Surface of Vehicle to Lower Trailing Edge of Left Door	2425	2431	-6
X12	Rear Surface of Vehicle to Bottom of " A " Post on Right Side	3425	3425	0
X13	Rear Surface of Vehicle to Bottom of " A " Post on Left Side	3430	3429	1
X14	Rear Surface of Vehicle to Firewall-Right Side	4050	N/A ¹	N/A ¹
X15	Rear Surface of Vehicle to Firewall-Left Side	4050	N/A ¹	N/A ¹
X16	Rear Surface of Vehicle to Steering Wheel Center	2975	2940	35
X17	Center of Steering Column to " A " Post	315	270	45
X18	Center of Steering Column to Headliner	370	390	-20
X19	Rear Surface of Vehicle to Right Side of Front Bumper	4901	4490	411
X20	Rear Surface of Vehicle to Left Side of Front Bumper	4900	4481	419
X21	Length of Engine Block	500	500	0

All measurements are in millimeters.

¹ Measurement point could not be located post-test.

Table 8 Additional Requested Measurements

Type of measurement	
Height of the lowest edge of the bottom row of load cells	127 mm
Height of lowest structure on test vehicle	175 mm
Mid-hood height of test vehicle	845 mm
Height of test vehicle hood 2 feet rearward of front bumper	835 mm

Figure 6 Camera Positions

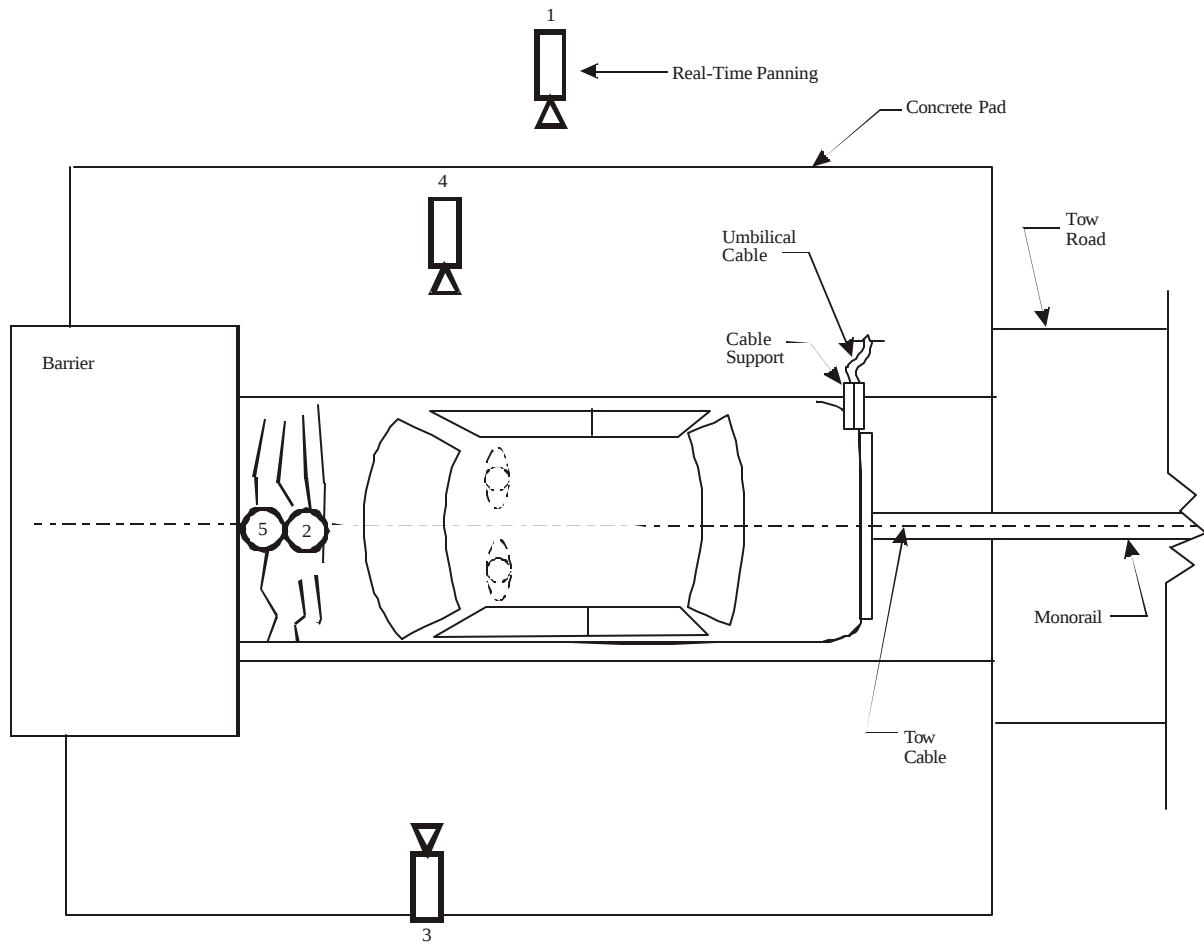


Table 9 Camera Information

Camera Number	Location	Type	Lens (mm)	Speed (frames/s)	Purpose of Camera Data
1	Real time panning	Bolex	Zoom	24	Vehicle dynamics
2	Overhead tight	Visario	50	1000	Vehicle crush
3	Left wide	Visario	25	1000	Vehicle dynamics
4	Right wide	Visario	25	1000	Vehicle dynamics
5	Underbody tight	Visario	35	1000	Vehicle crush

Appendix A

Photographs



Figure A-1 Pre-Test Front View



Figure A-2 Post-Test Front View



Figure A-3 Pre-Test Overhead View

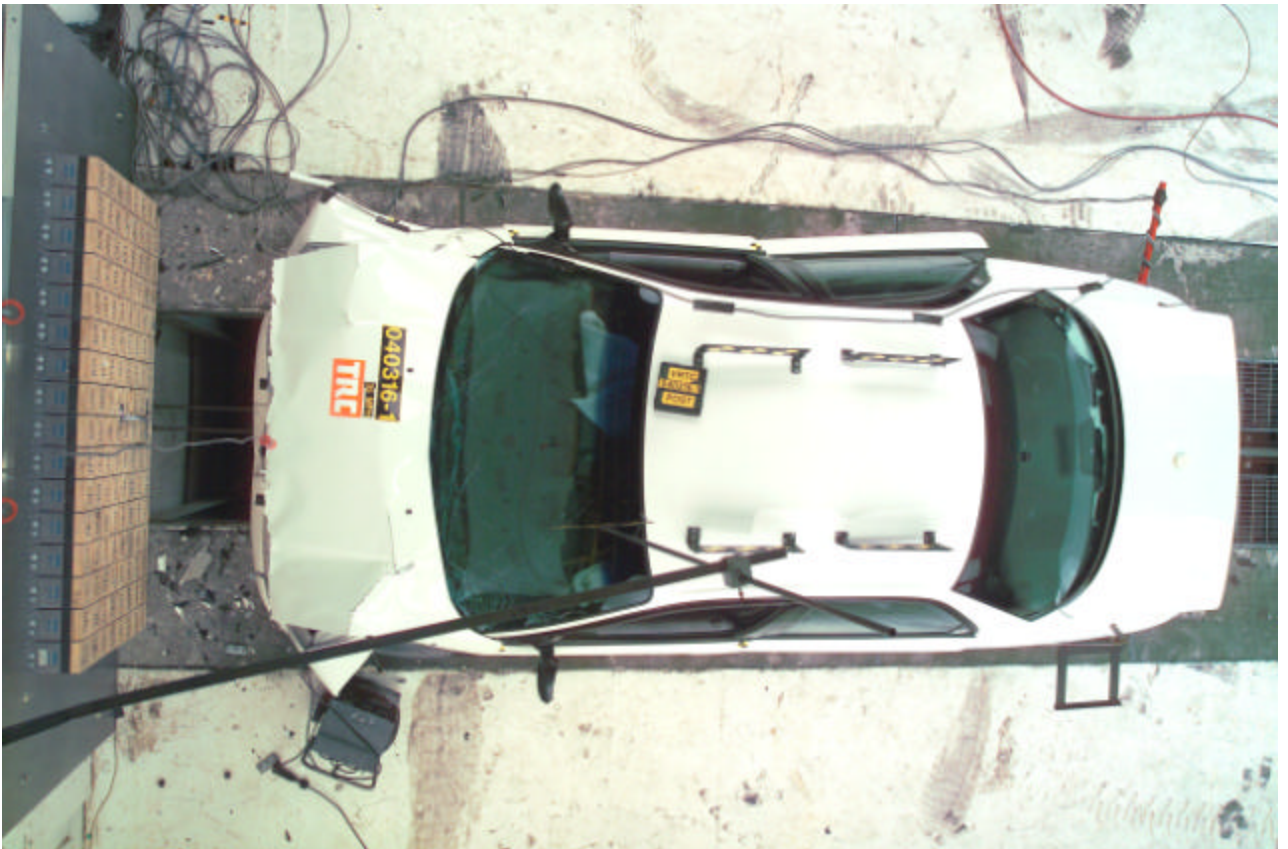


Figure A-4 Post-Test Overhead View

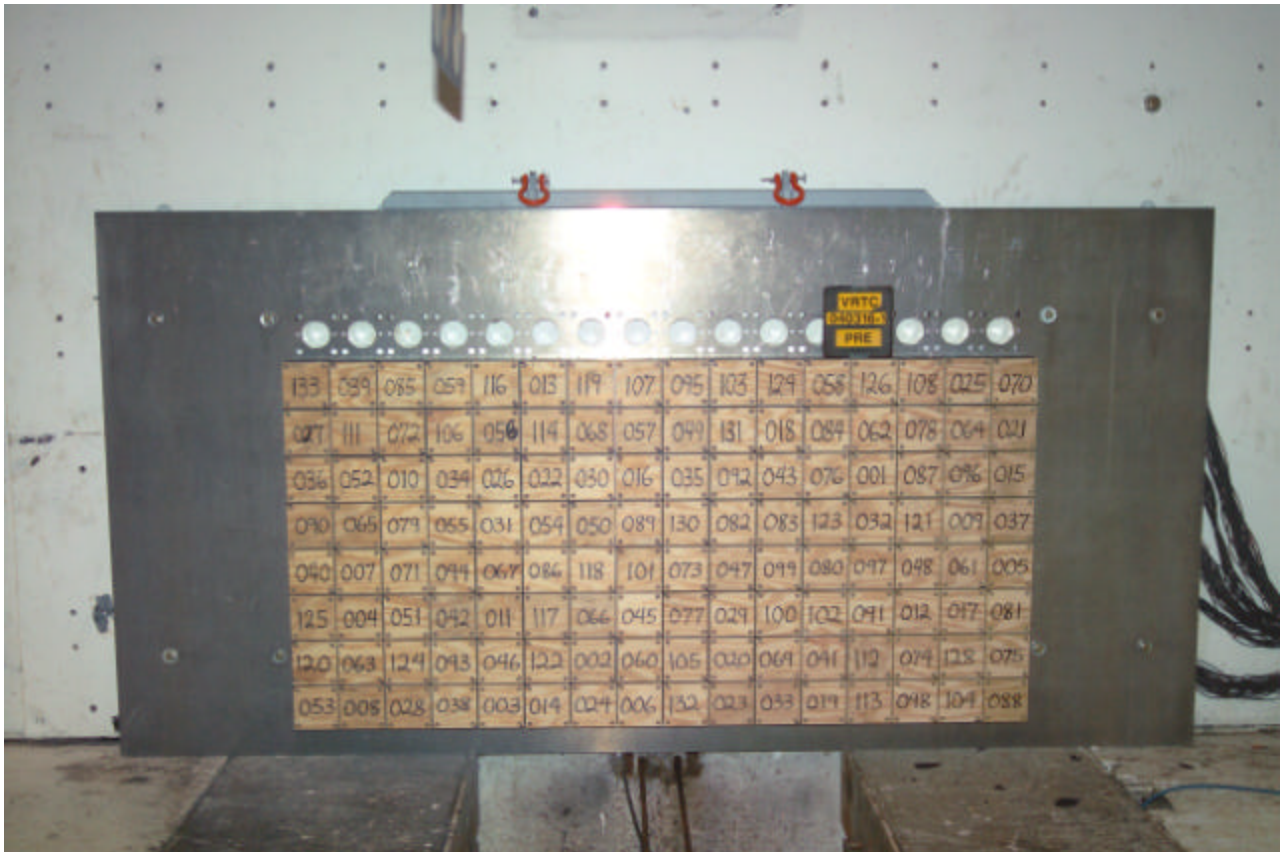


Figure A-5 Pre-Test Load Cell Barrier View

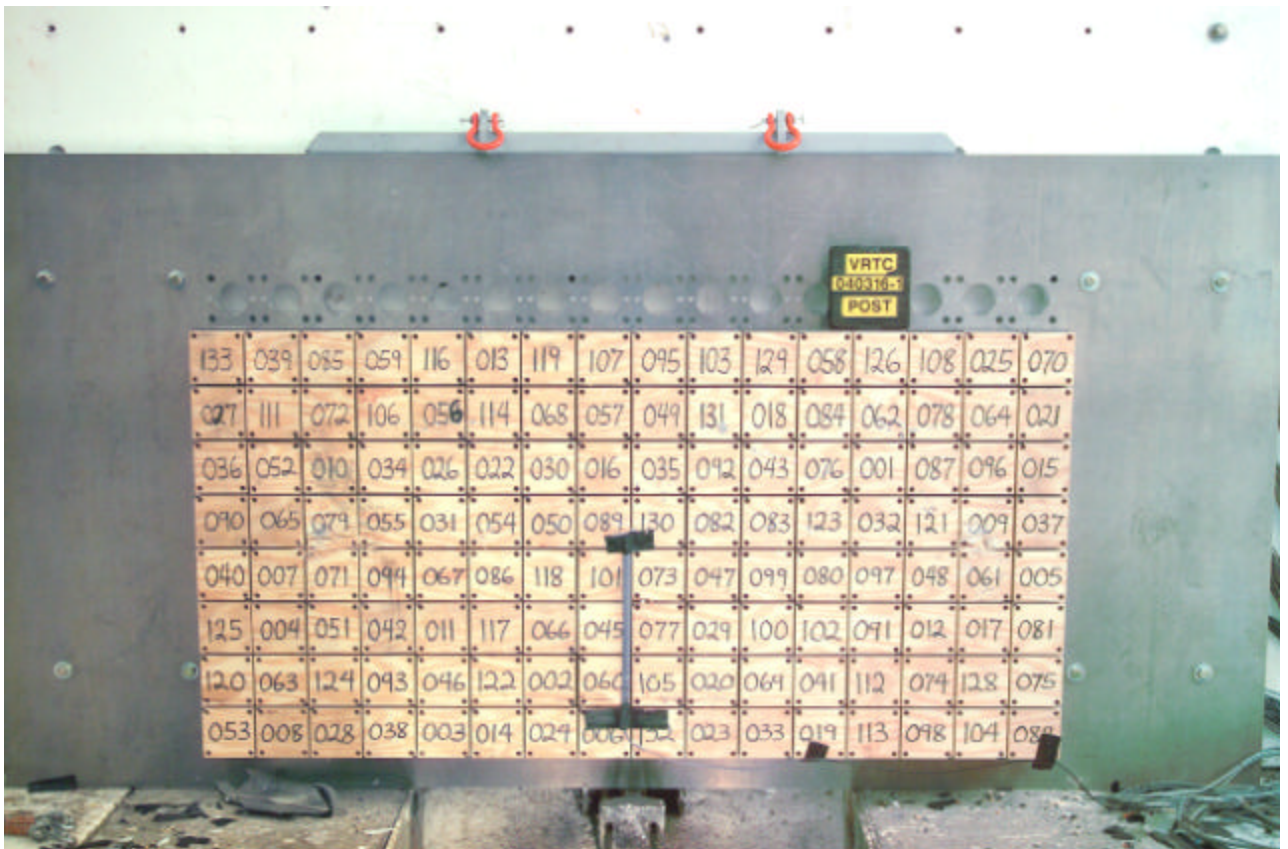


Figure A-6 Post-Test Load Cell Barrier View



Figure A-7 Post-Test Vehicle to Load Cell Barrier Contact - Left View



Figure A-8 Post-Test Vehicle to Load Cell Barrier Contact - Left Tight View



Figure A-9 Post-Test Vehicle to Load Cell Barrier Contact - Right View



Figure A-10 Post-Test Vehicle to Load Cell Barrier Contact - Right Tight View



Figure A-11 Post-Test Vehicle to Load Cell Barrier Contact - View 5



Figure A-12 Post-Test Vehicle to Load Cell Barrier Contact - View 6



Figure A-13 Pre-Test Vehicle Ballast - View 1



Figure A-14 Pre-Test Vehicle Ballast - View 2

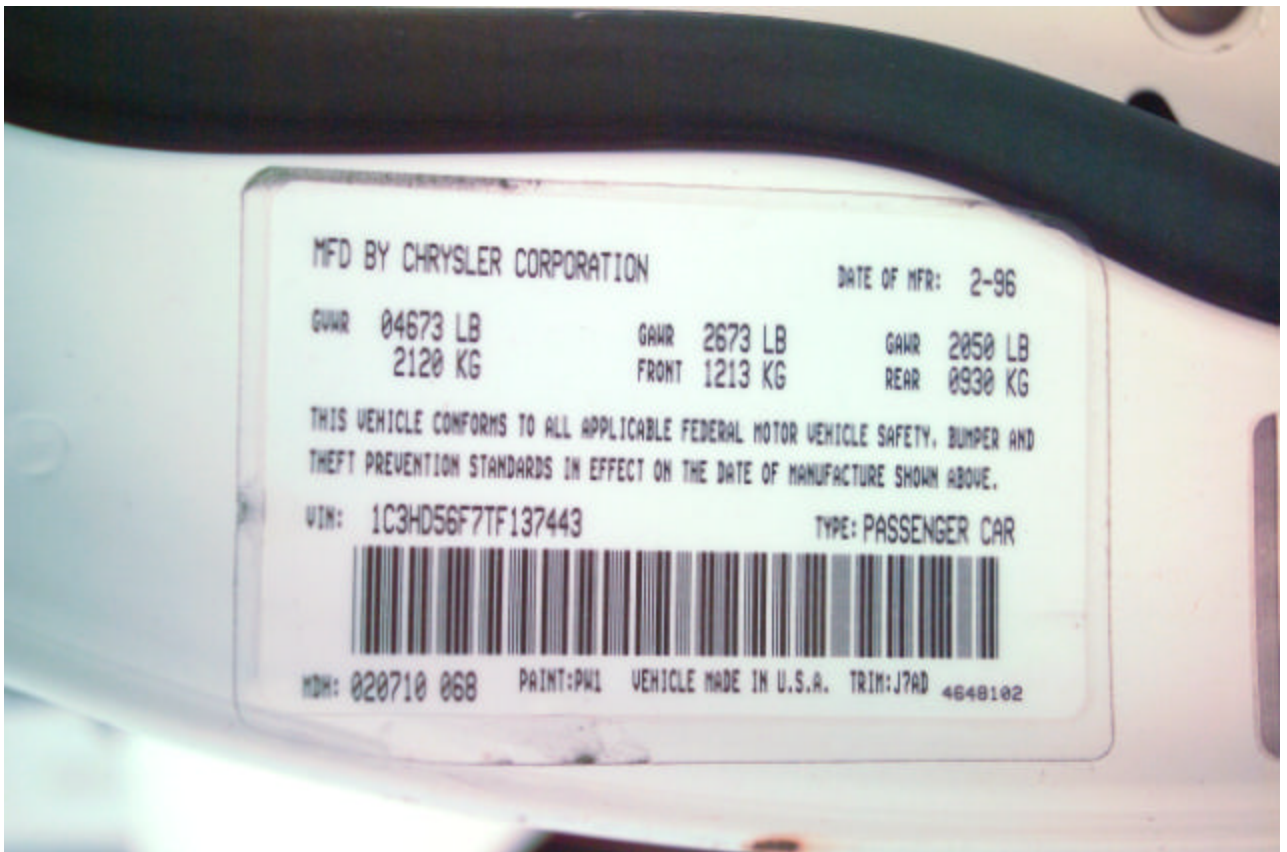


Figure A-15 Vehicle Certification Label View



Figure A-16 Vehicle Tire Pressure Label View

Appendix B

Data Plots



Transportation Research Center, Inc.

VEHICLE CG X-AXIS

Date: 03/16/2004

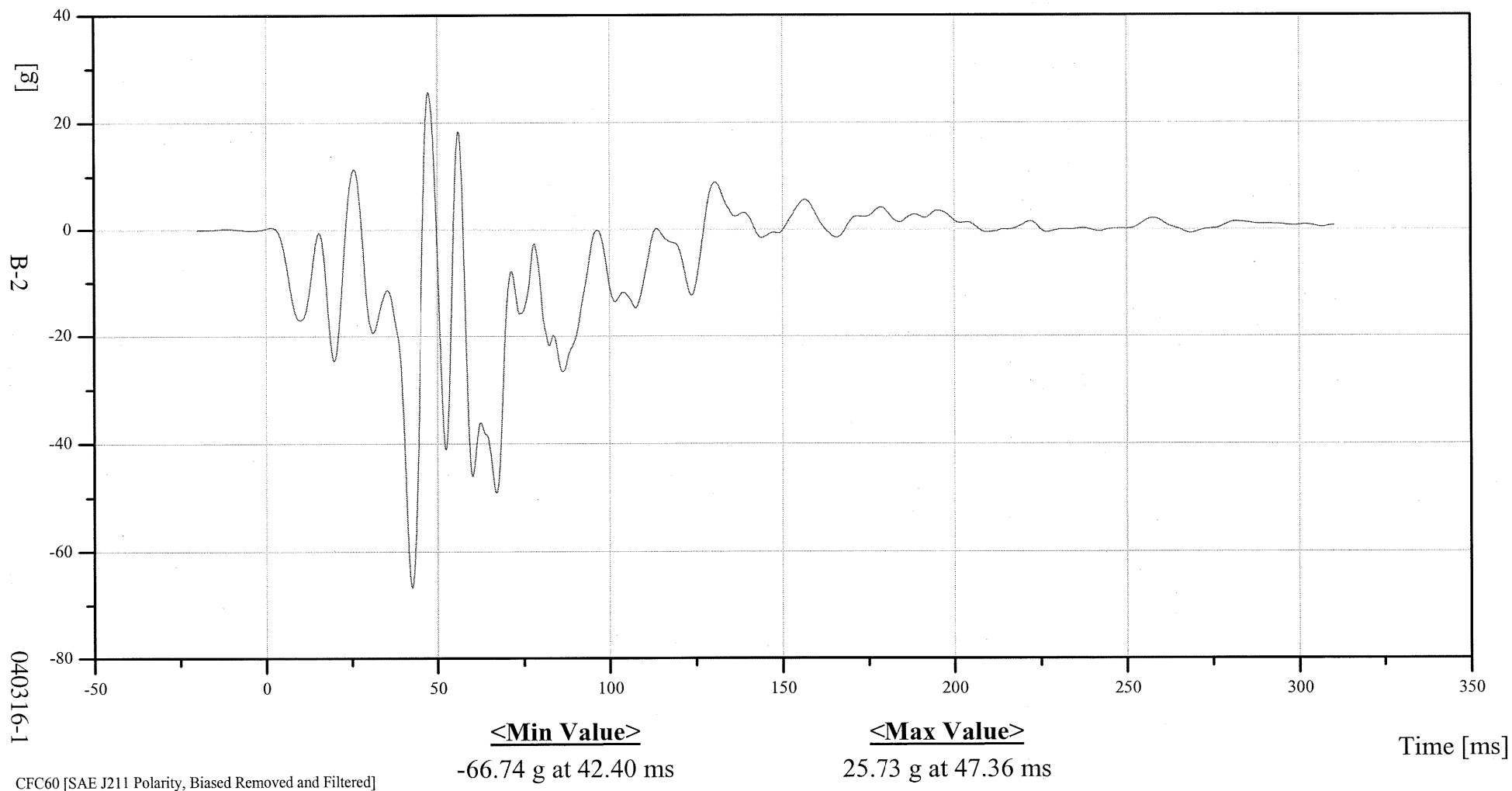
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

VCGXG1





Transportation Research Center, Inc.

VEHICLE CG Y-AXIS

Date: 03/16/2004

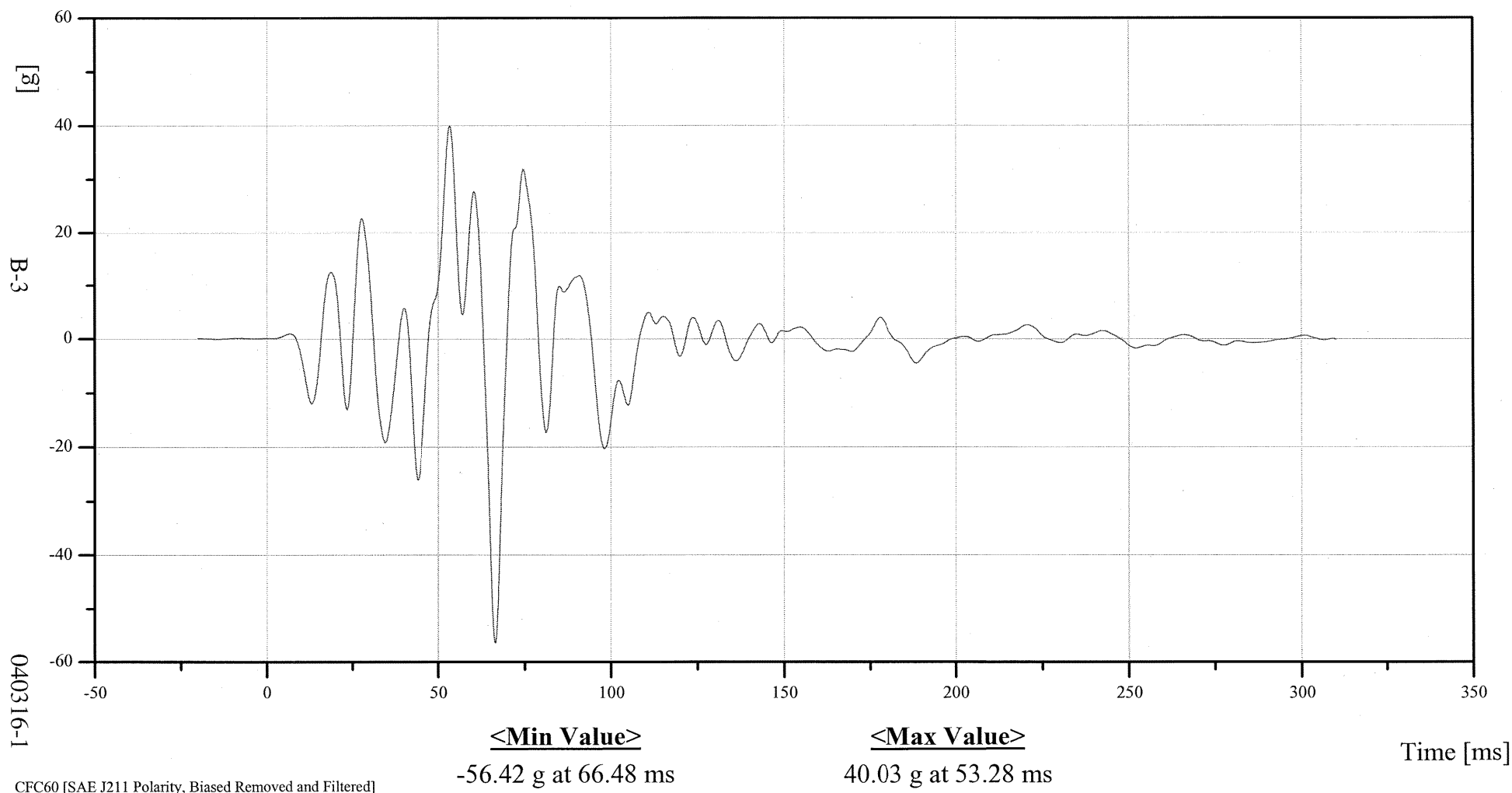
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

VCGYG1





Transportation Research Center, Inc.

VEHICLE CG Z-AXIS

Date: 03/16/2004

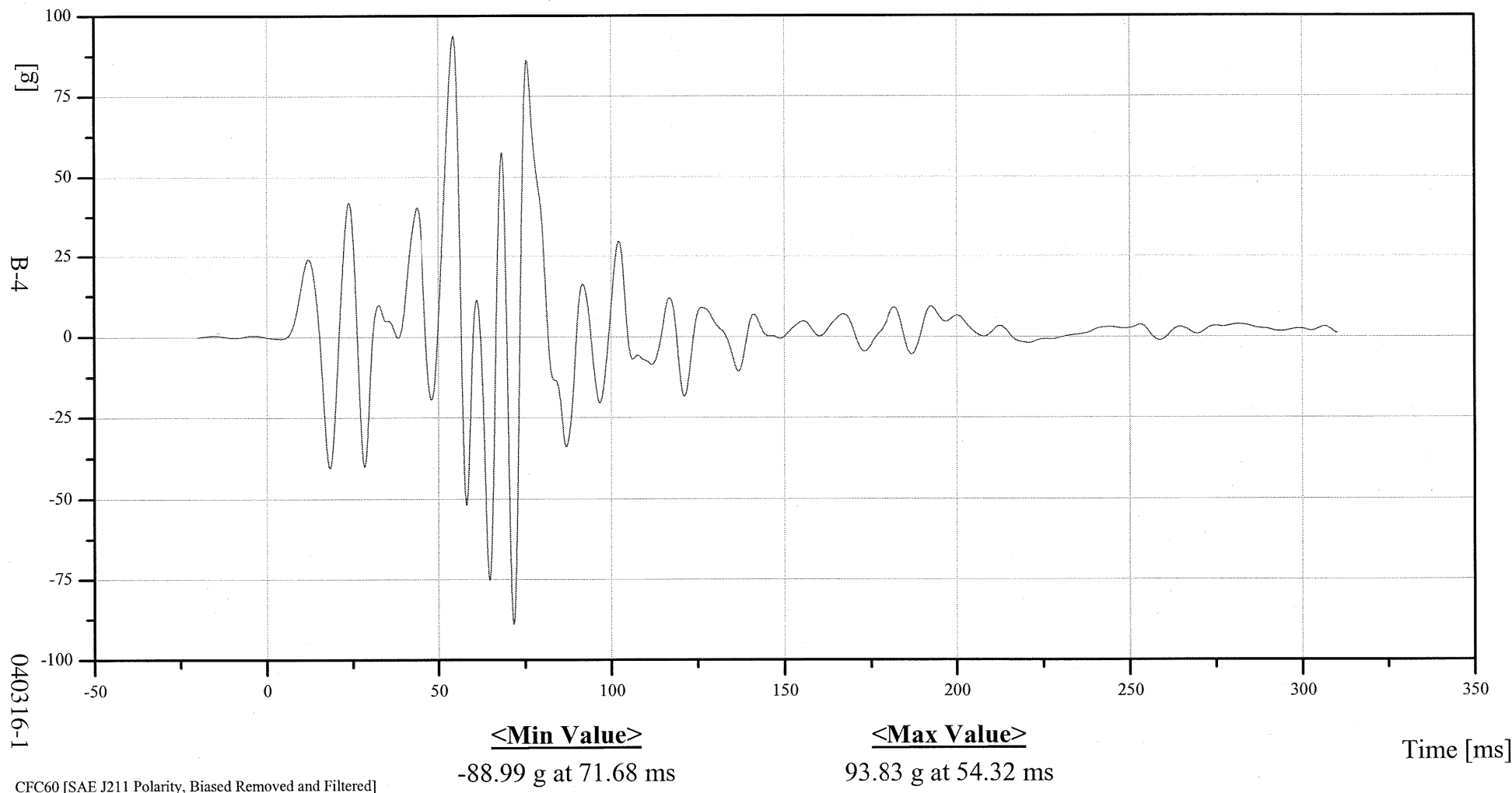
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

VCGZG1





Transportation Research Center, Inc.

VEHICLE CG RESULTANT ACCELERATION

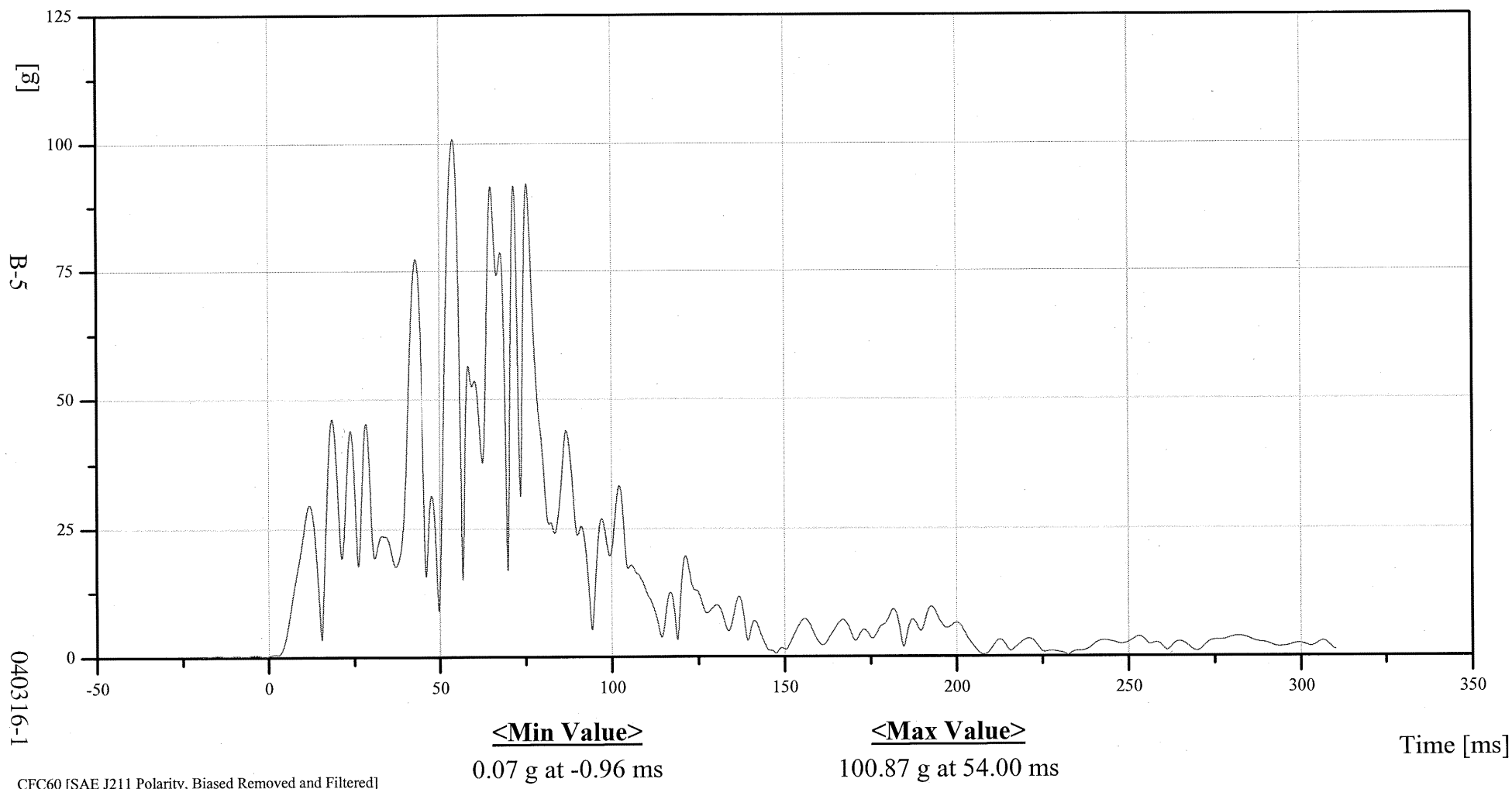
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

VCGRG1





Transportation Research Center, Inc.

REAR DECK X-AXIS

Date: 03/16/2004

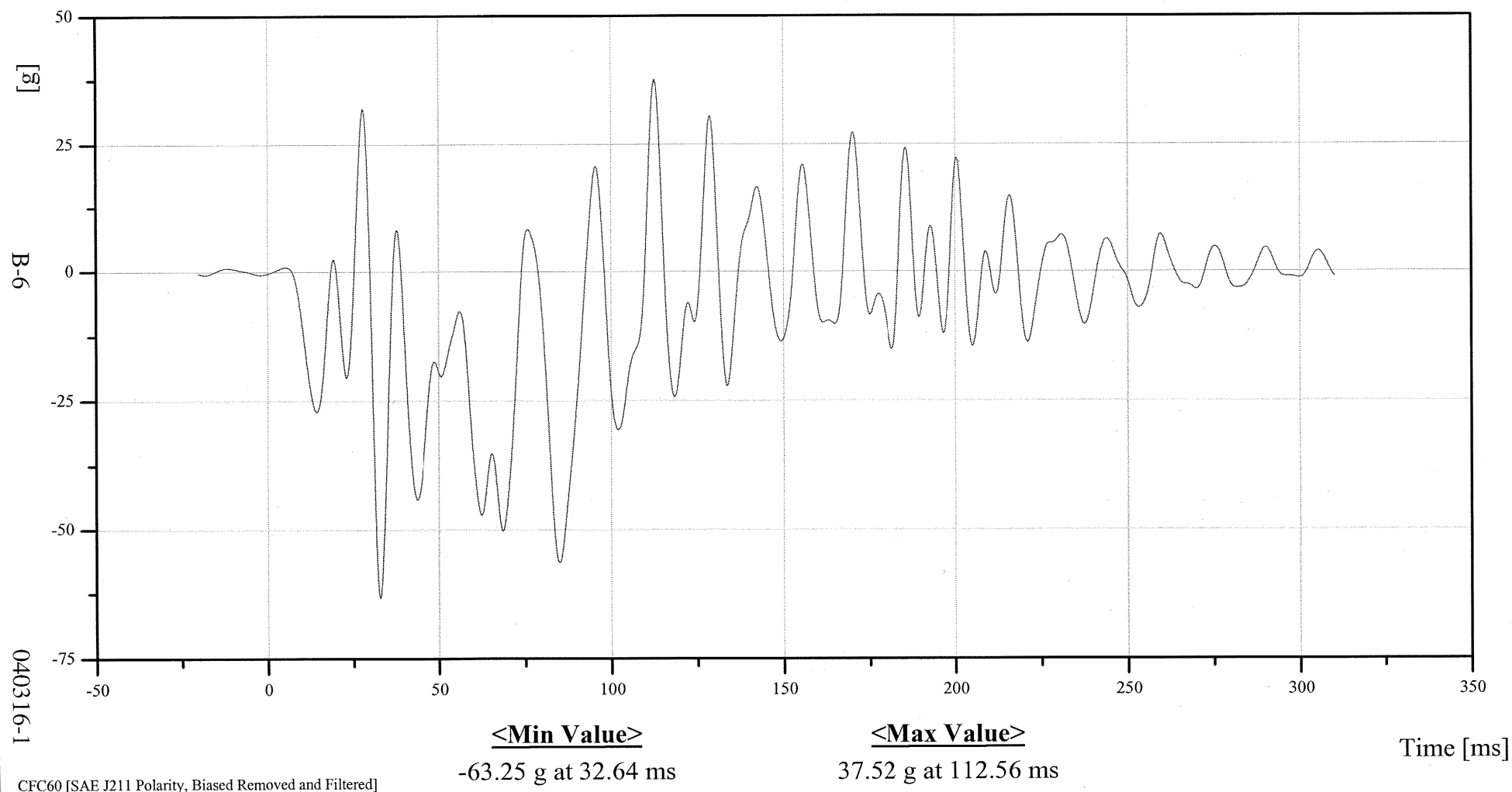
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

RDKXG1





Transportation Research Center, Inc.

REAR DECK Y-AXIS

Date: 03/16/2004

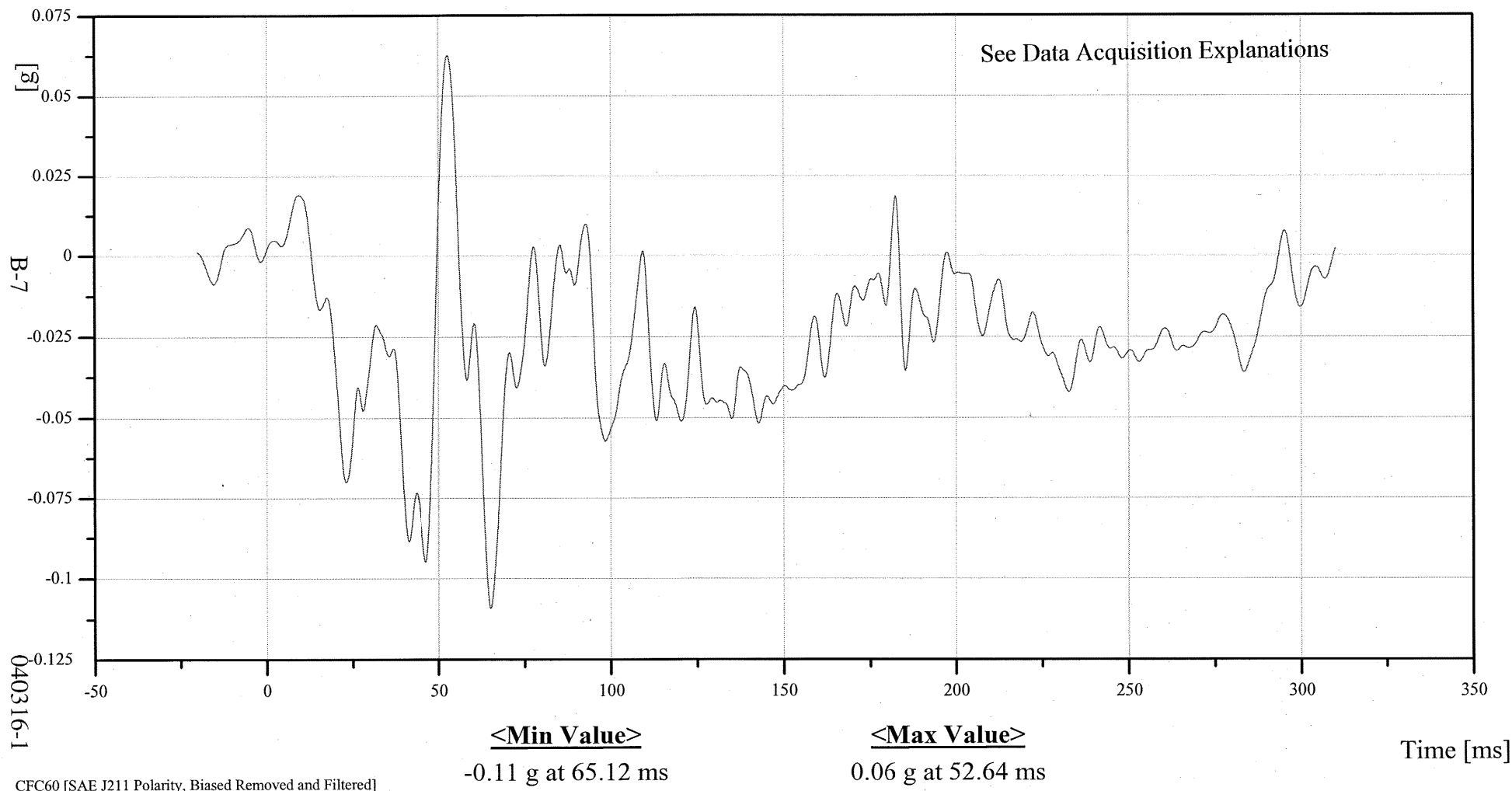
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

RDKEYG1





Transportation Research Center, Inc.

REAR DECK Z-AXIS

Date: 03/16/2004

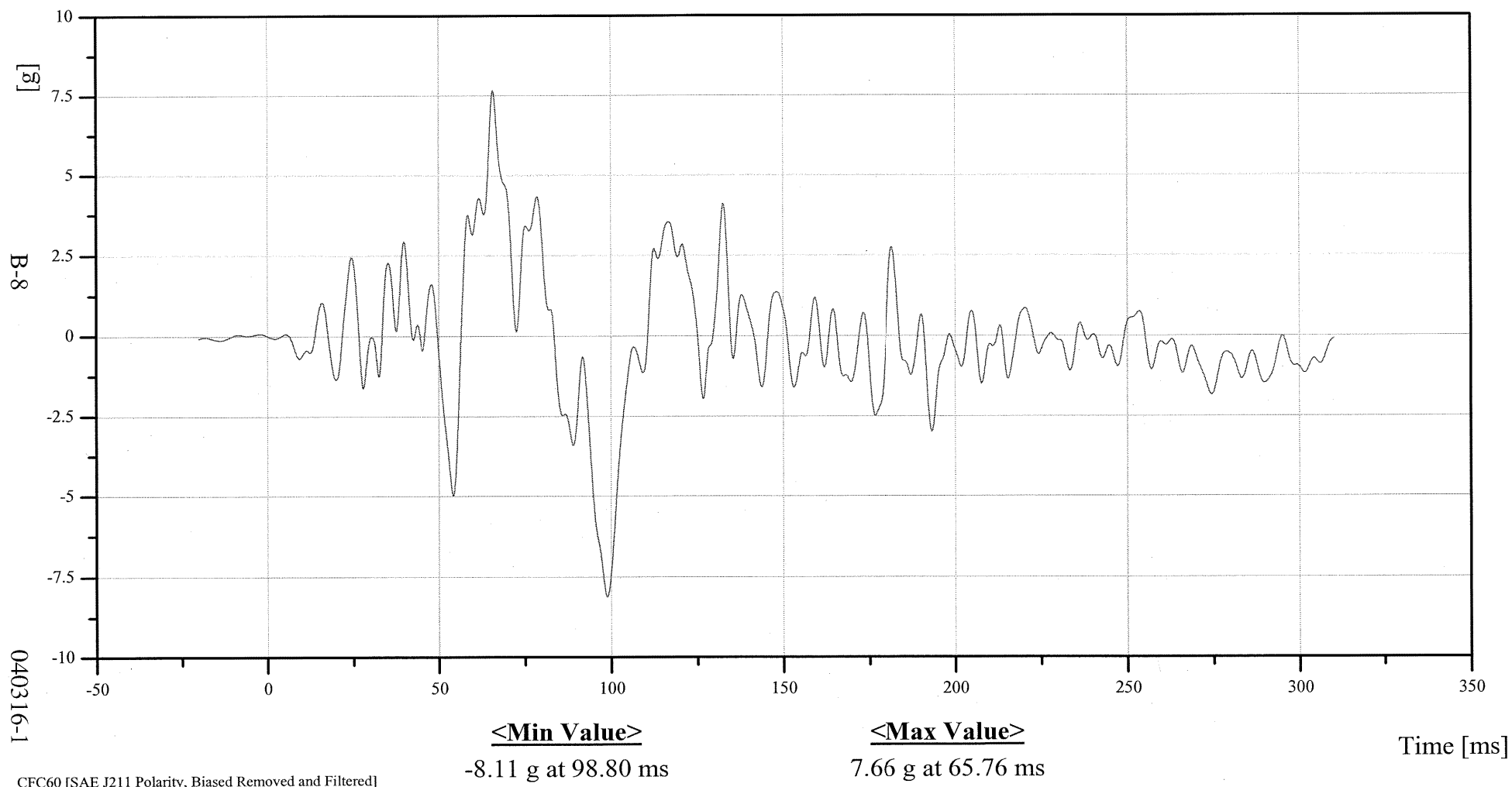
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

RDKZG1





Transportation Research Center, Inc.

REAR DECK RESULTANT ACCELERATION

Date: 03/16/2004

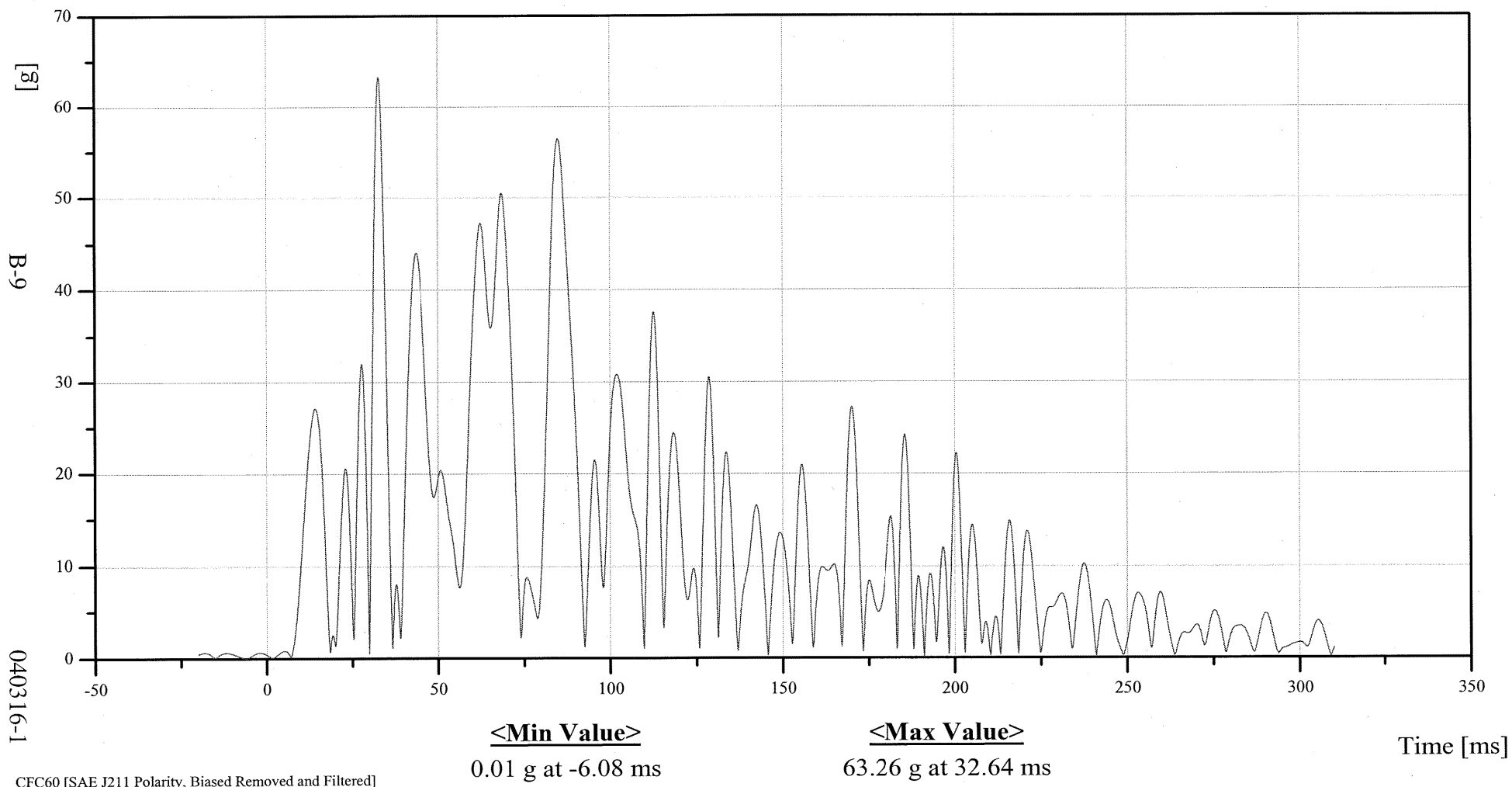
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

RDKRG1





Transportation Research Center, Inc.

ROW 1 COLUMN 1

Date: 03/16/2004

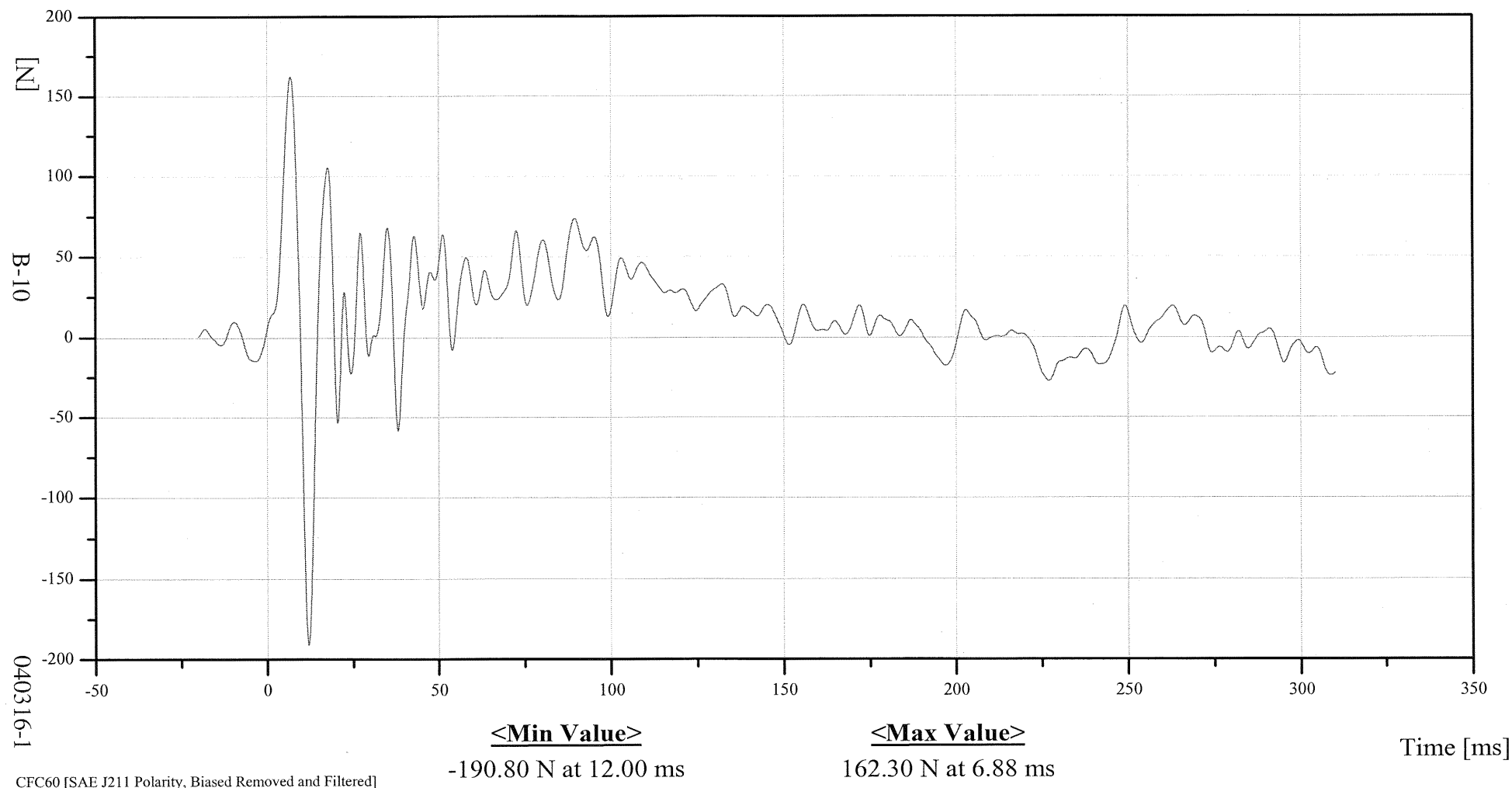
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0101





Transportation Research Center, Inc.

ROW 1 COLUMN 2

Date: 03/16/2004

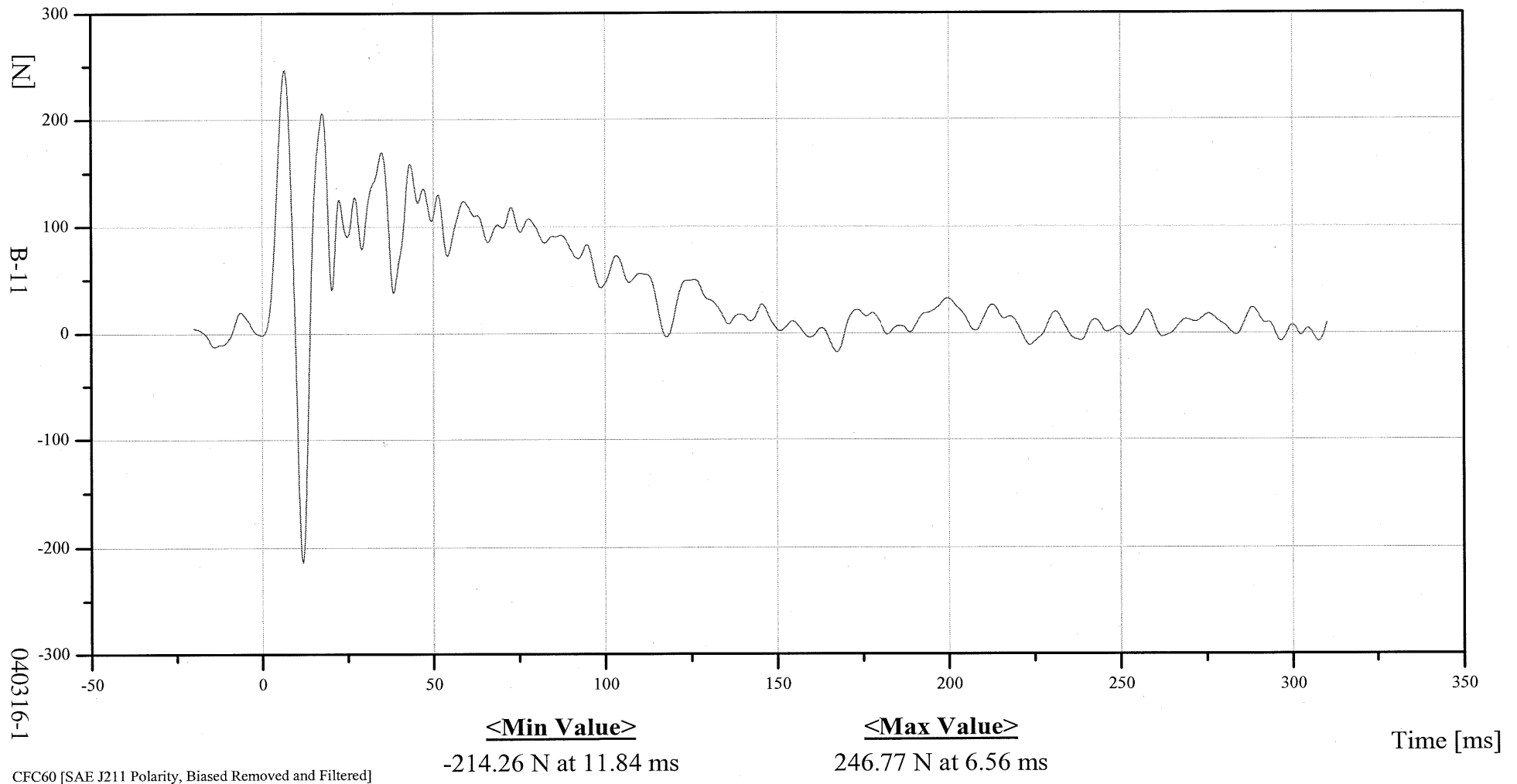
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0102





Transportation Research Center, Inc.

ROW 1 COLUMN 3

Date: 03/16/2004

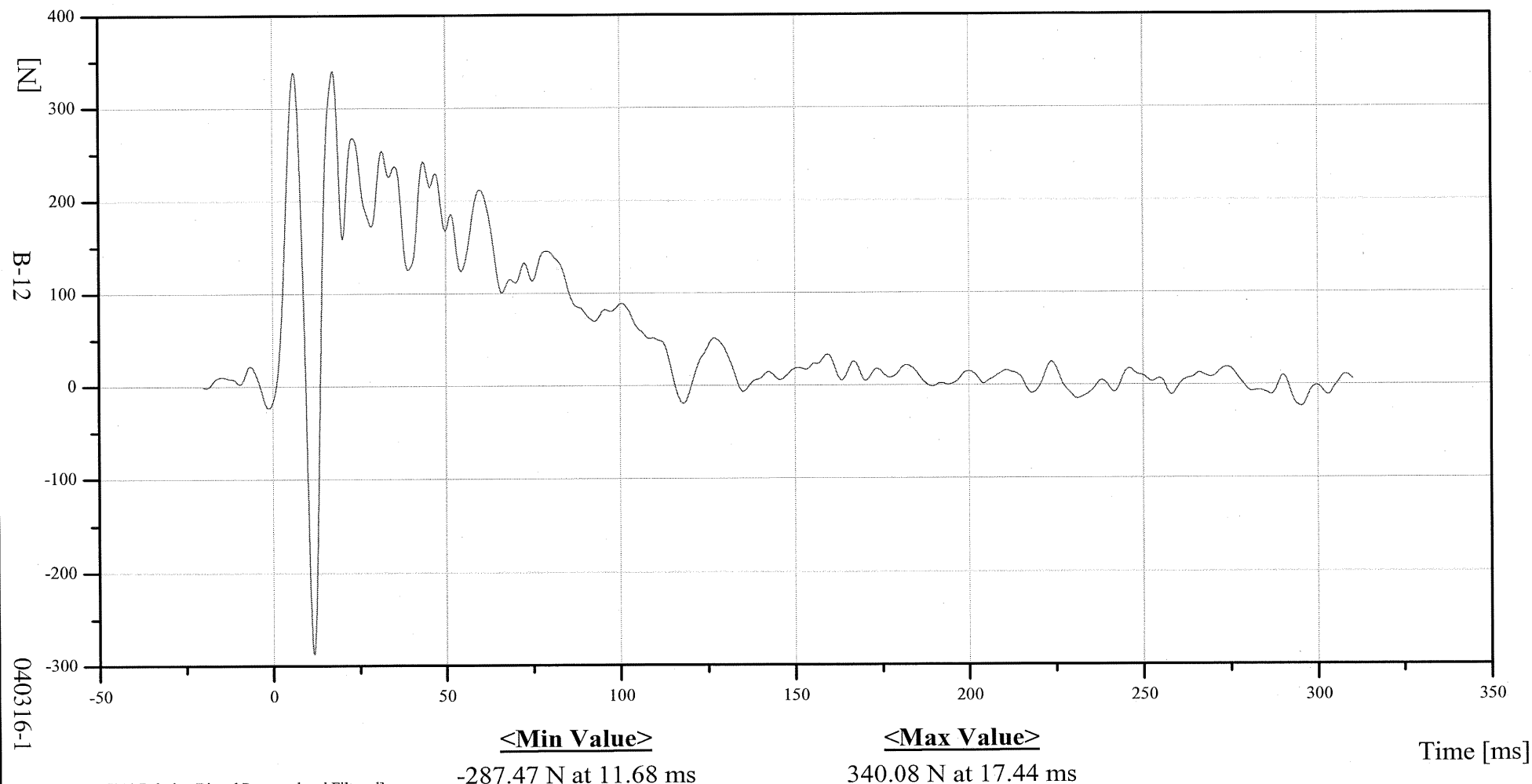
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0103



CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 1 COLUMN 4

Date: 03/16/2004

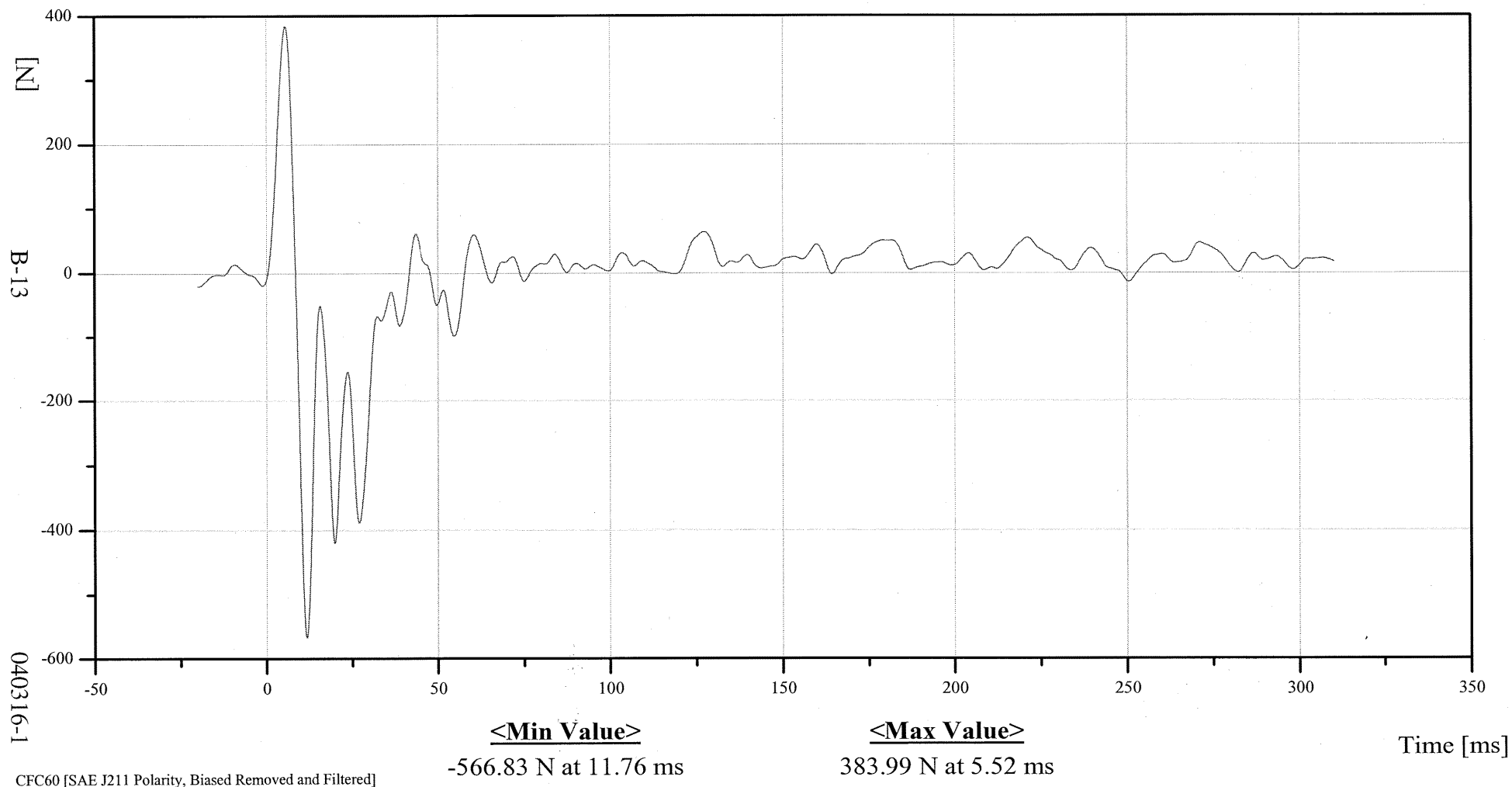
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0104





Transportation Research Center, Inc.

ROW 1 COLUMN 5

Date: 03/16/2004

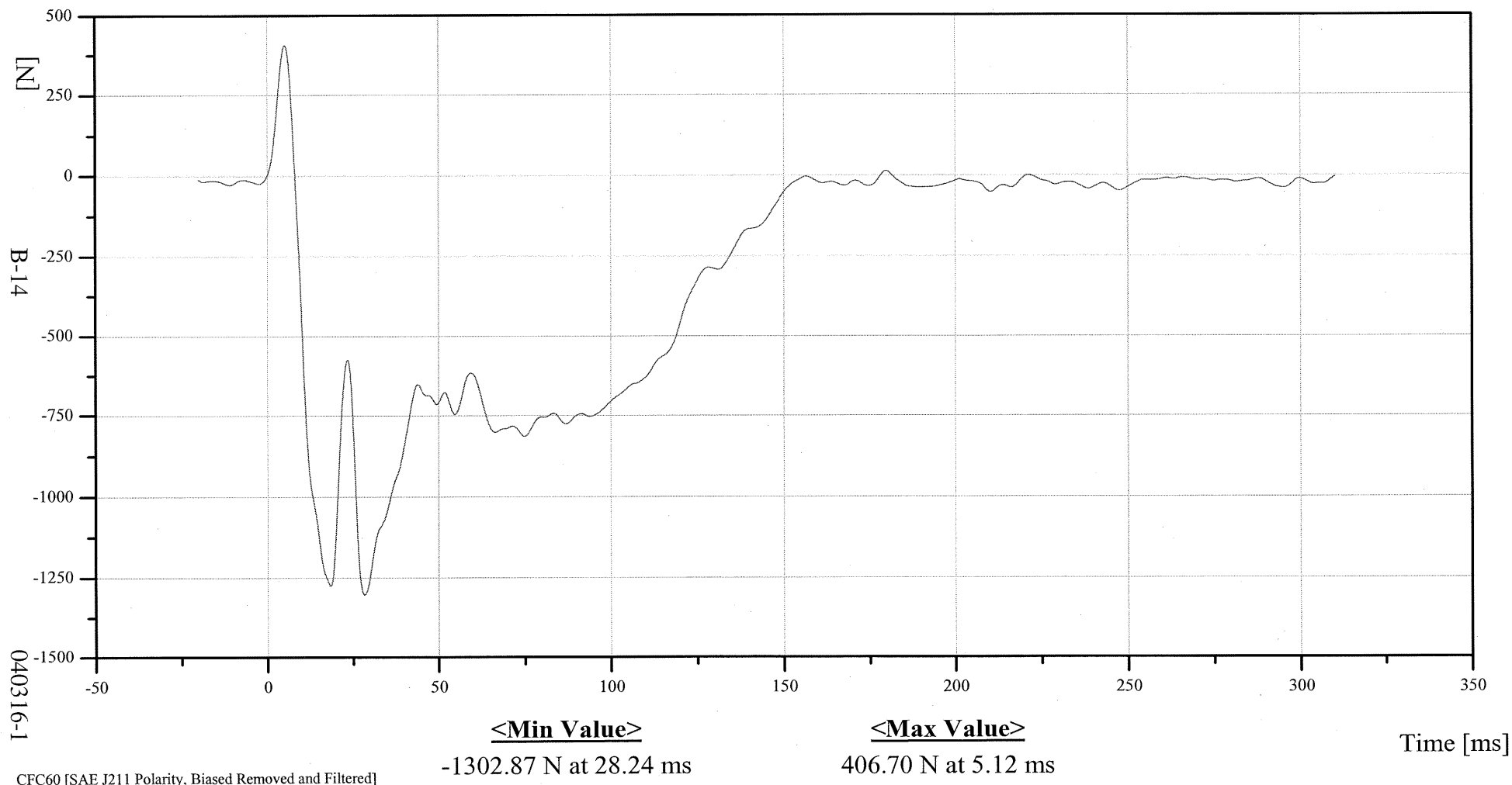
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0105





Transportation Research Center, Inc.

ROW 1 COLUMN 6

Date: 03/16/2004

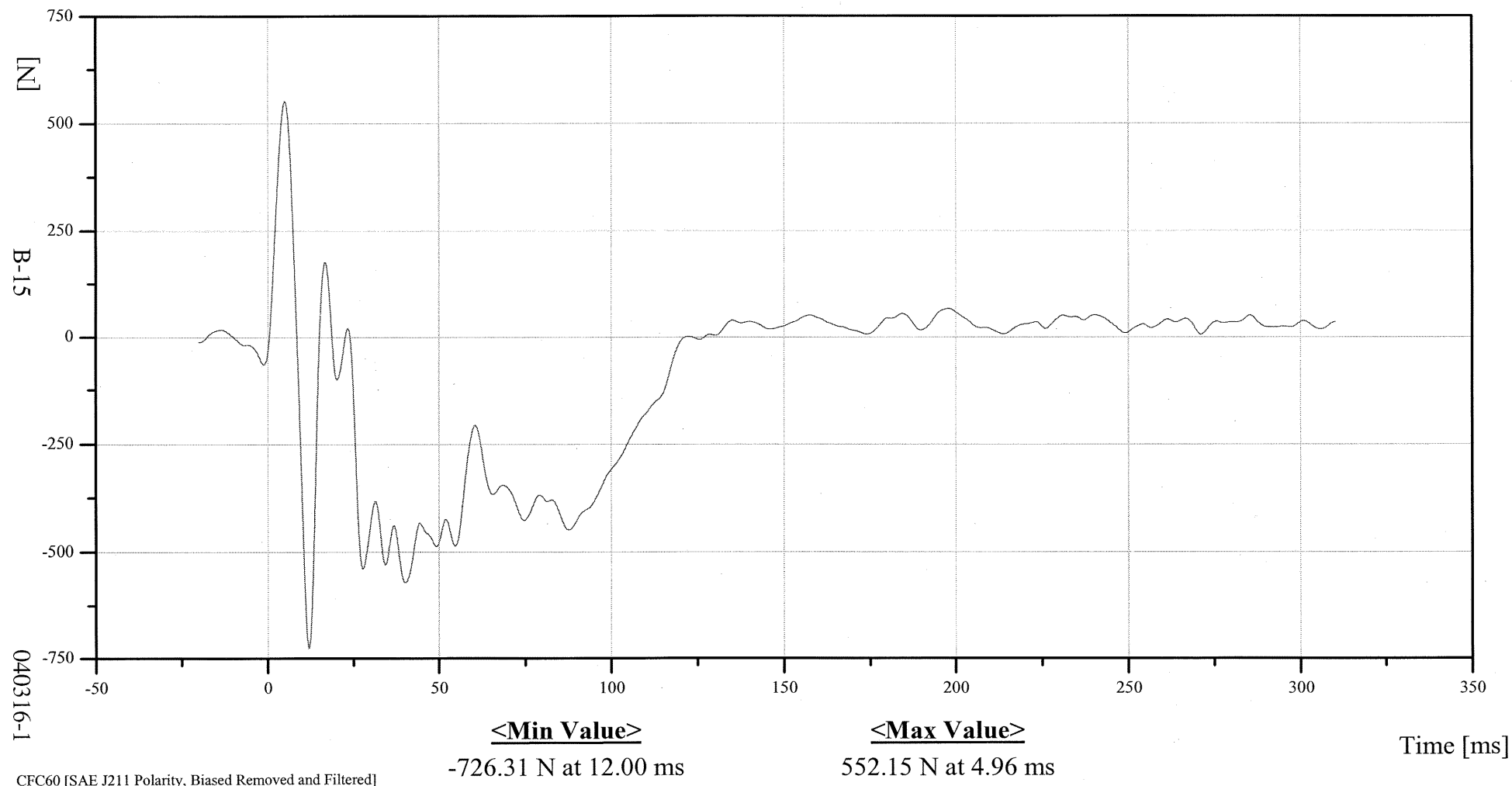
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0106





Transportation Research Center, Inc.

ROW 1 COLUMN 7

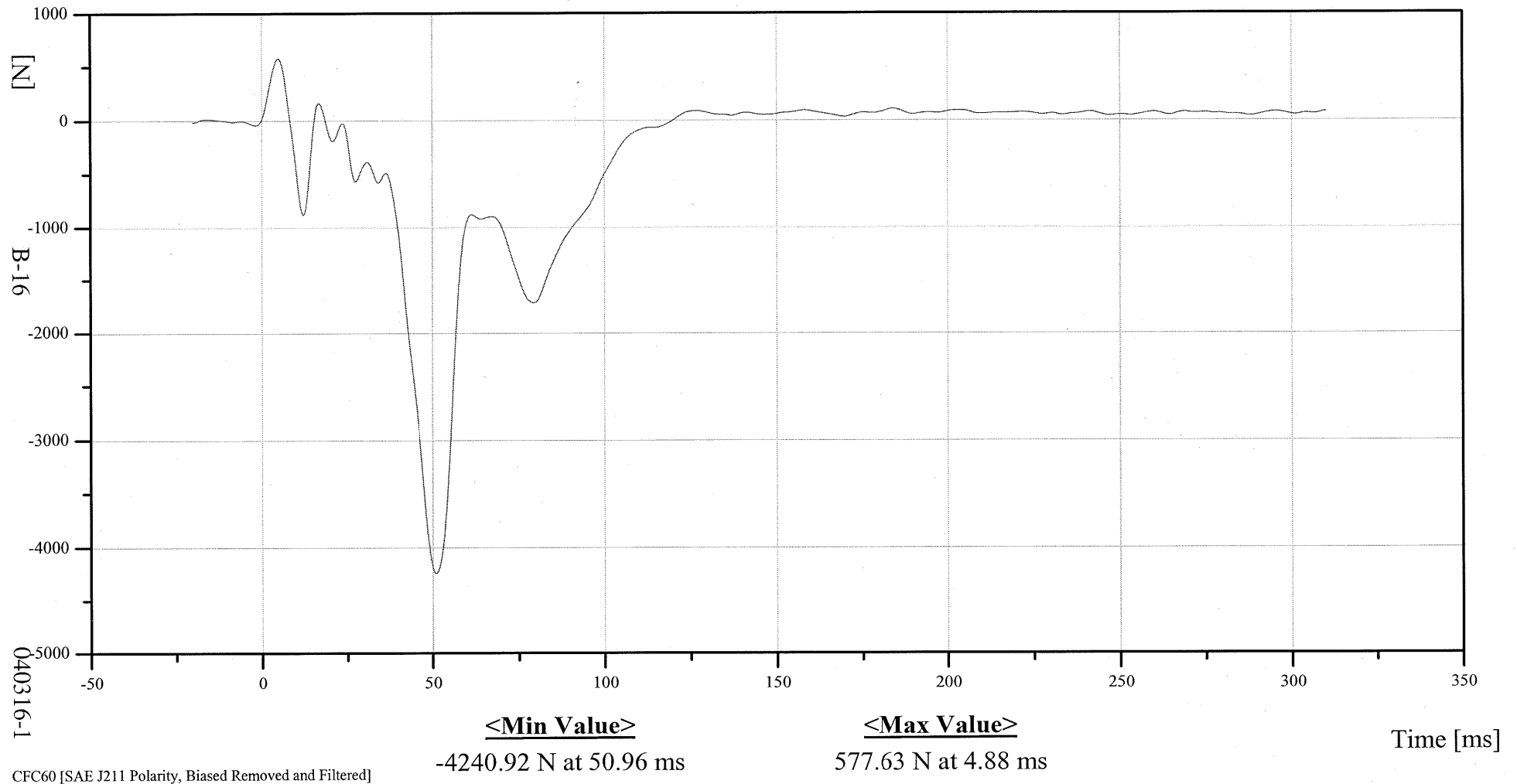
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0107





Transportation Research Center, Inc.

ROW 1 COLUMN 8

Date: 03/16/2004

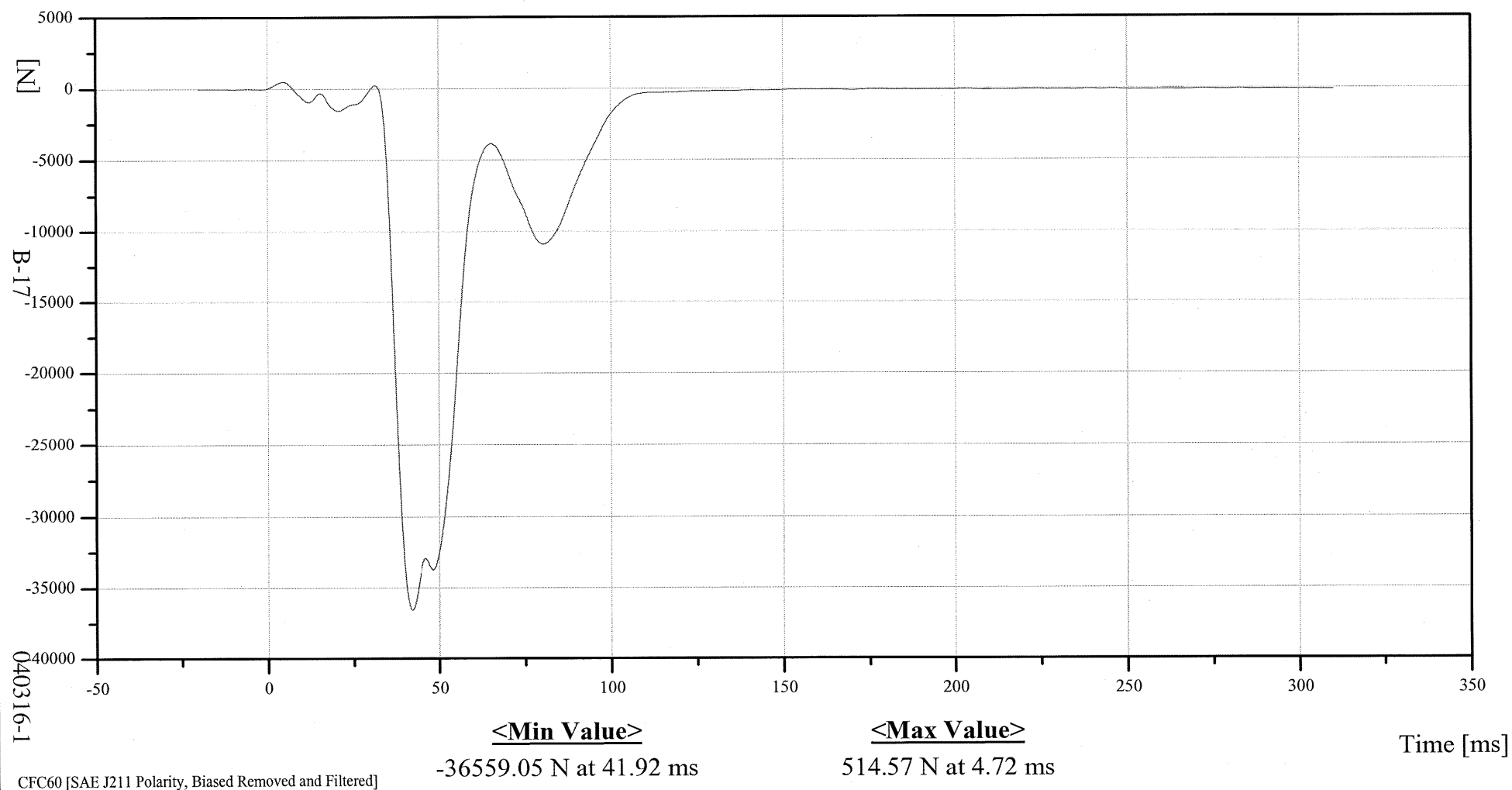
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0108





Transportation Research Center, Inc.

ROW 1 COLUMN 9

Date: 03/16/2004

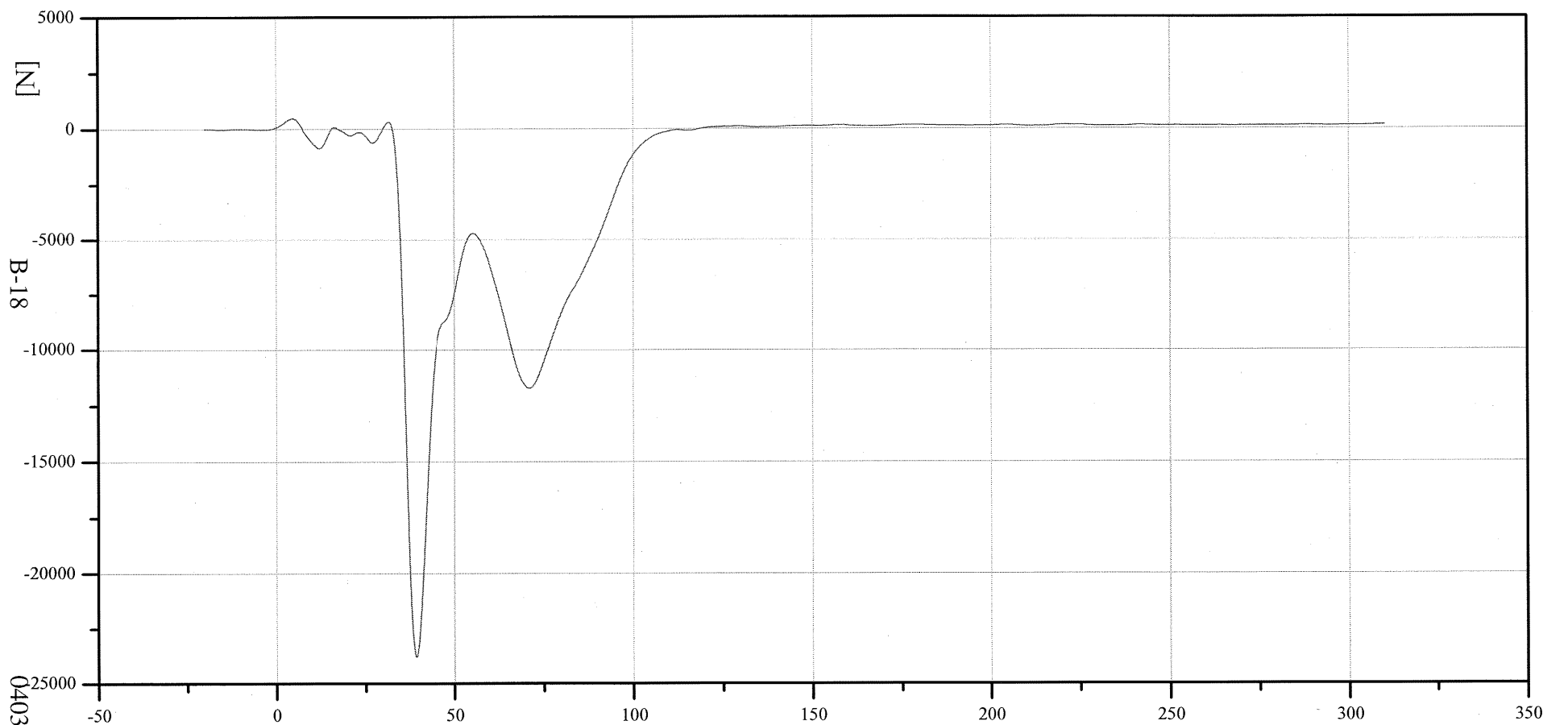
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0109



<Min Value>

-23766.46 N at 39.12 ms

<Max Value>

480.17 N at 4.72 ms

Time [ms]

CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 1 COLUMN 10

Date: 03/16/2004

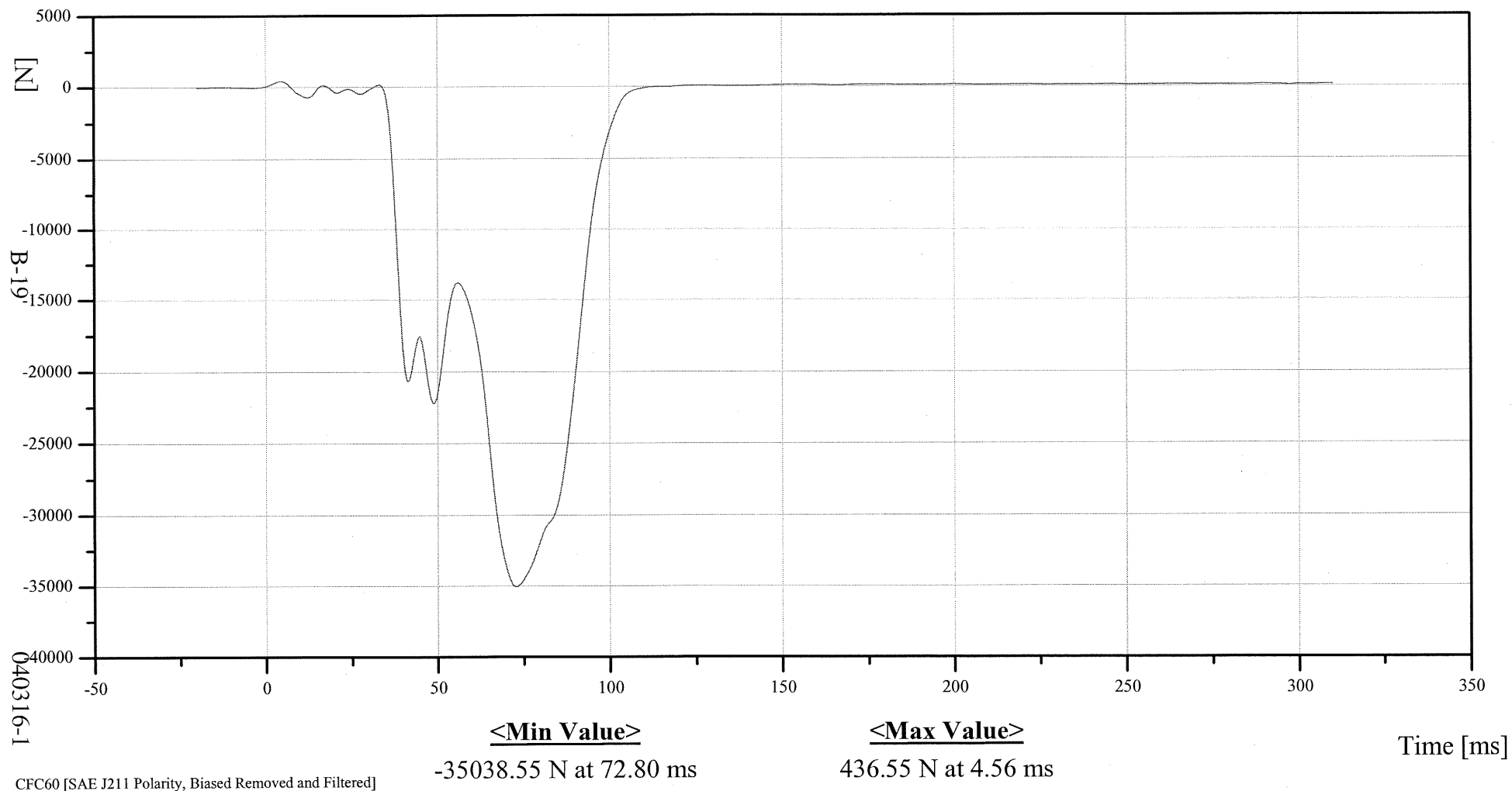
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0110





Transportation Research Center, Inc.

ROW 1 COLUMN 11

Date: 03/16/2004

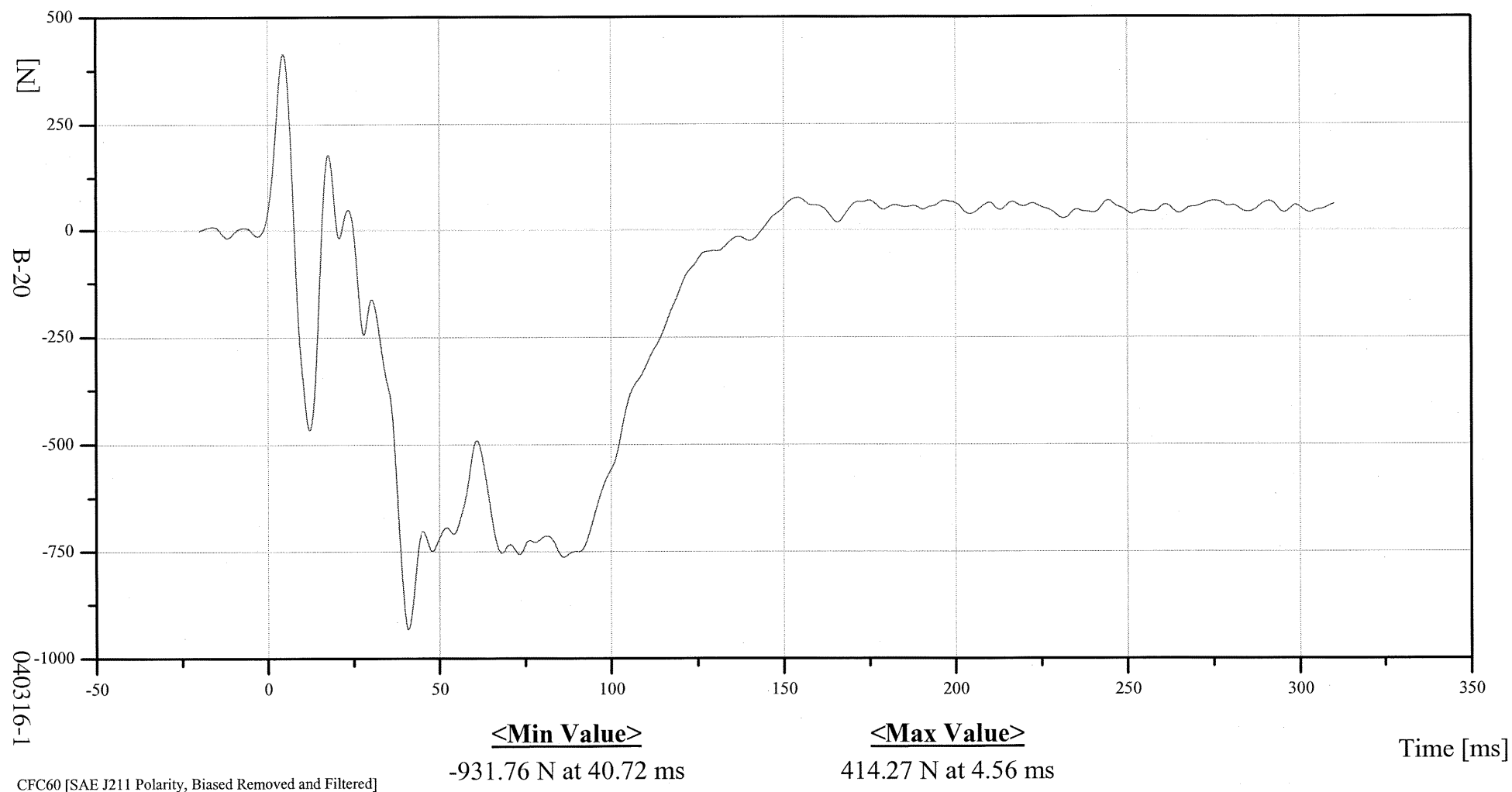
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0111





Transportation Research Center, Inc.

ROW 1 COLUMN 12

Date: 03/16/2004

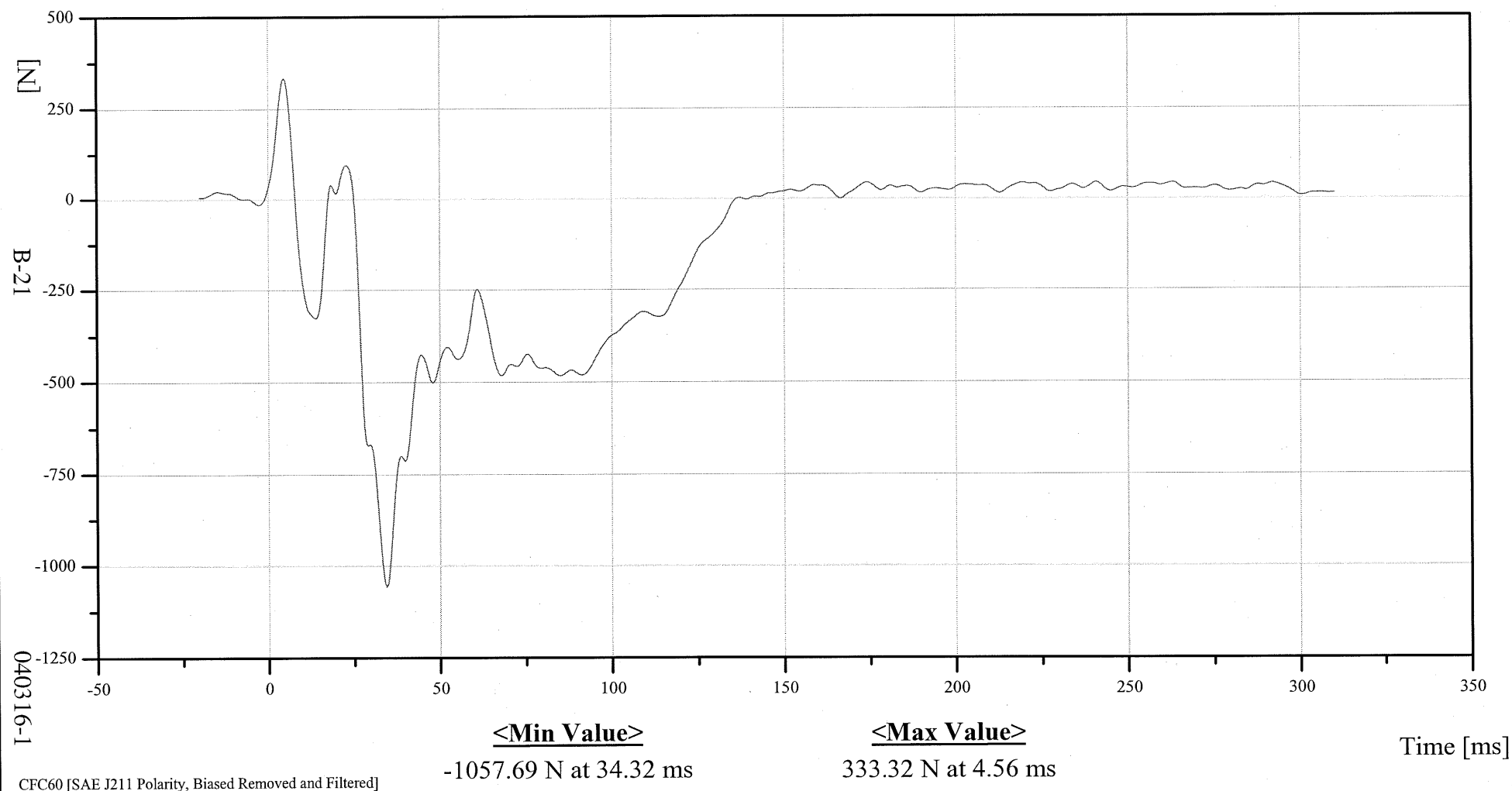
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0112





Transportation Research Center, Inc.

ROW 1 COLUMN 13

Date: 03/16/2004

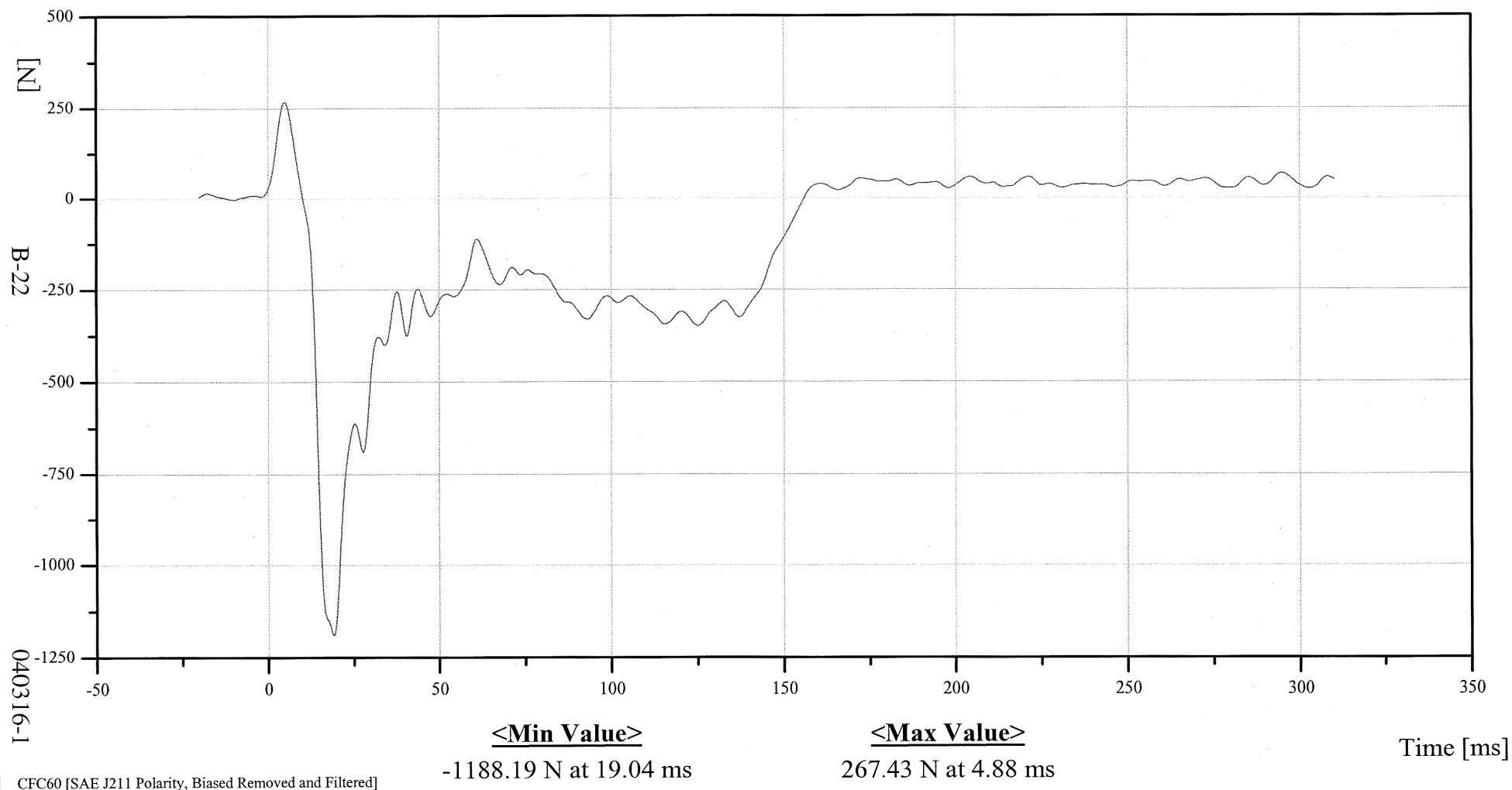
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0113





Transportation Research Center, Inc.

ROW 1 COLUMN 14

Date: 03/16/2004

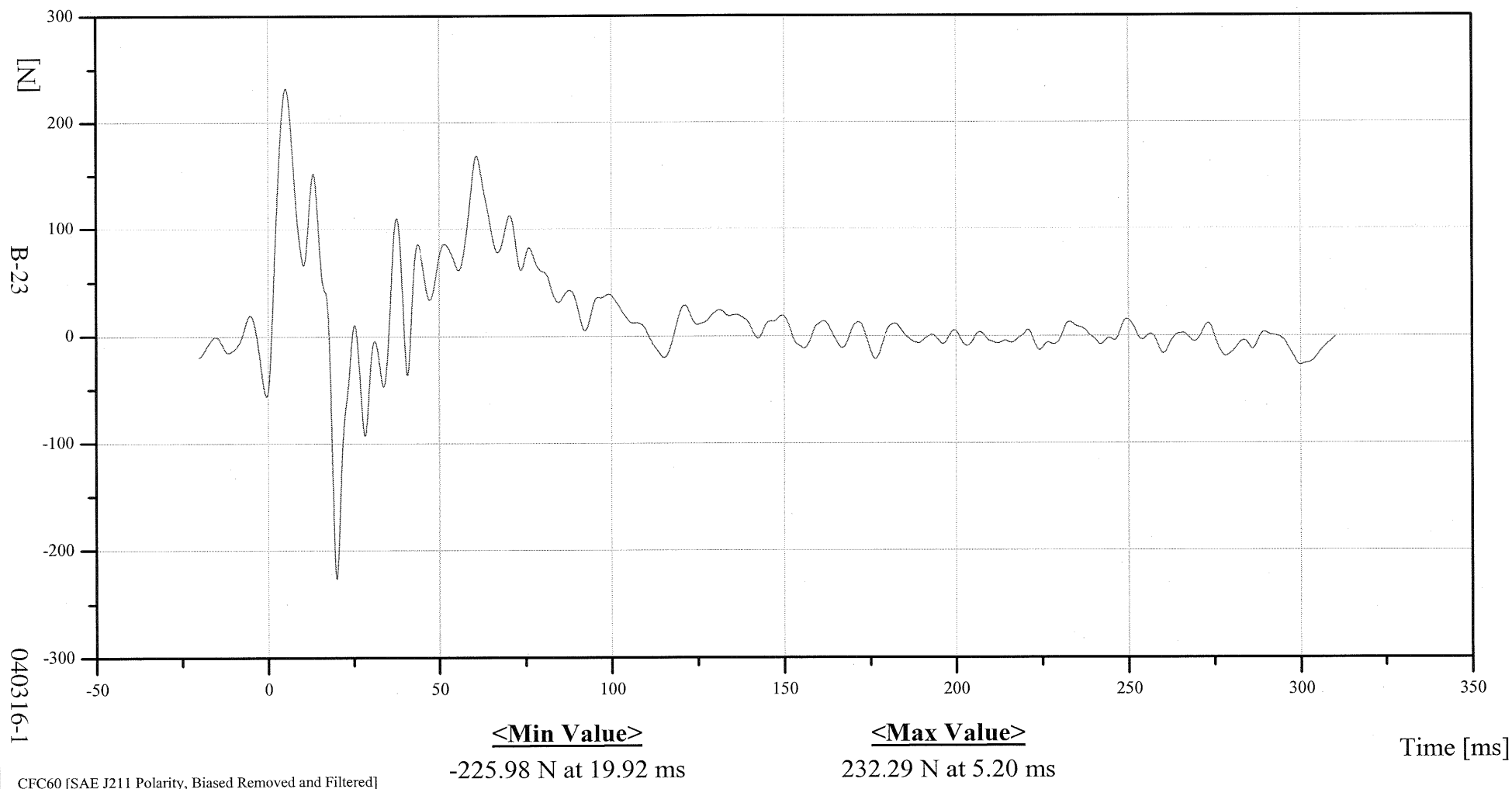
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0114





Transportation Research Center, Inc.

ROW 1 COLUMN 15

Date: 03/16/2004

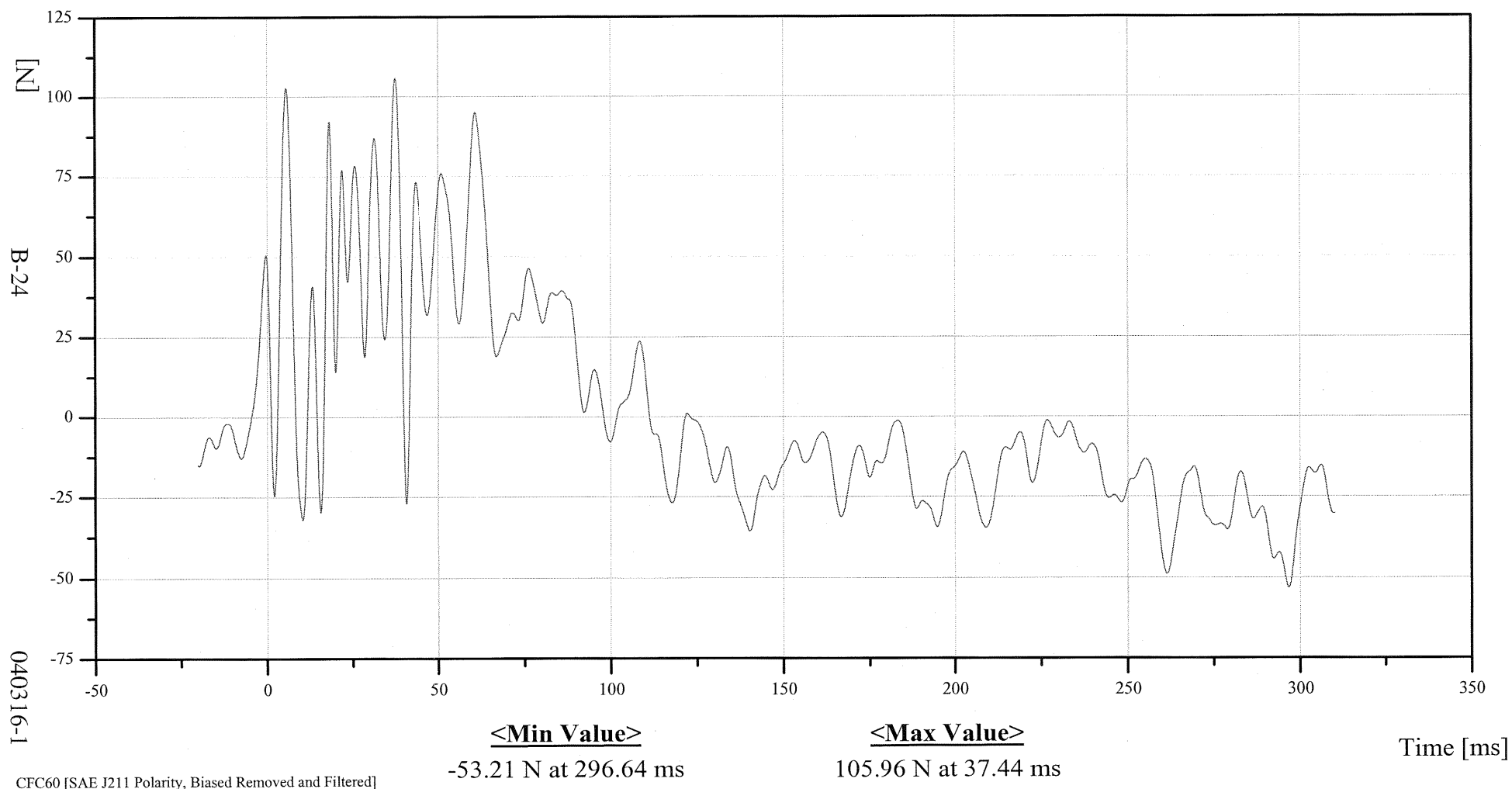
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0115





Transportation Research Center, Inc.

ROW 1 COLUMN 16

Date: 03/16/2004

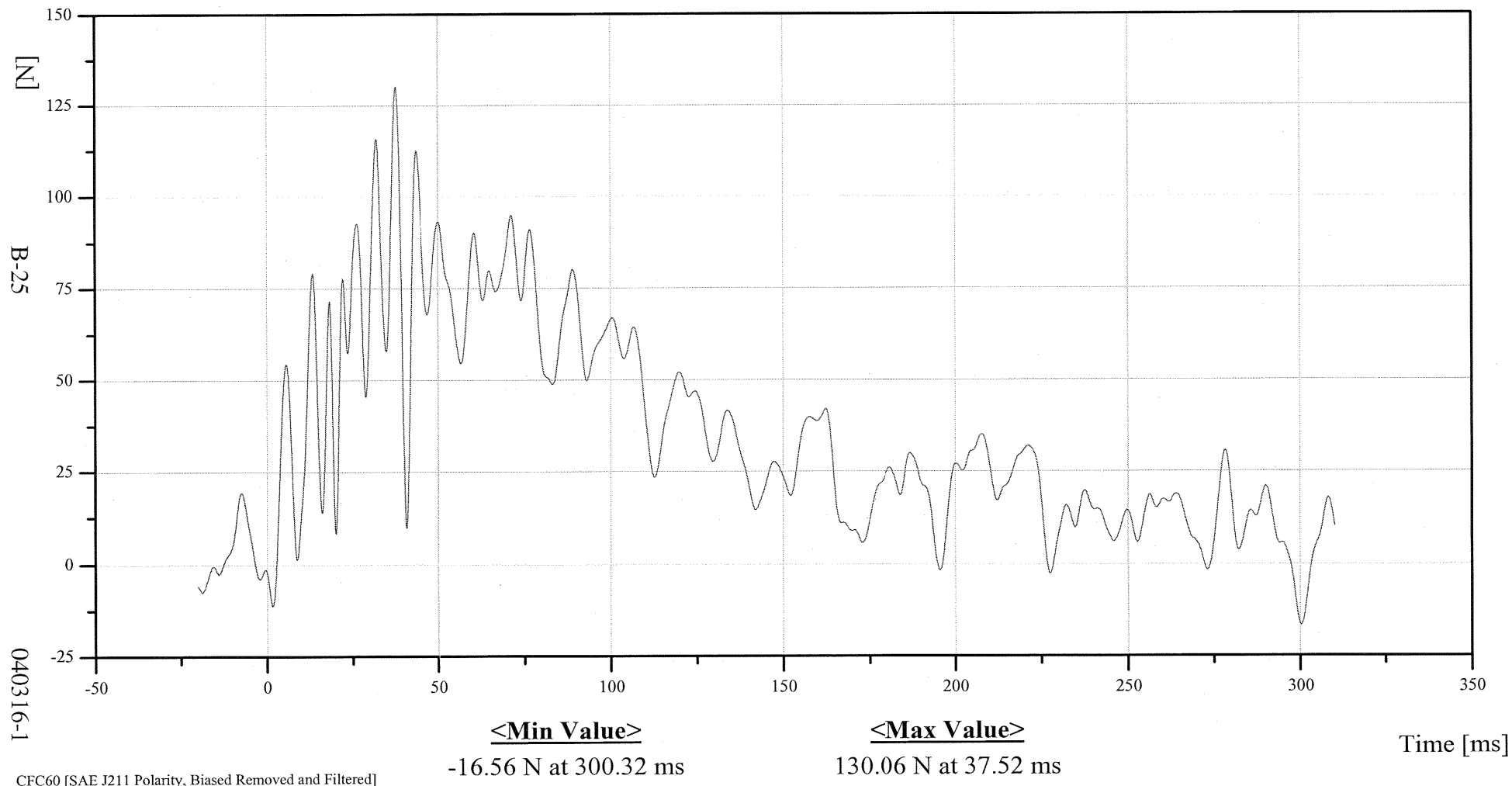
Time: 09:51:08

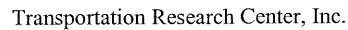
Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0116





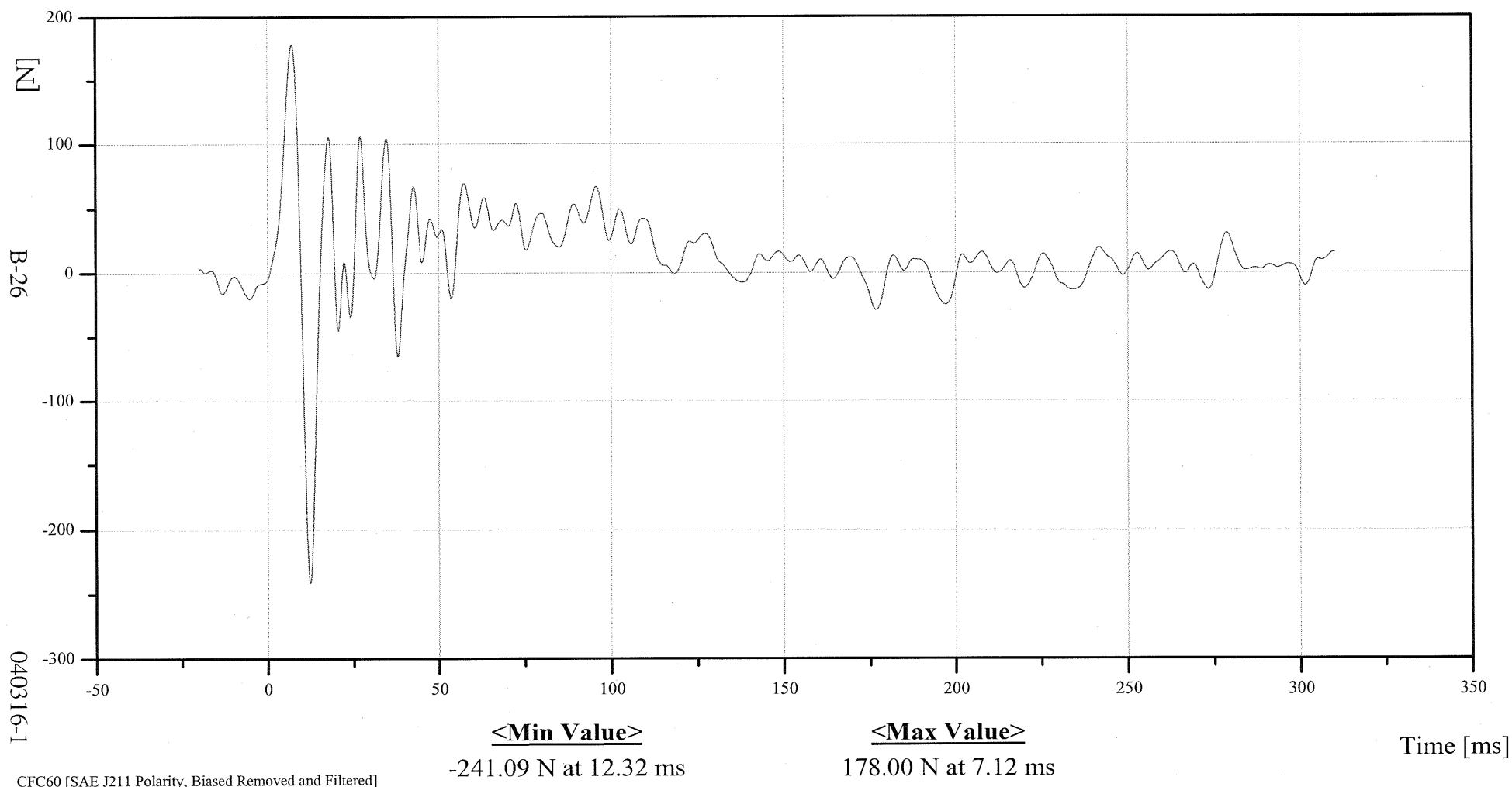
Date: 03/16/2004

Time: 09:51:08

Customer: VRTC

Test Number: 040316-1

LC0201





Transportation Research Center, Inc.

ROW 2 COLUMN 2

Date: 03/16/2004

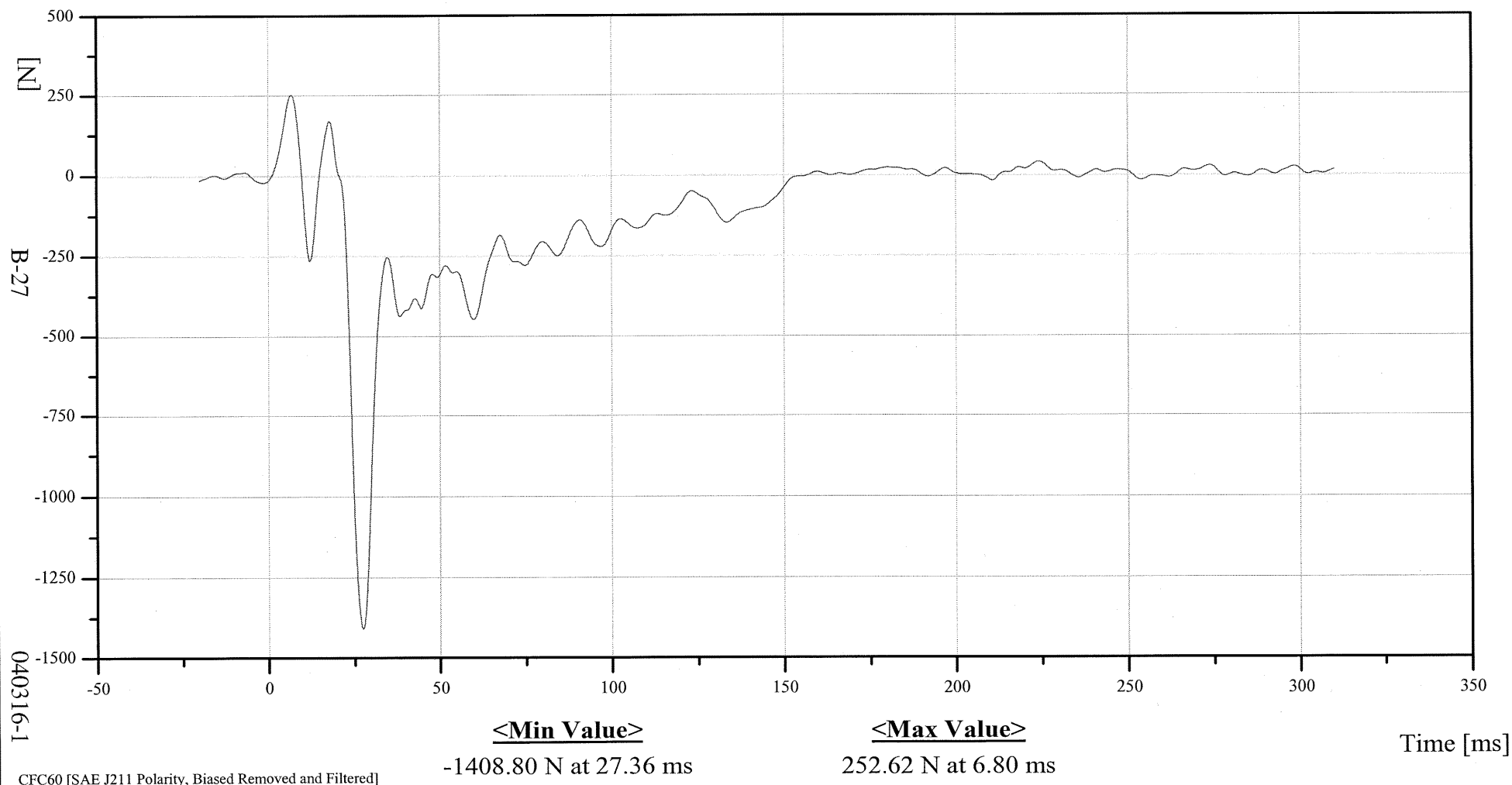
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0202





Transportation Research Center, Inc.

ROW 2 COLUMN 3

Date: 03/16/2004

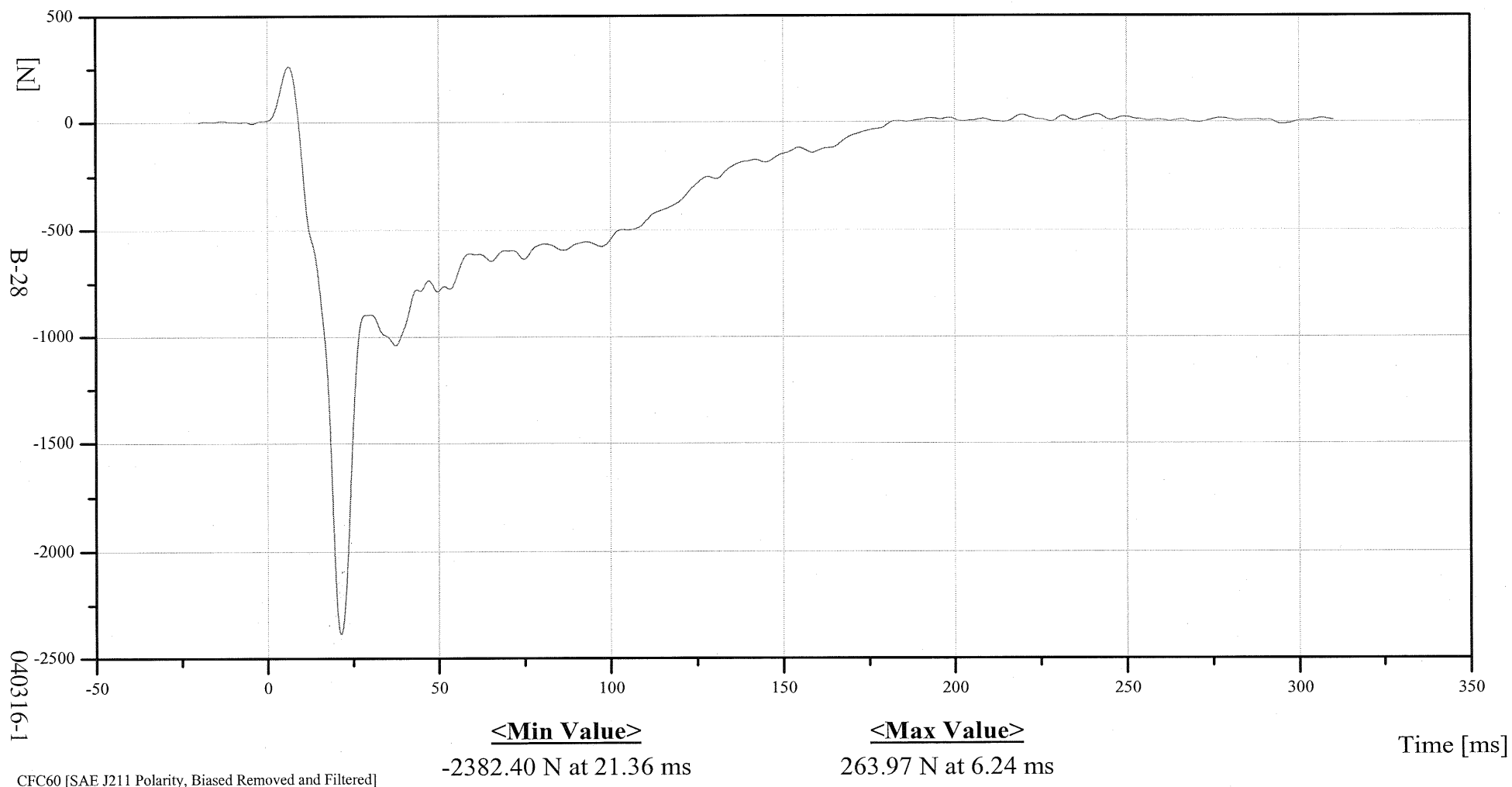
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0203





Transportation Research Center, Inc.

ROW 2 COLUMN 4

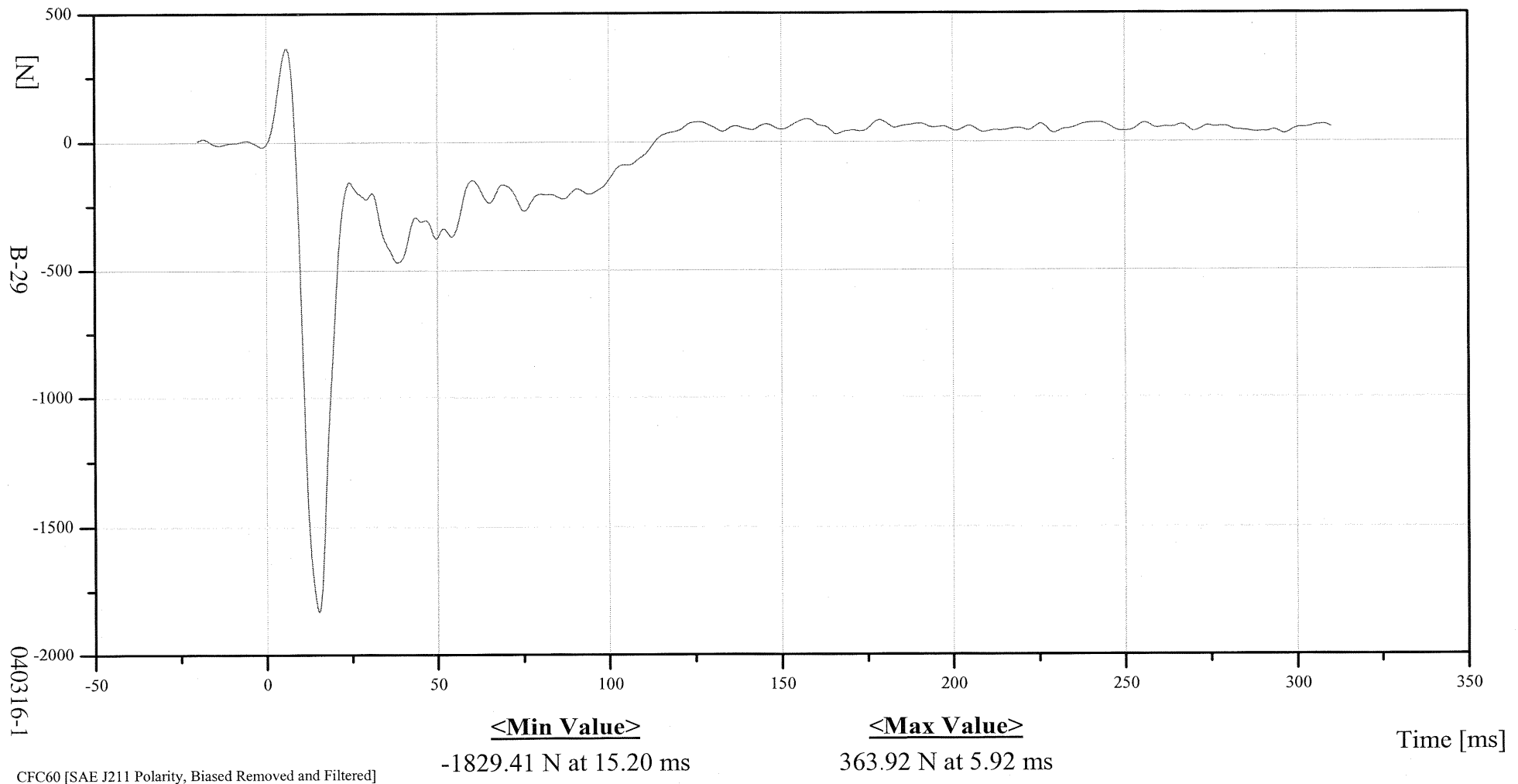
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0204





Transportation Research Center, Inc.

ROW 2 COLUMN 5

Date: 03/16/2004

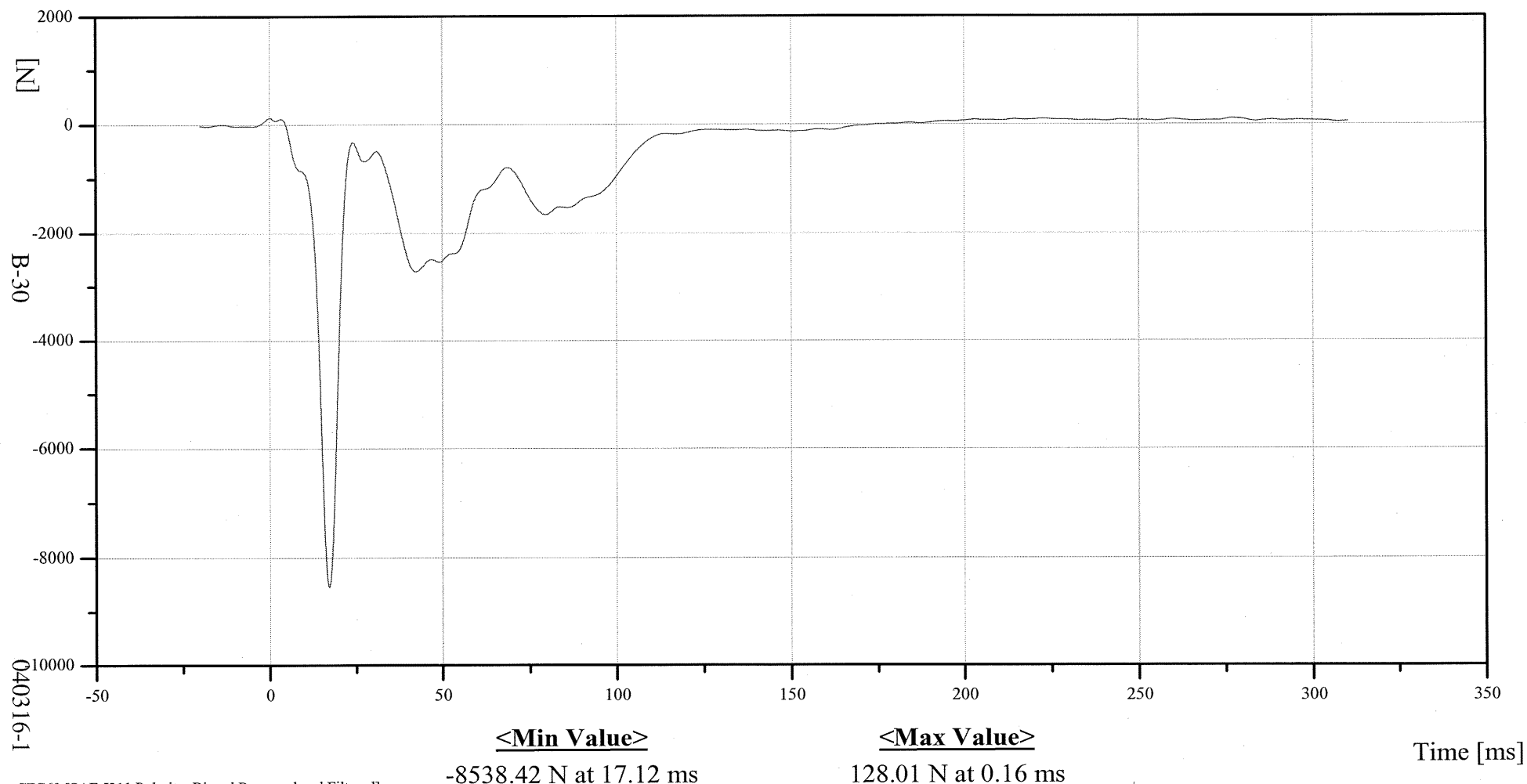
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0205





Transportation Research Center, Inc.

ROW 2 COLUMN 6

Date: 03/16/2004

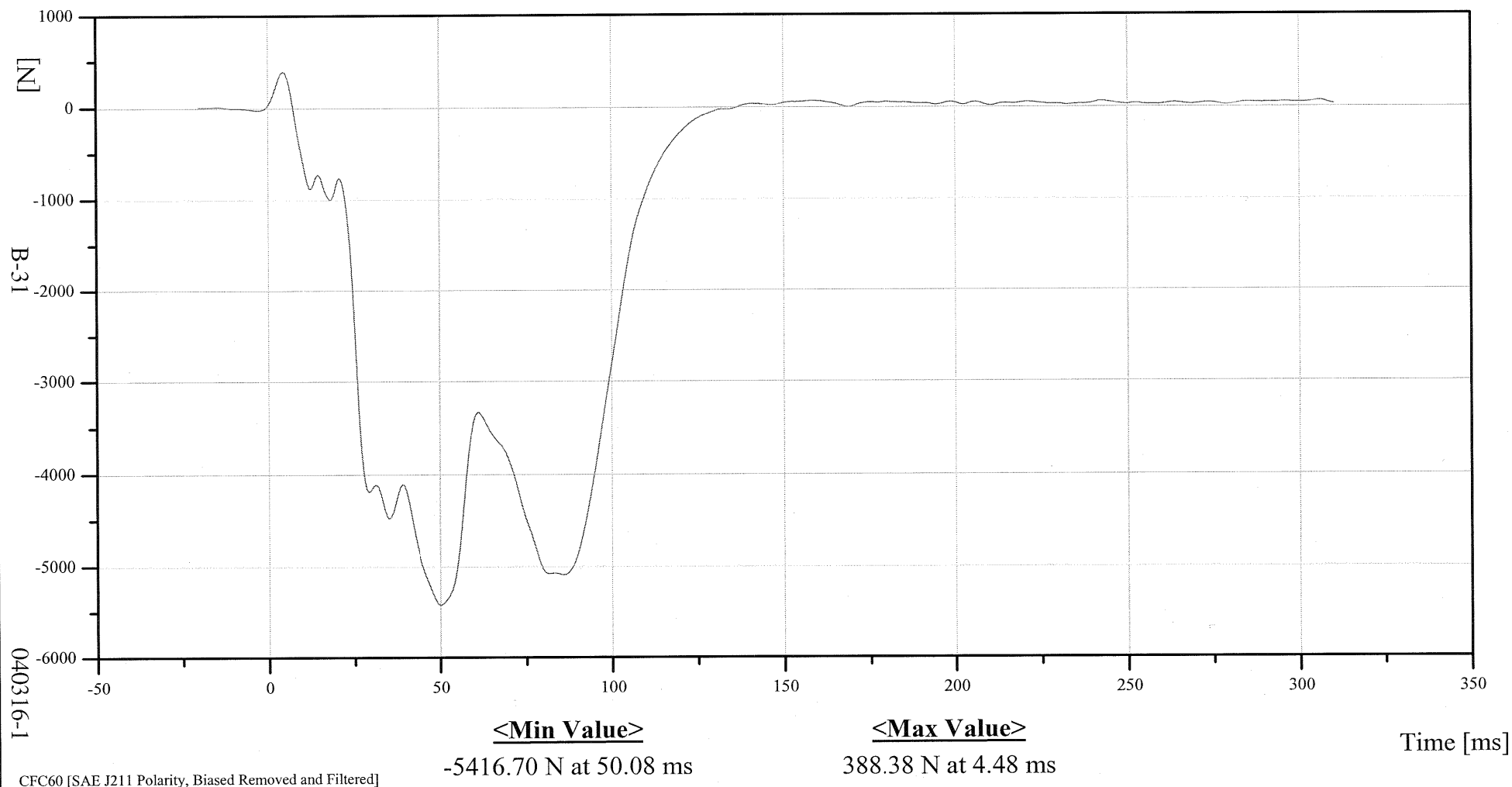
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0206





Transportation Research Center, Inc.

ROW 2 COLUMN 7

Date: 03/16/2004

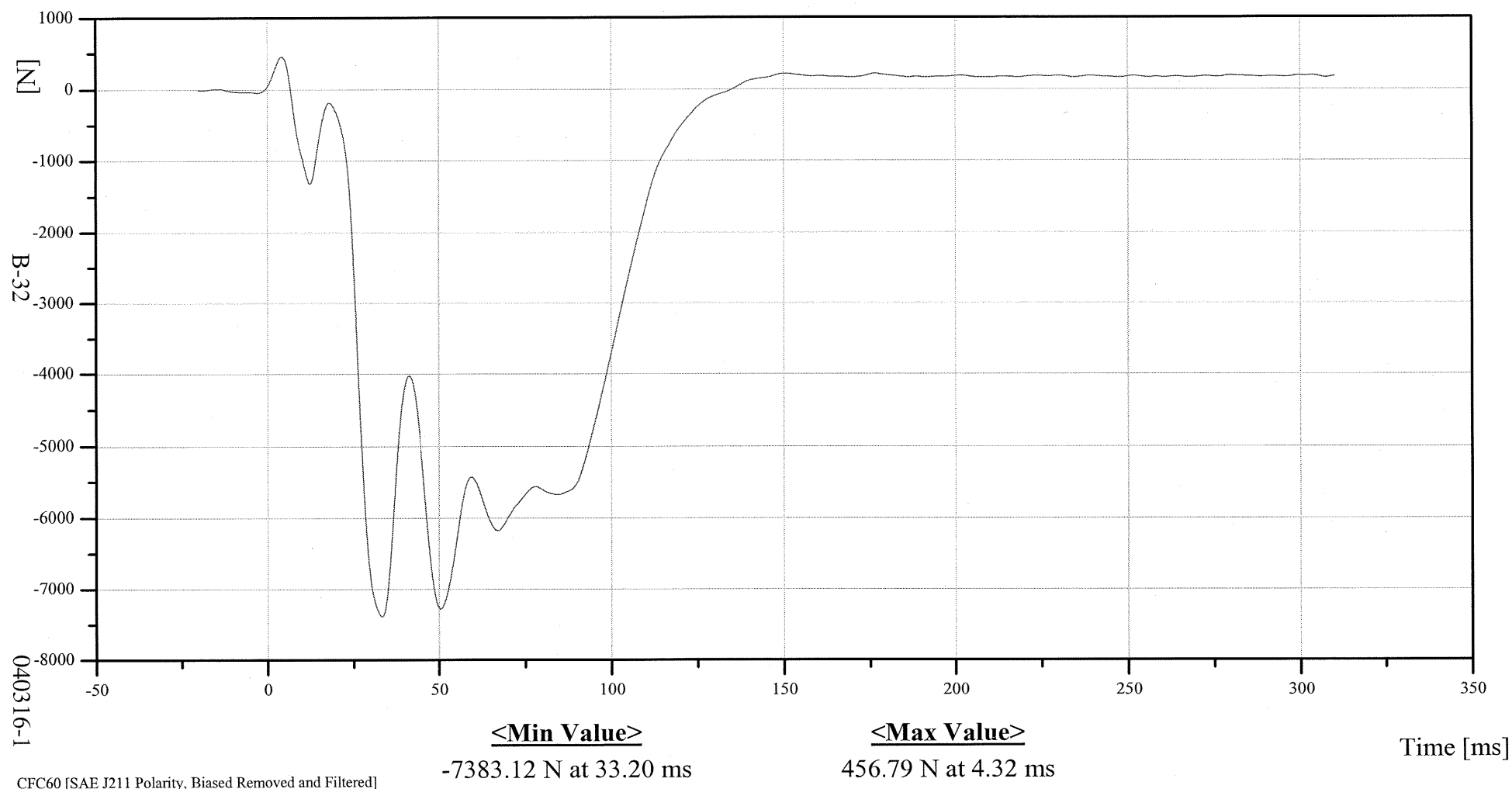
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0207





Transportation Research Center, Inc.

ROW 2 COLUMN 8

Date: 03/16/2004

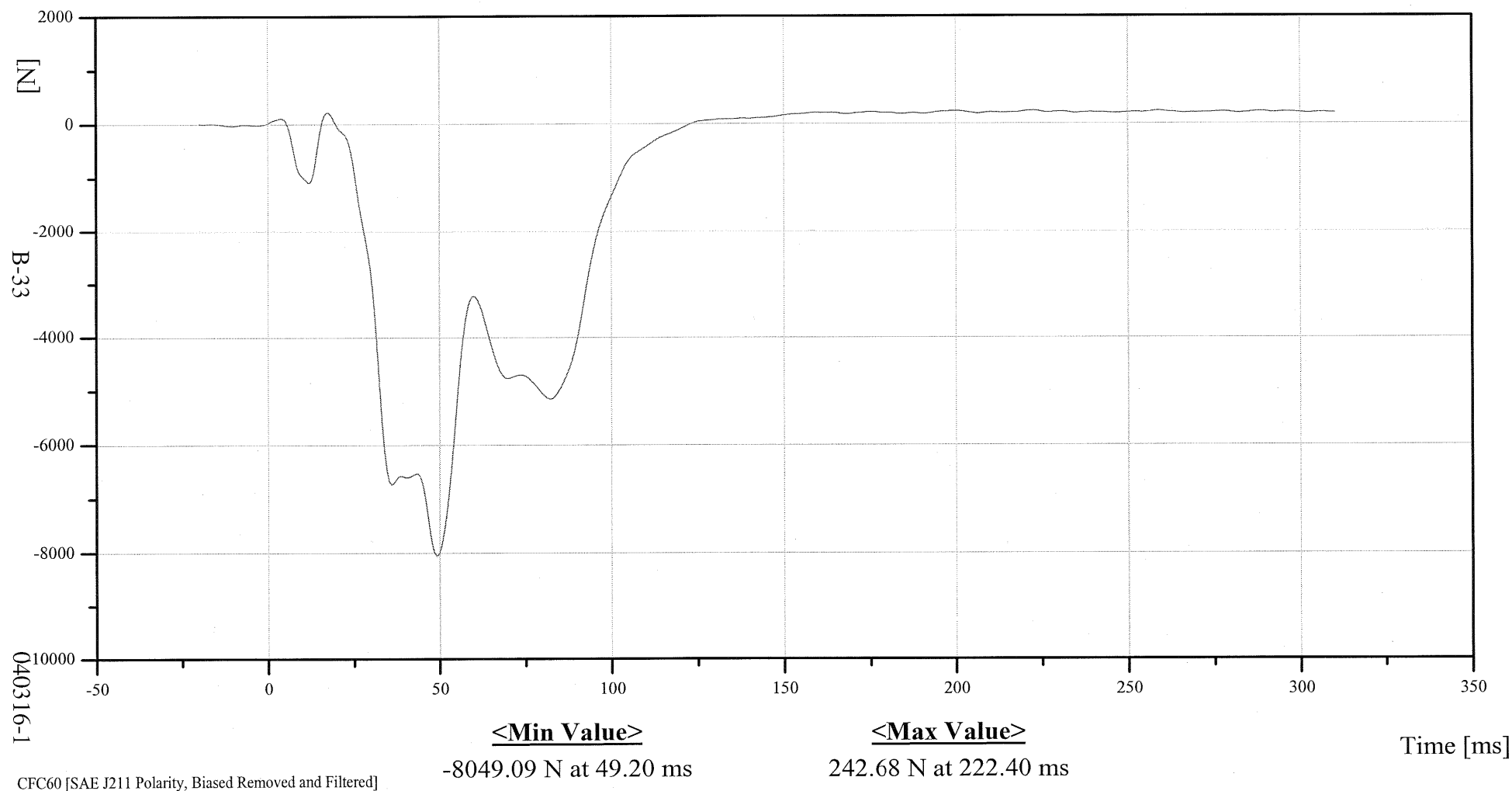
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0208





Transportation Research Center, Inc.

ROW 2 COLUMN 9

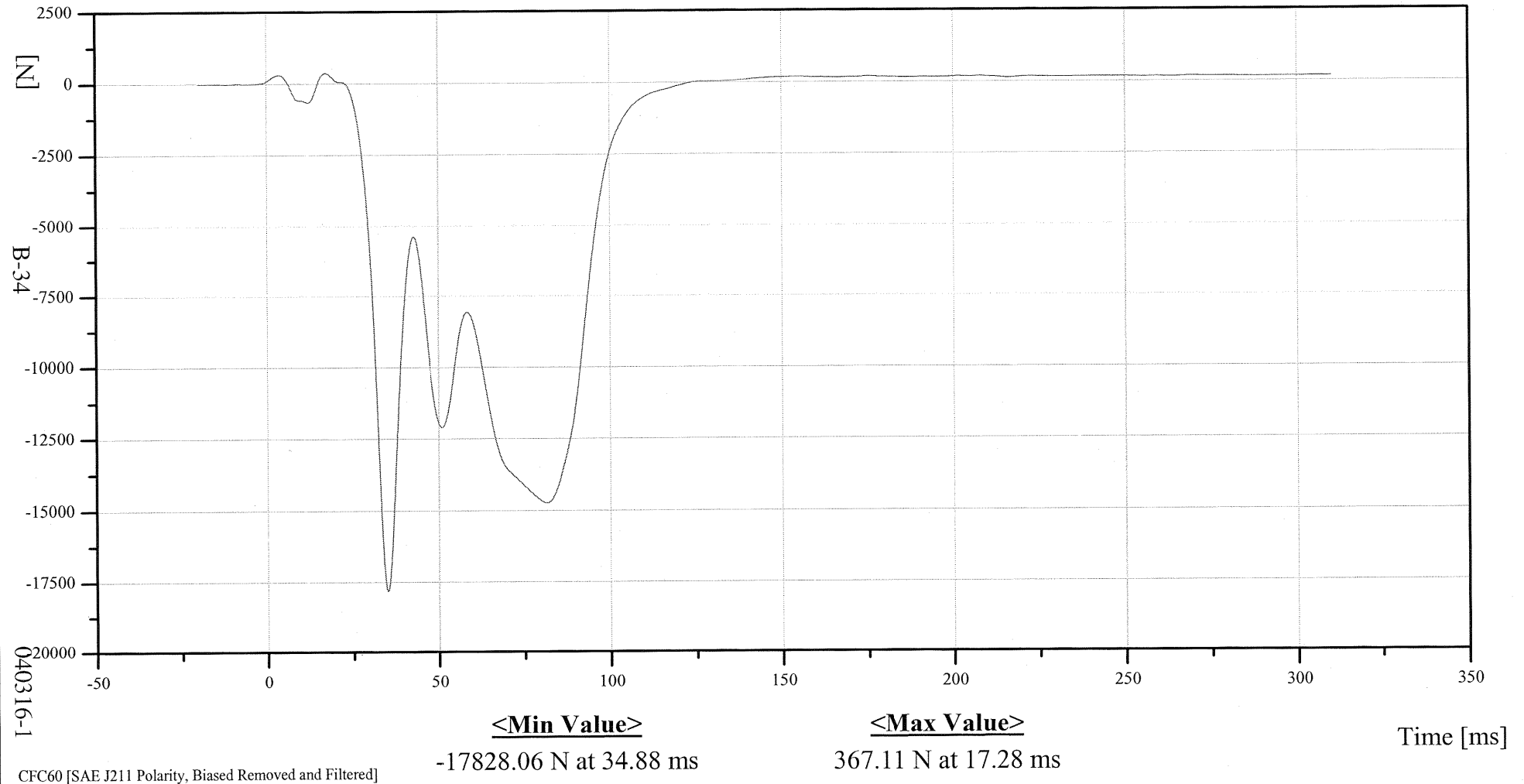
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0209





Transportation Research Center, Inc.

ROW 2 COLUMN 10

Date: 03/16/2004

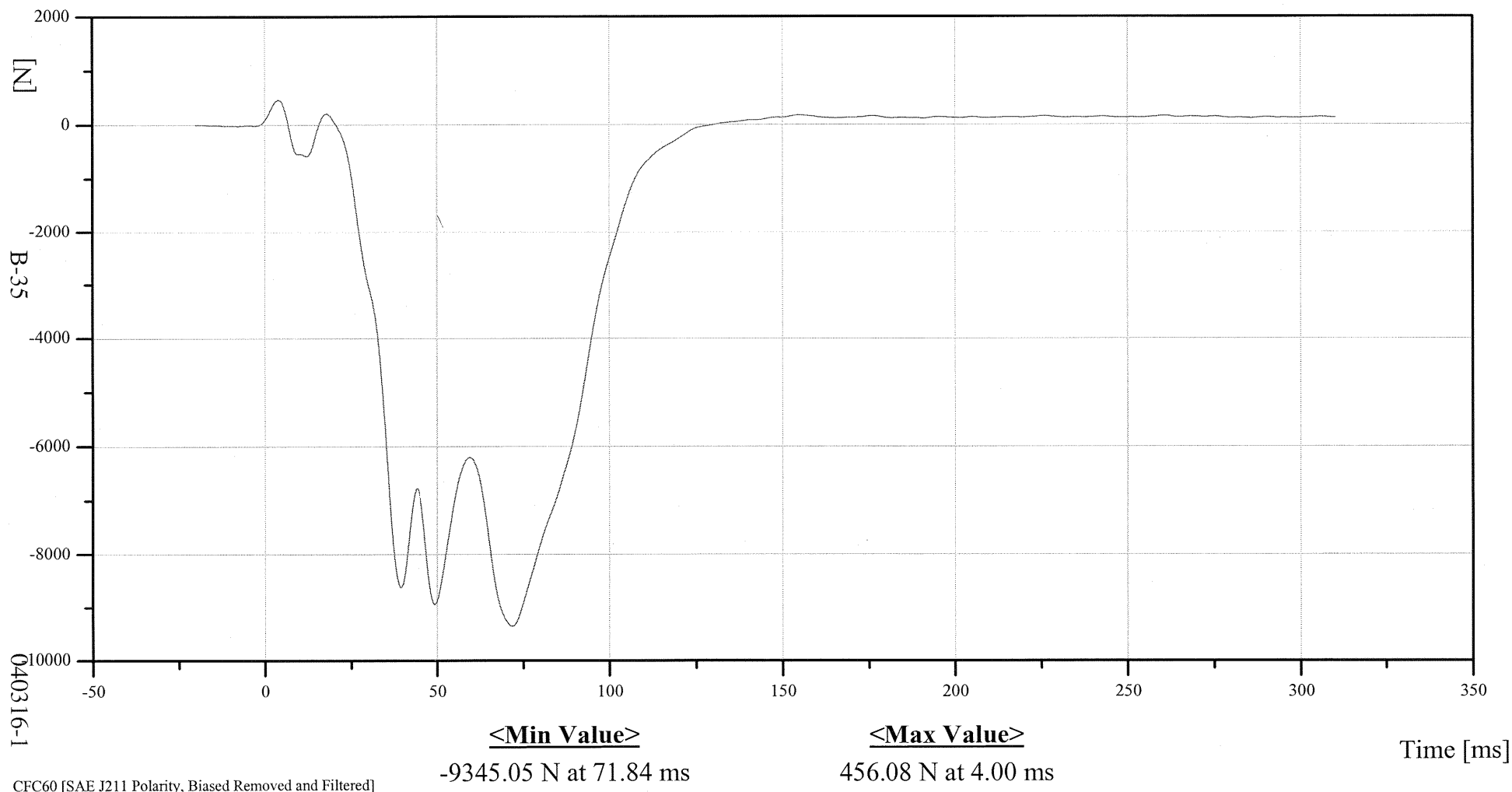
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0210





Transportation Research Center, Inc.

ROW 2 COLUMN 11

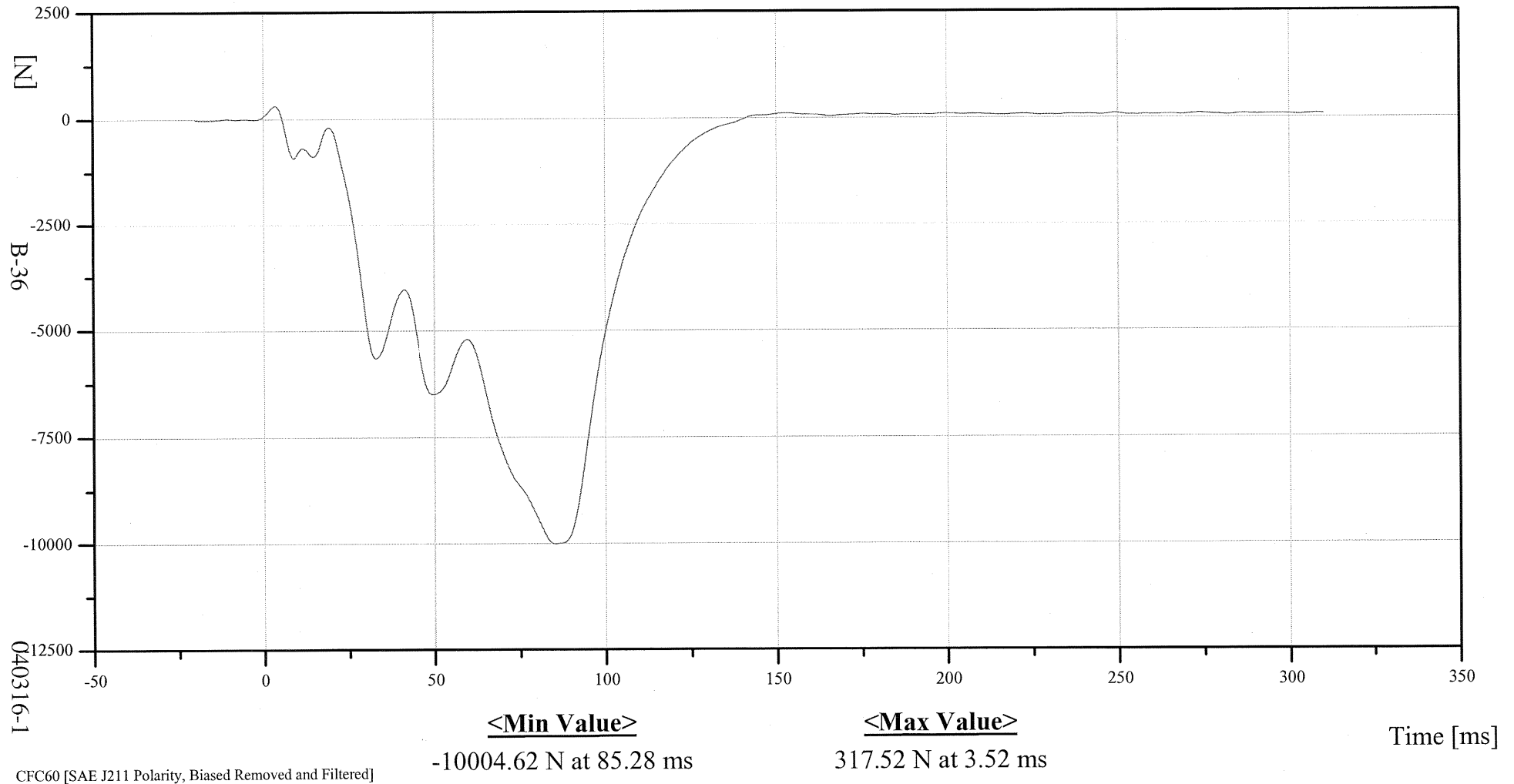
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0211





Transportation Research Center, Inc.

ROW 2 COLUMN 12

Date: 03/16/2004

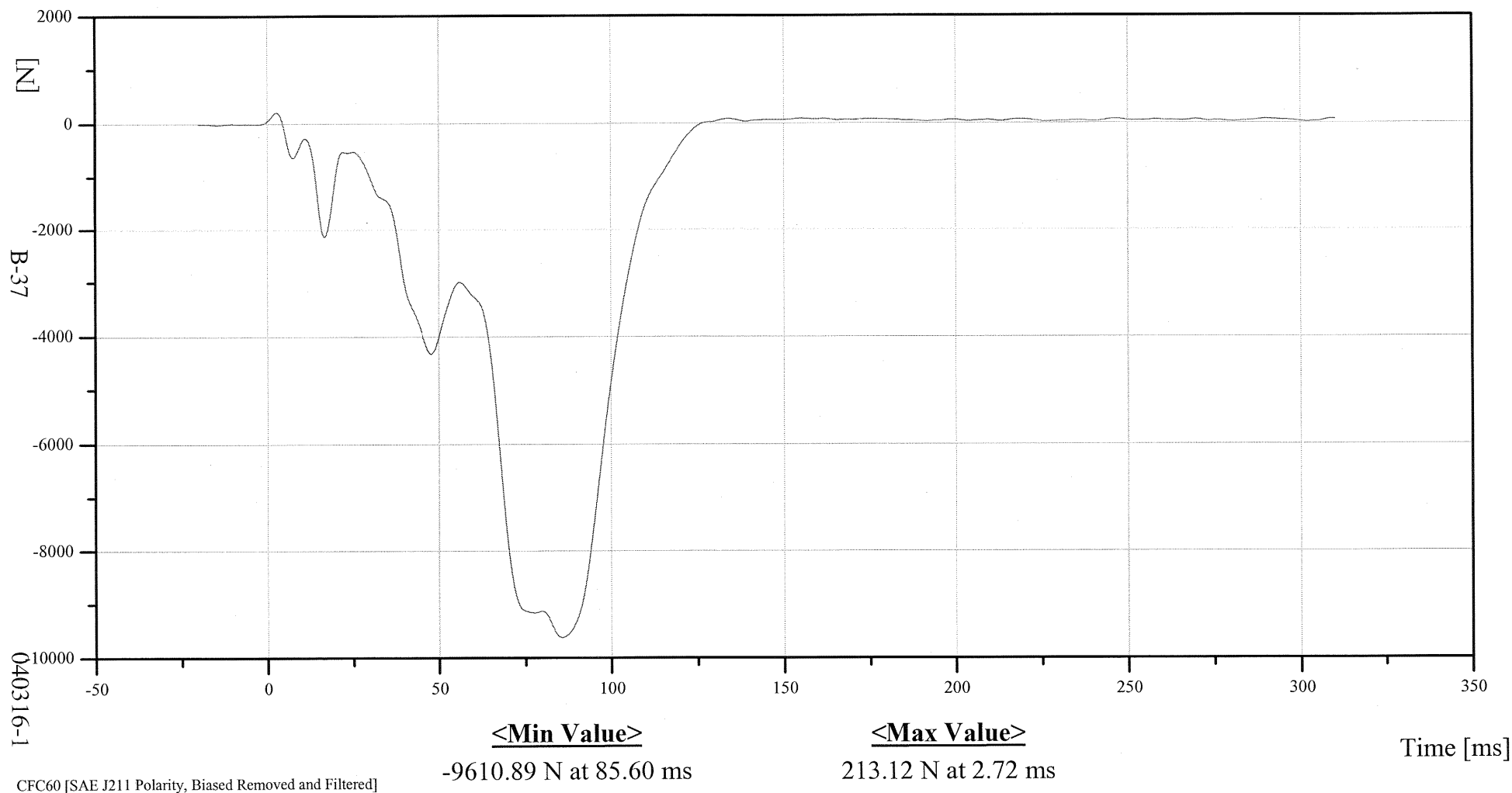
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0212





Transportation Research Center, Inc.

ROW 2 COLUMN 13

Date: 03/16/2004

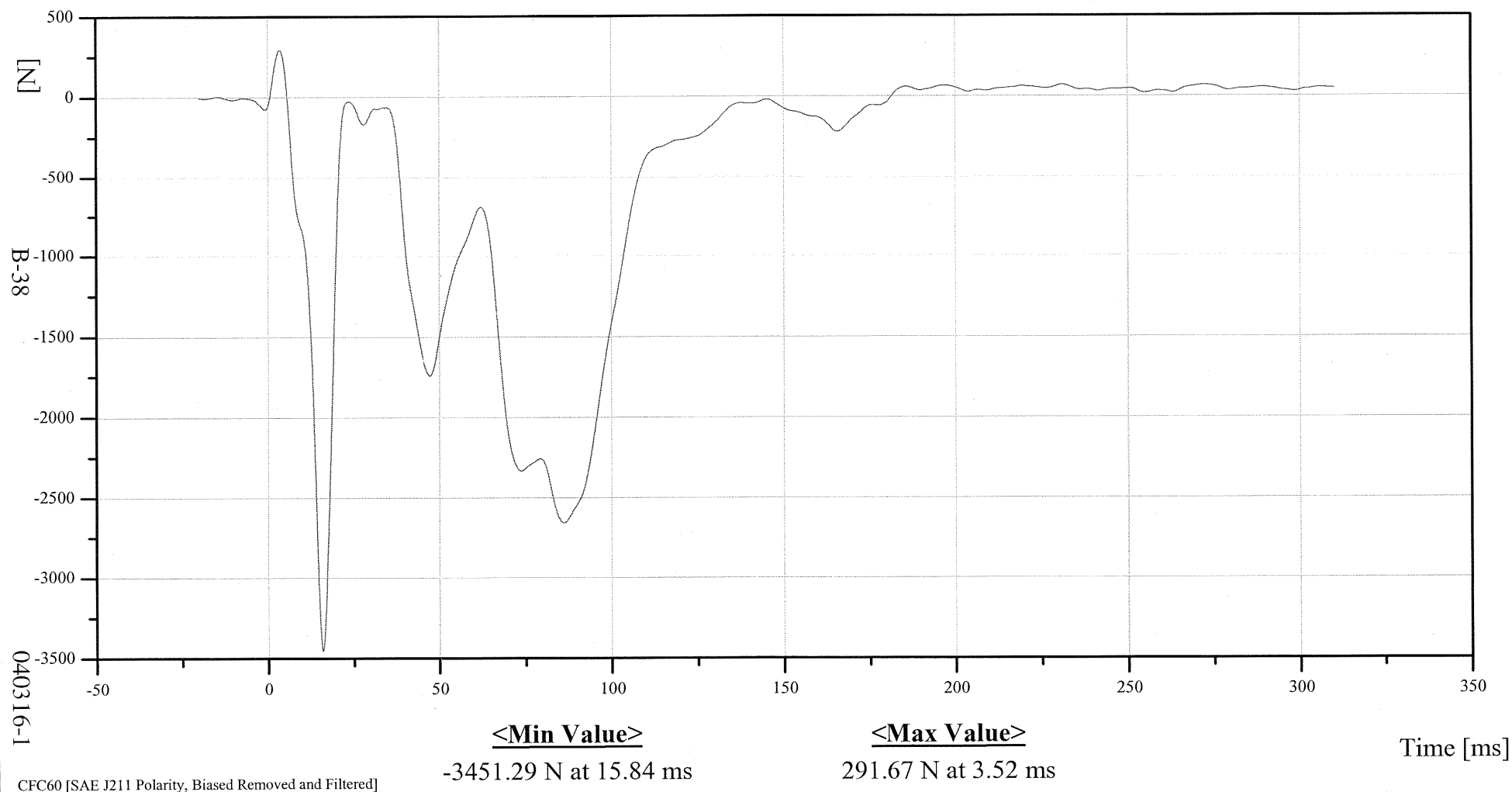
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0213





Transportation Research Center, Inc.

ROW 2 COLUMN 14

Date: 03/16/2004

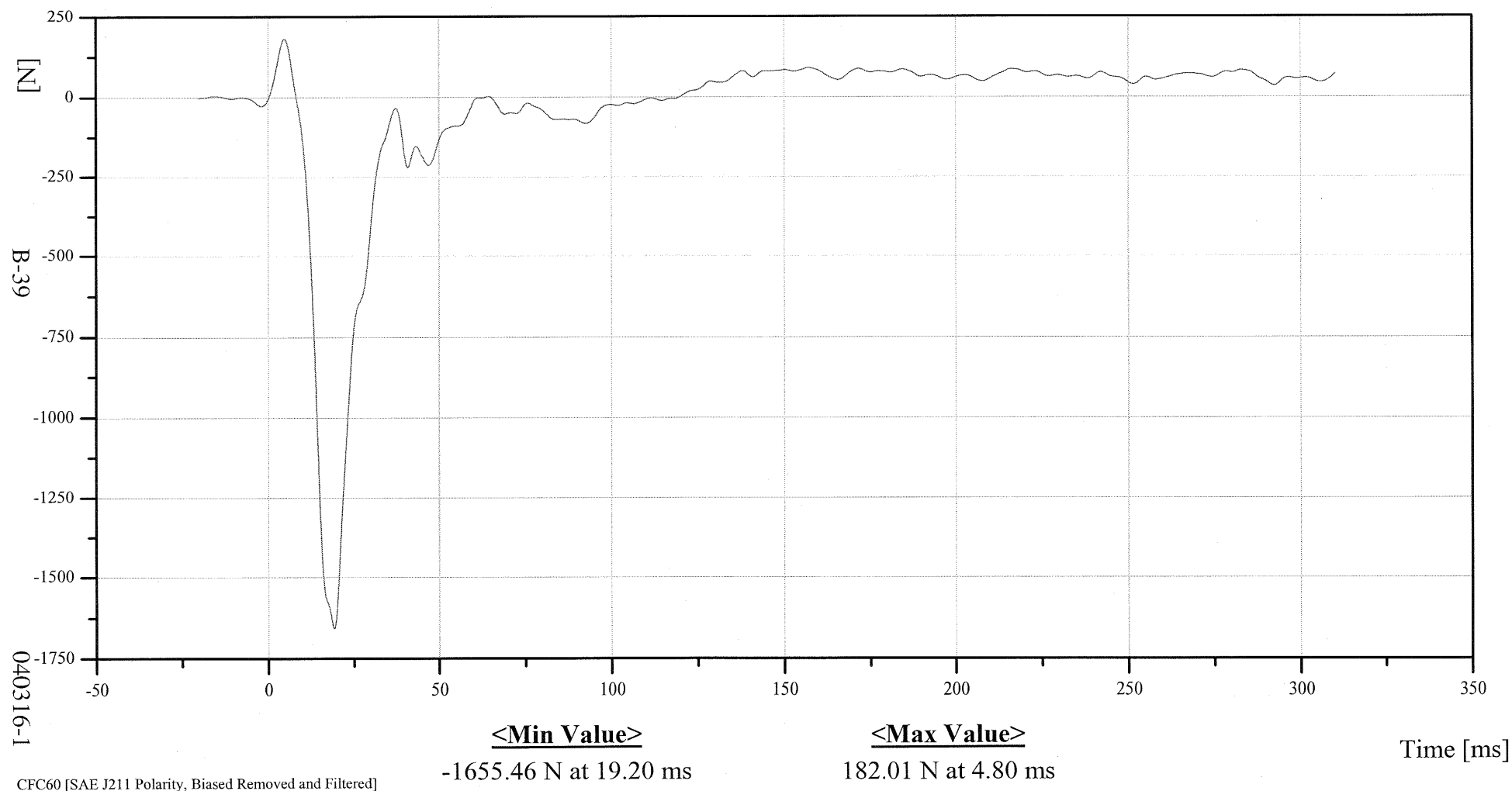
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0214





Transportation Research Center, Inc.

ROW 2 COLUMN 15

Date: 03/16/2004

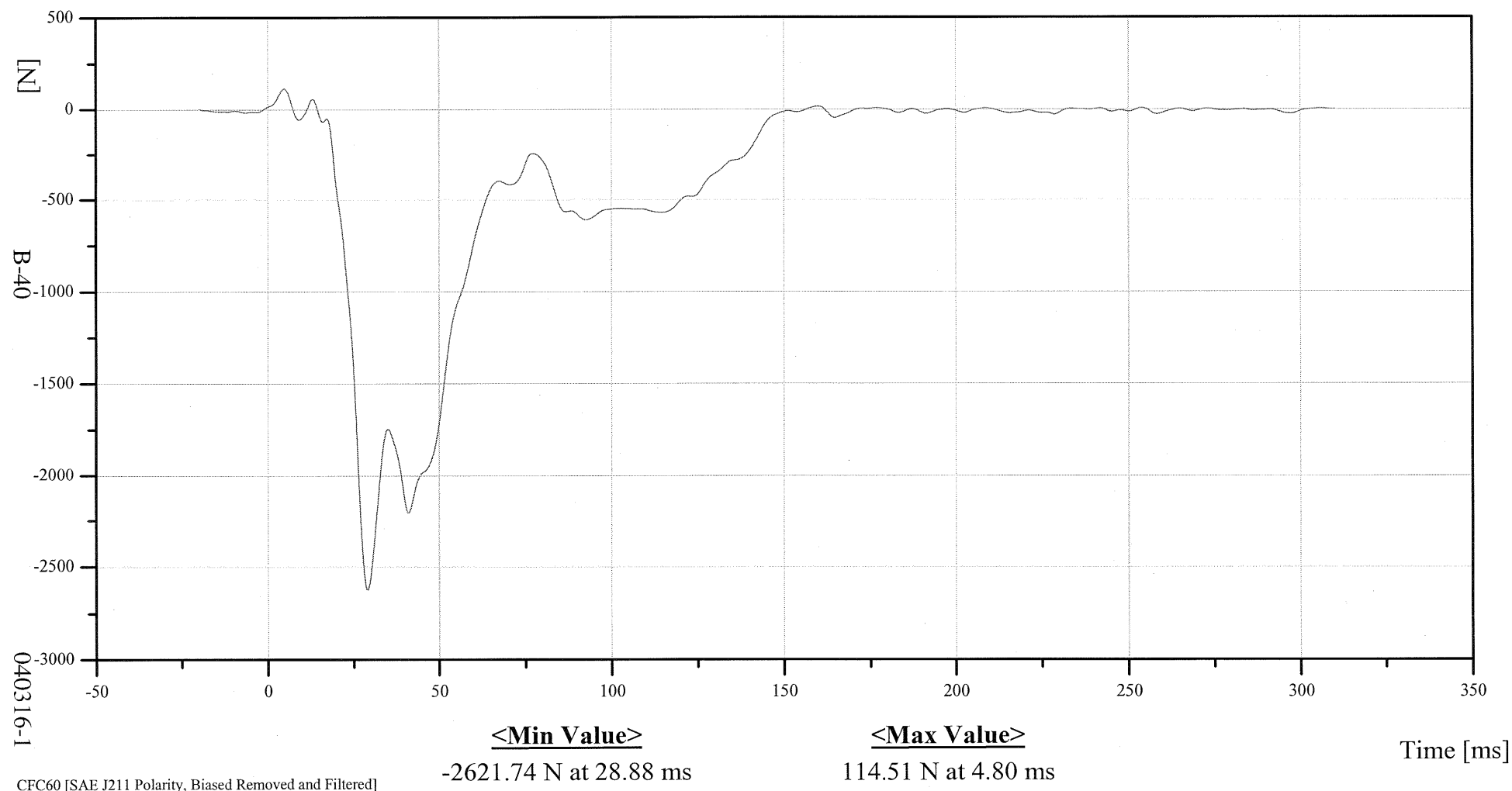
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0215





Transportation Research Center, Inc.

ROW 2 COLUMN 16

Date: 03/16/2004

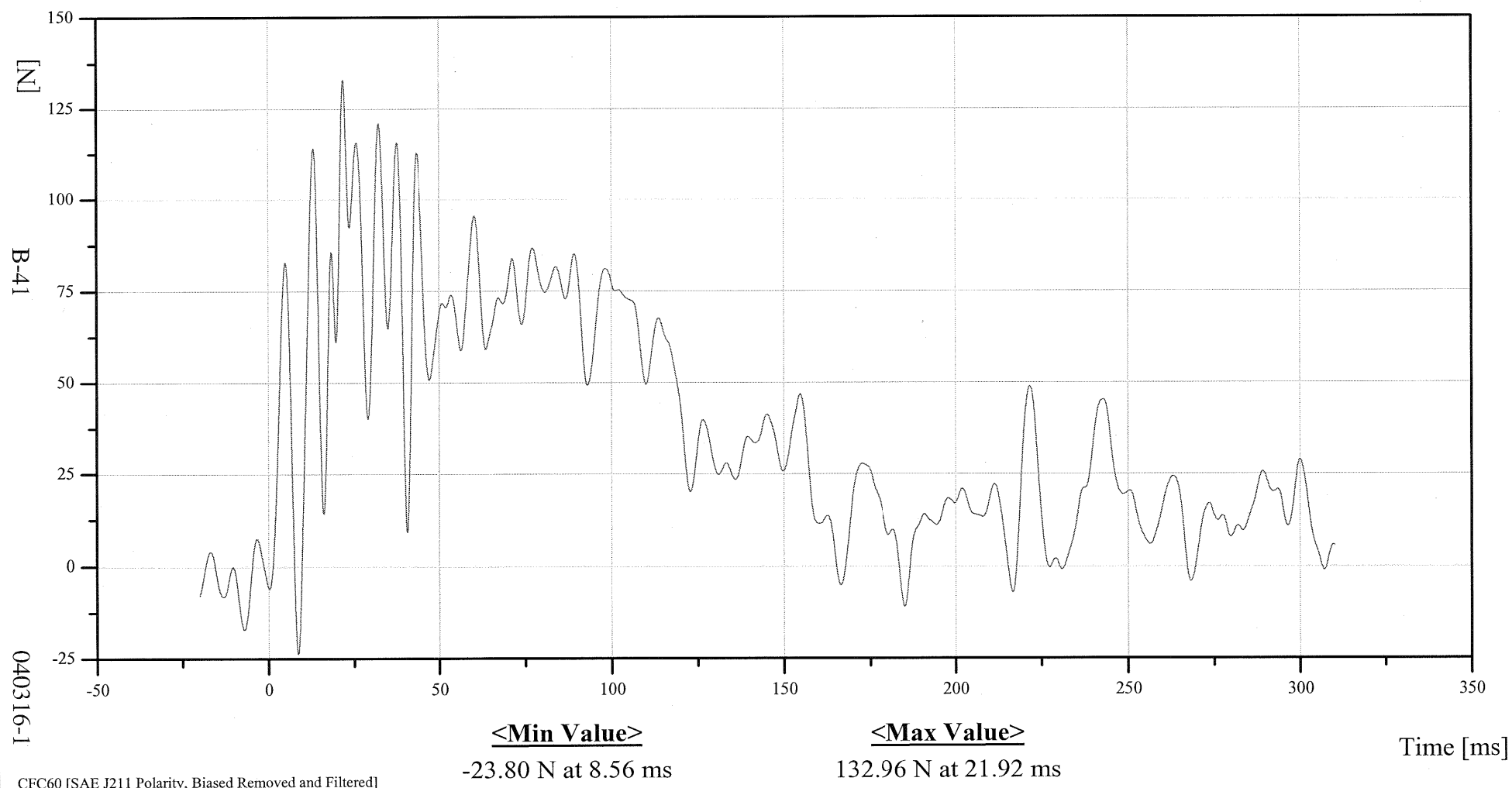
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0216





Transportation Research Center, Inc.

ROW 3 COLUMN 1

Date: 03/16/2004

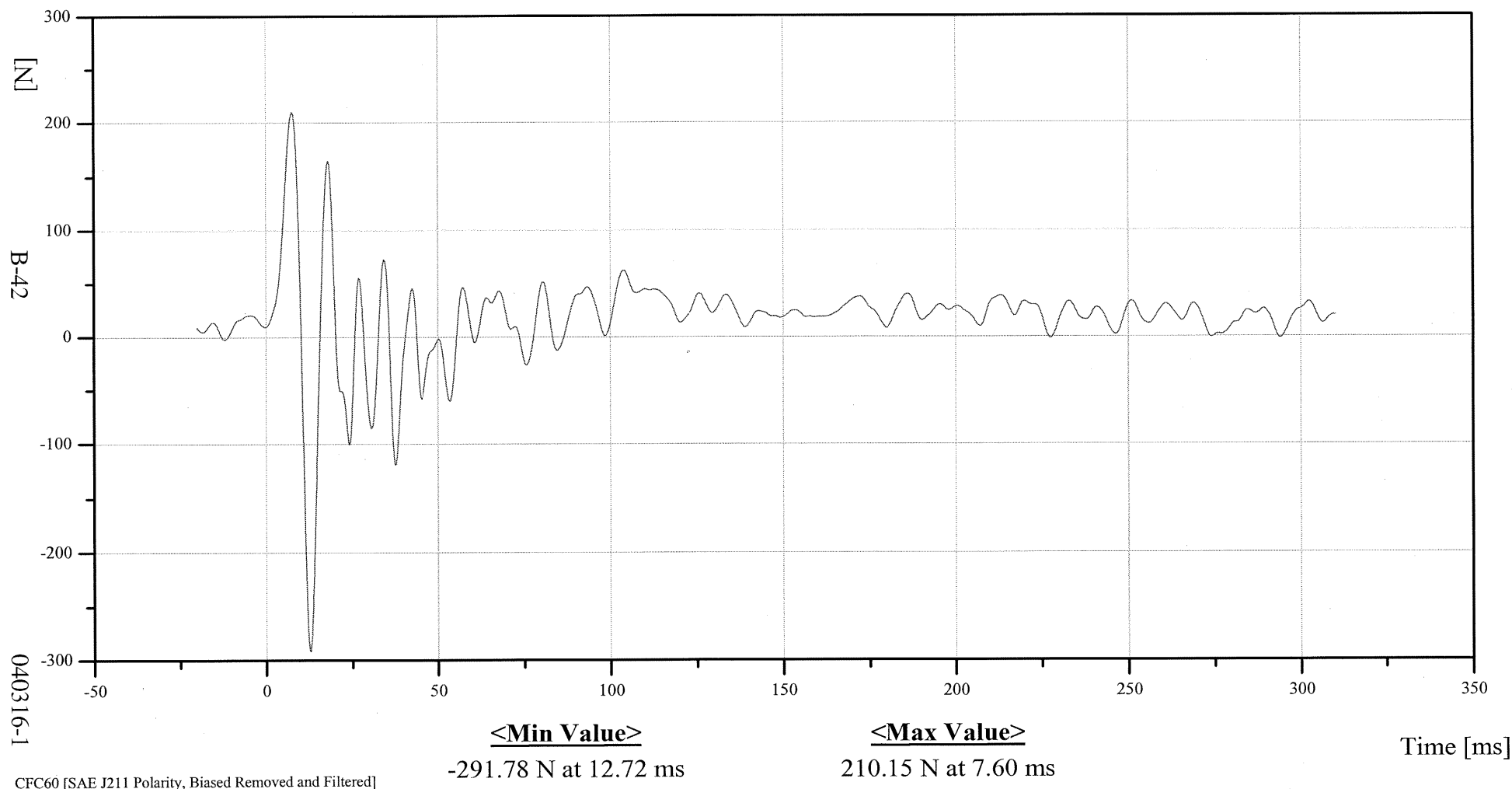
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0301





Transportation Research Center, Inc.

ROW 3 COLUMN 2

Date: 03/16/2004

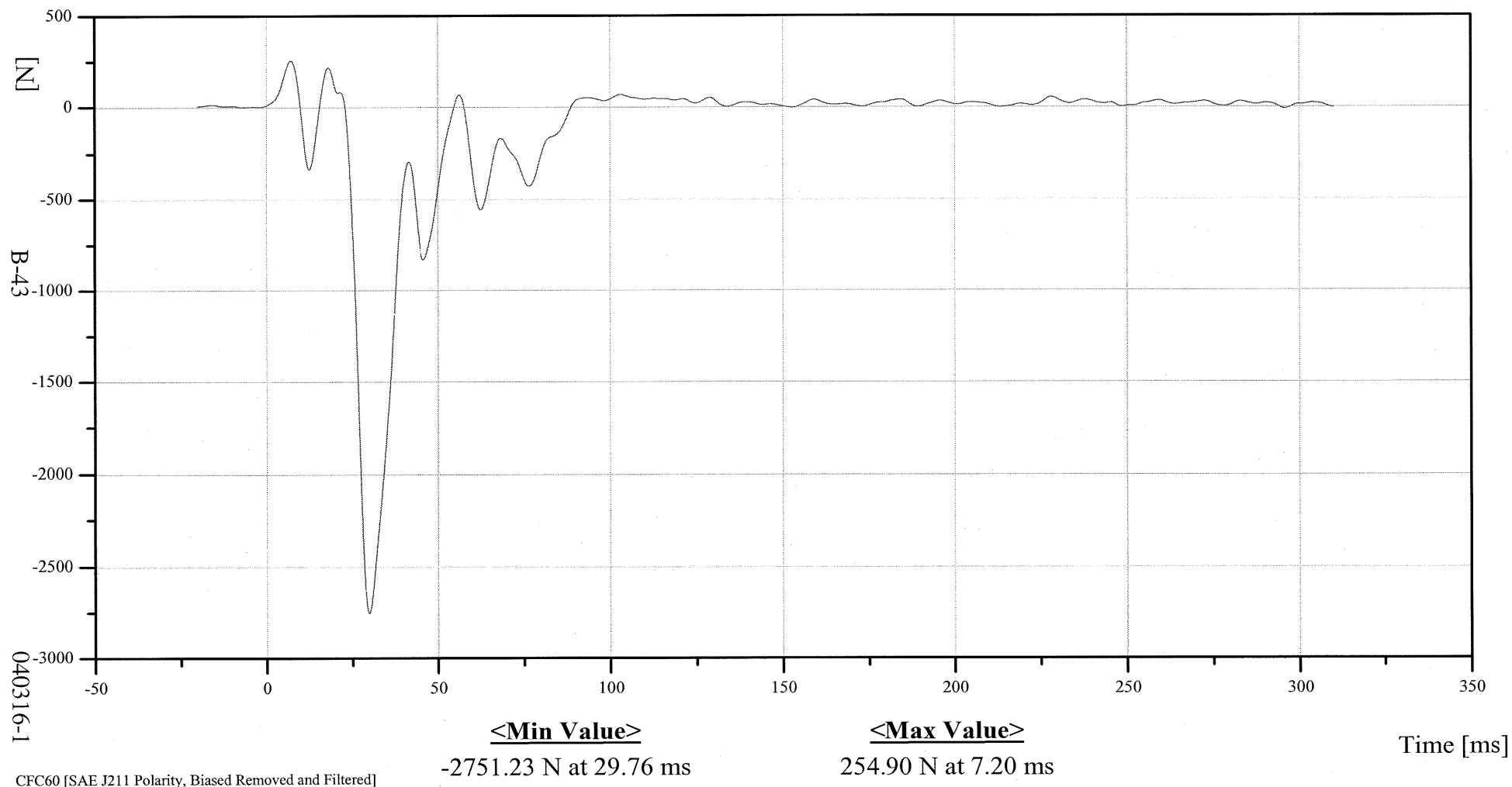
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0302





Transportation Research Center, Inc.

ROW 3 COLUMN 3

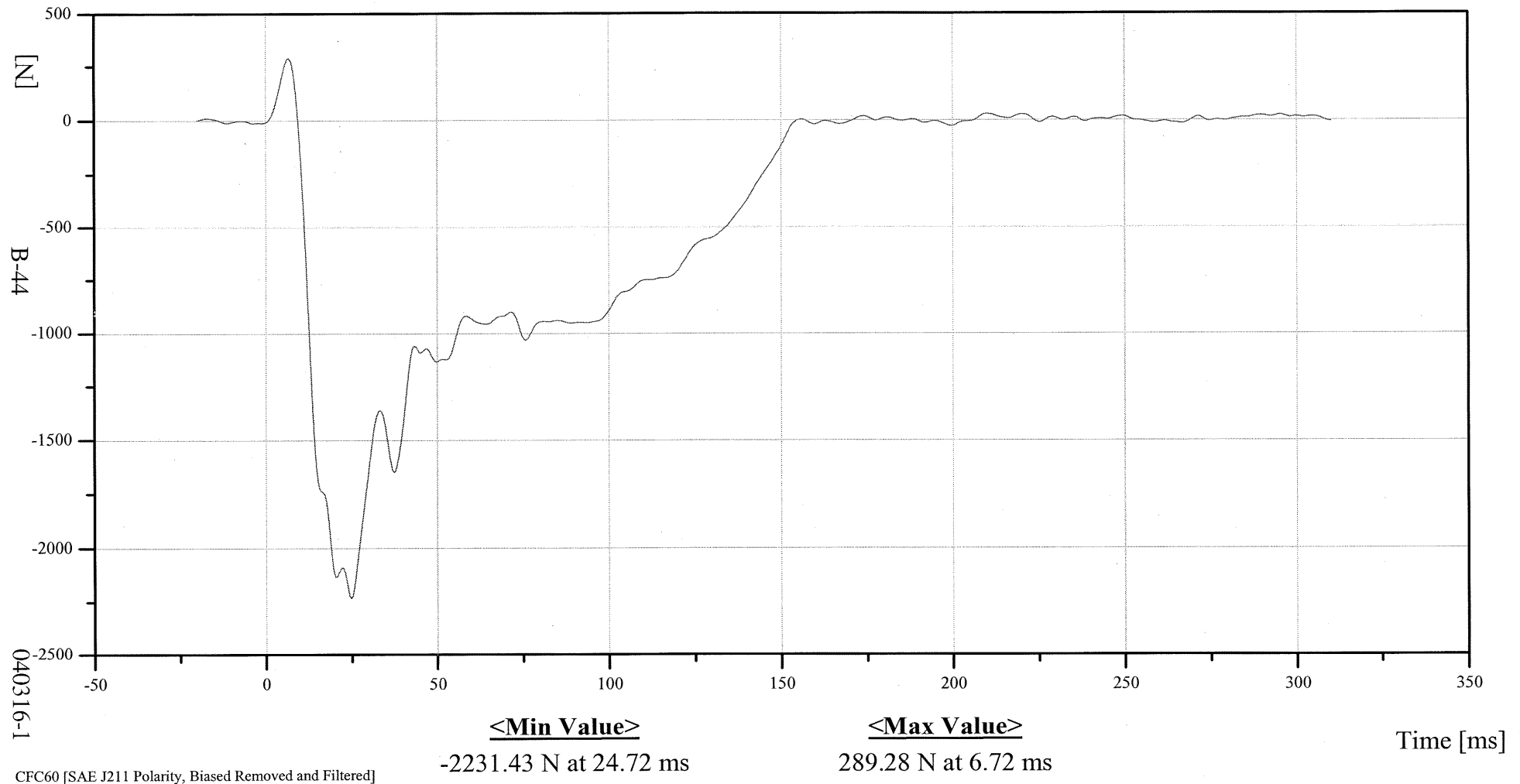
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0303





Transportation Research Center, Inc.

ROW 3 COLUMN 4

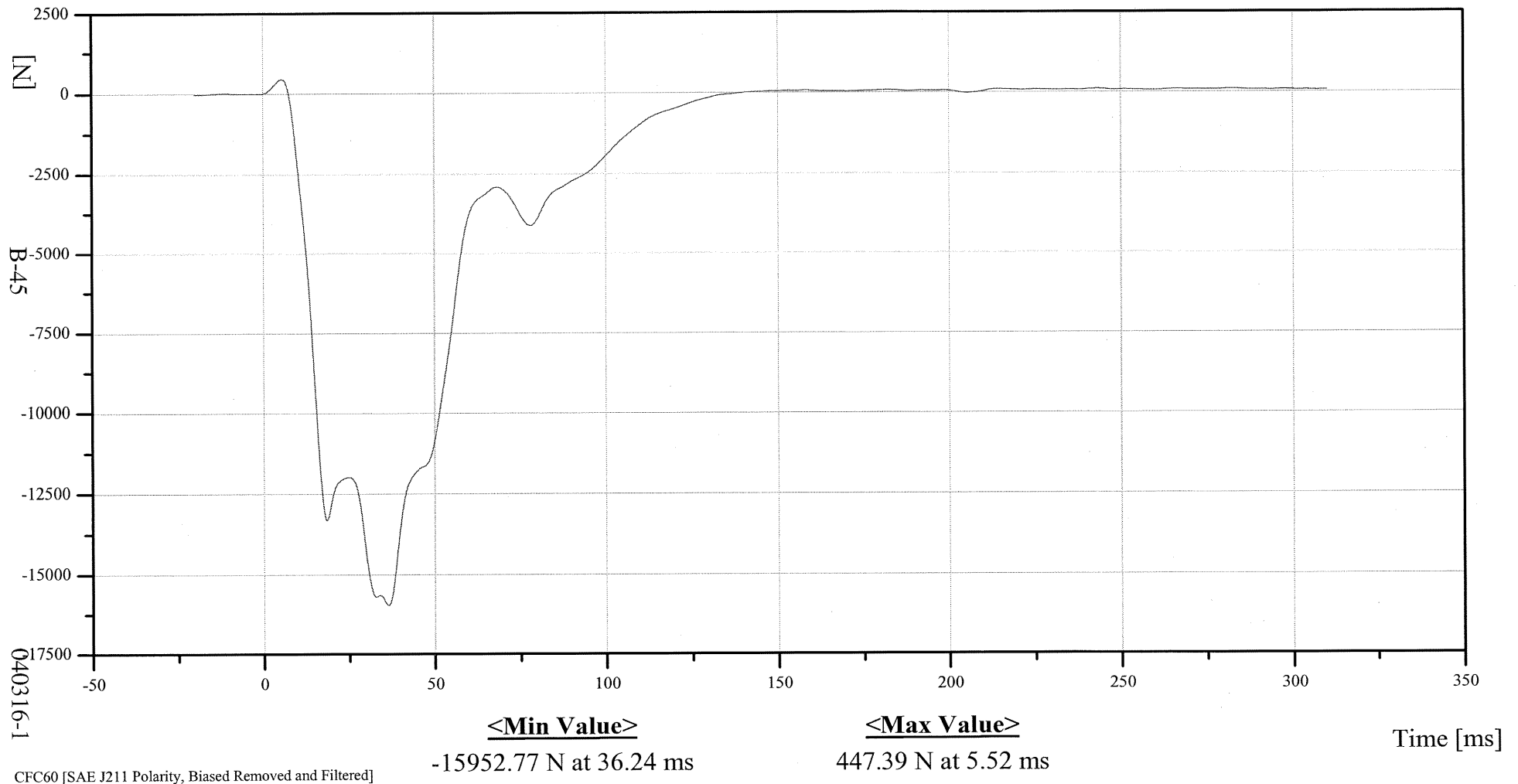
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0304





Transportation Research Center, Inc.

ROW 3 COLUMN 5

Date: 03/16/2004

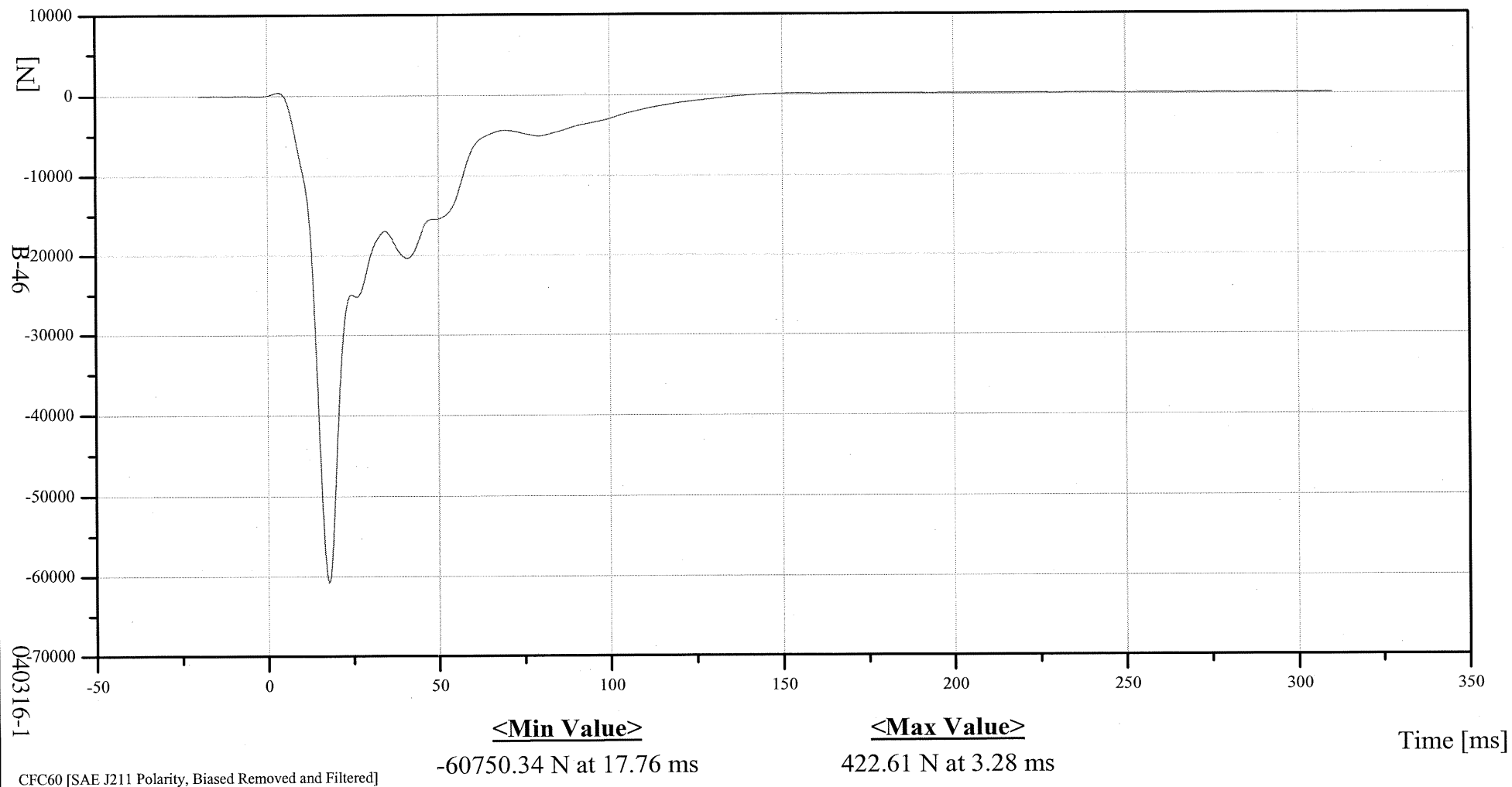
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0305





Transportation Research Center, Inc.

ROW 3 COLUMN 6

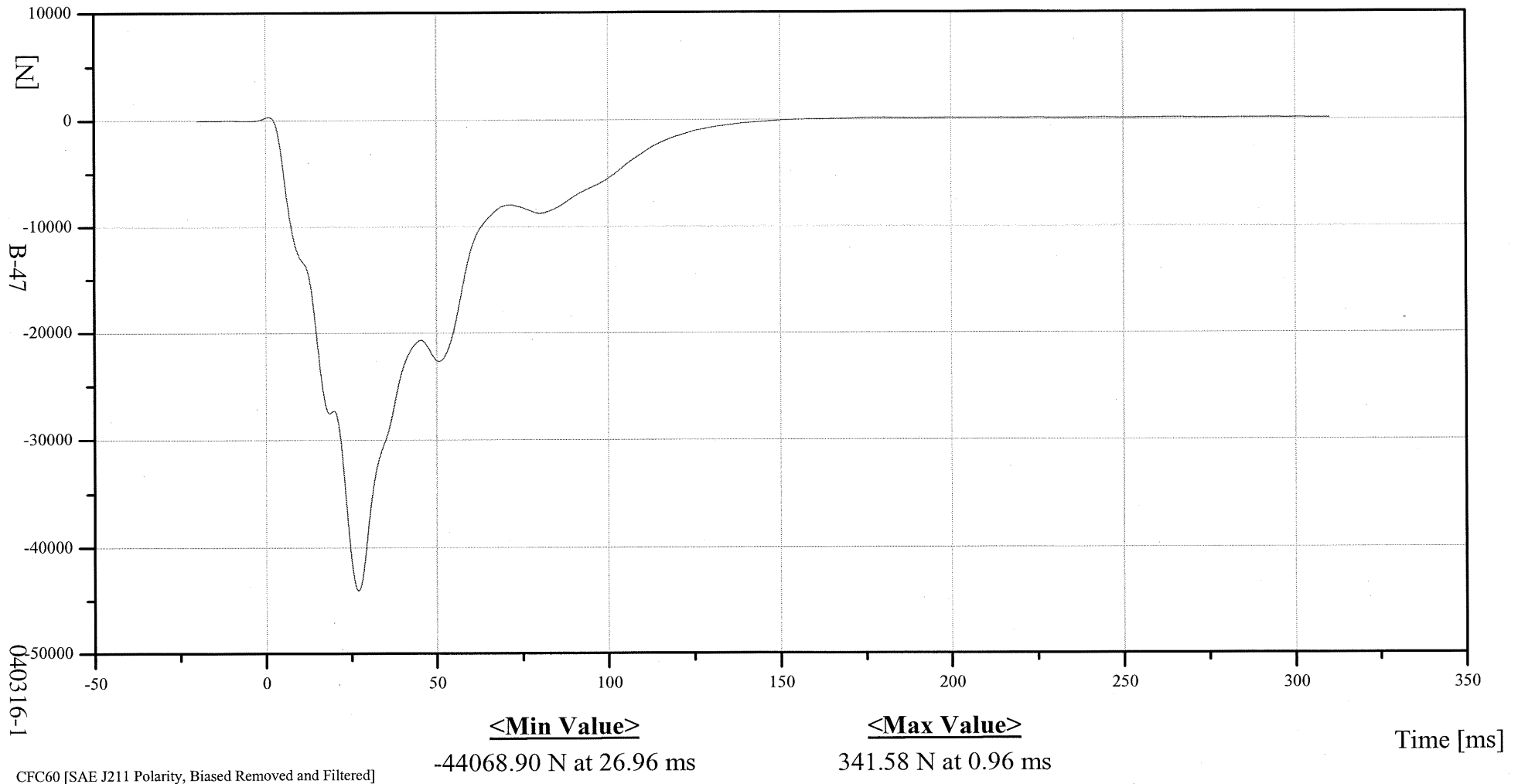
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0306





Transportation Research Center, Inc.

ROW 3 COLUMN 7

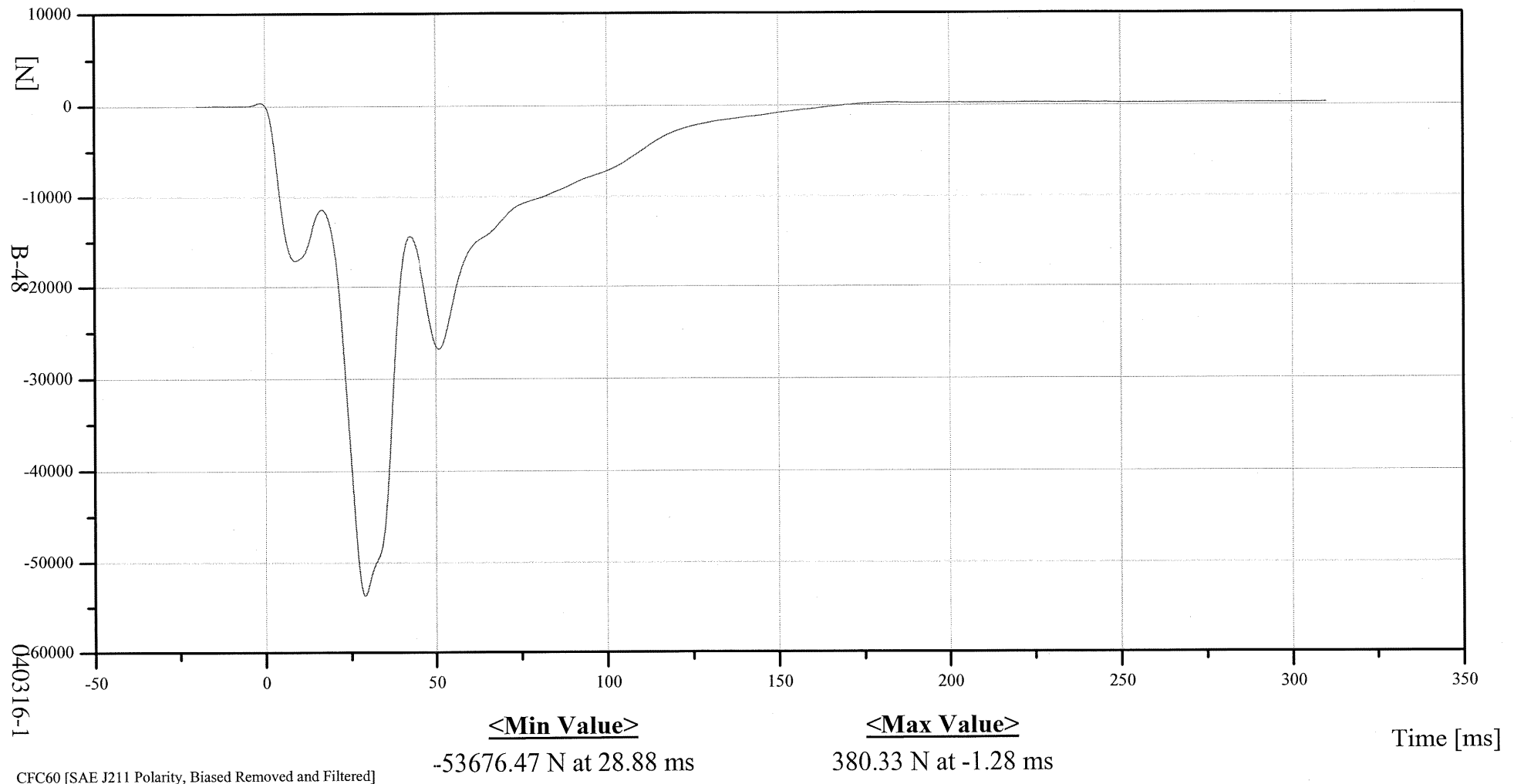
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0307





Transportation Research Center, Inc.

ROW 3 COLUMN 8

Date: 03/16/2004

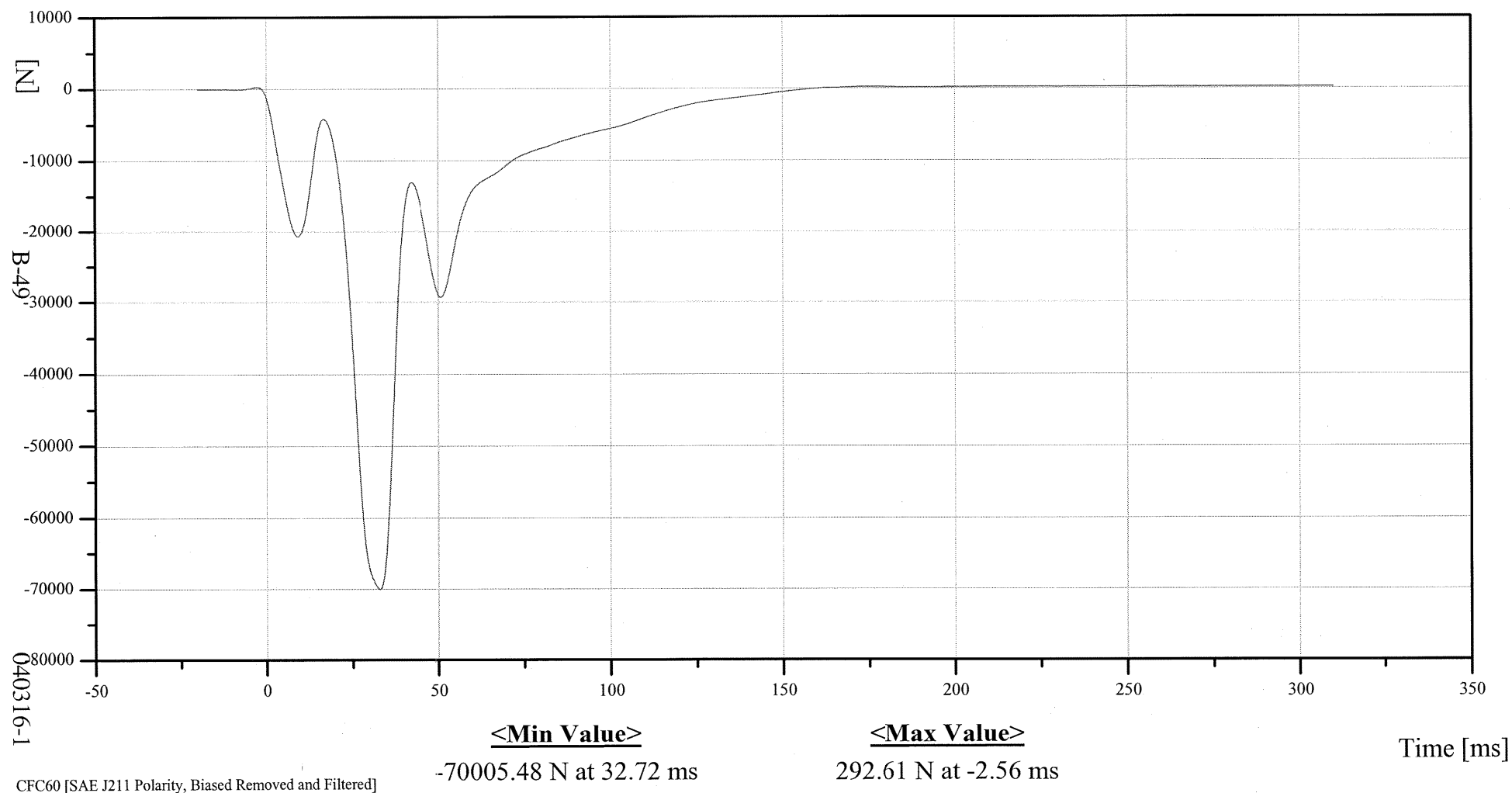
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0308





Transportation Research Center, Inc.

ROW 3 COLUMN 9

Date: 03/16/2004

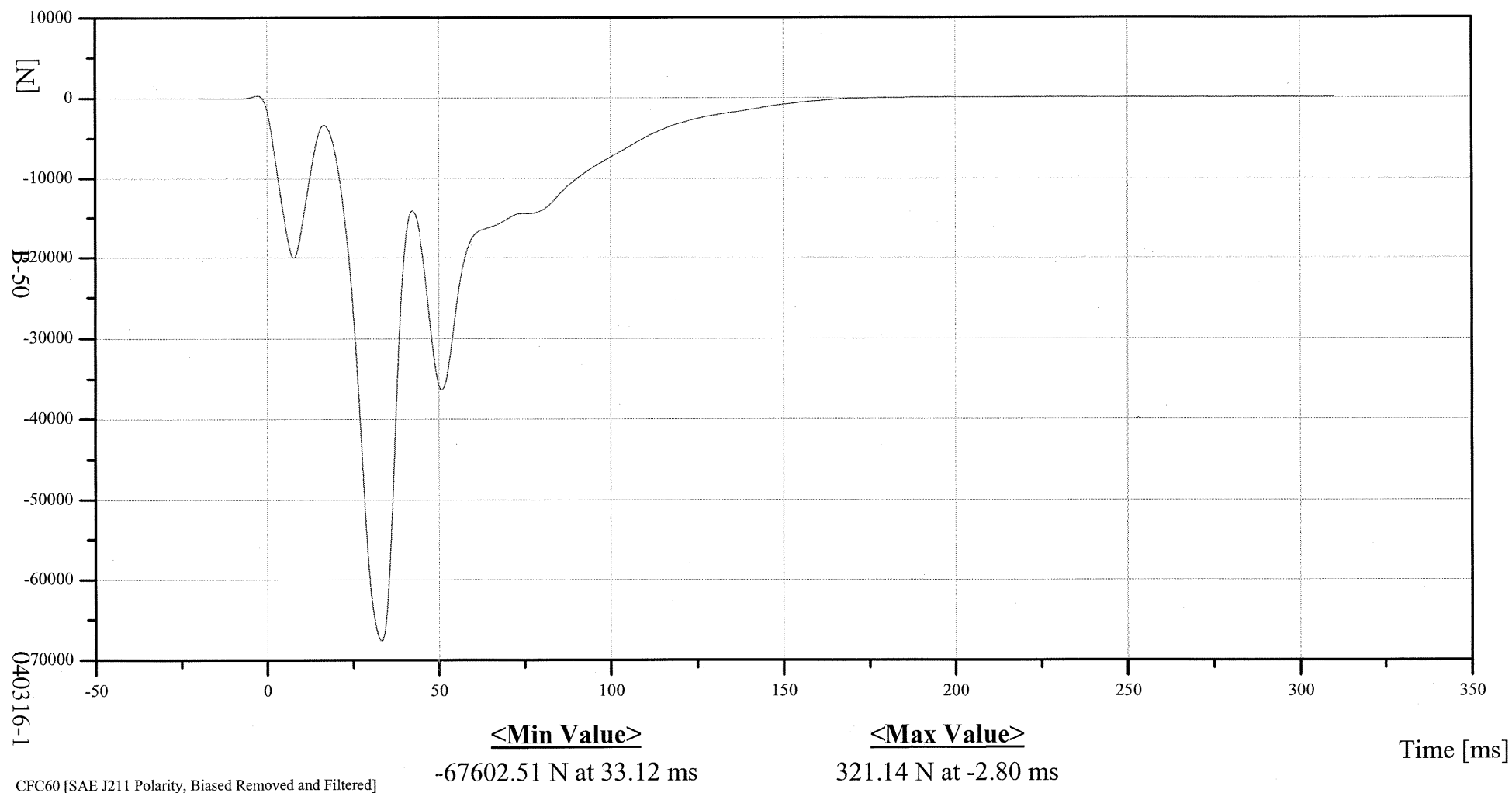
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0309





Transportation Research Center, Inc.

ROW 3 COLUMN 10

Date: 03/16/2004

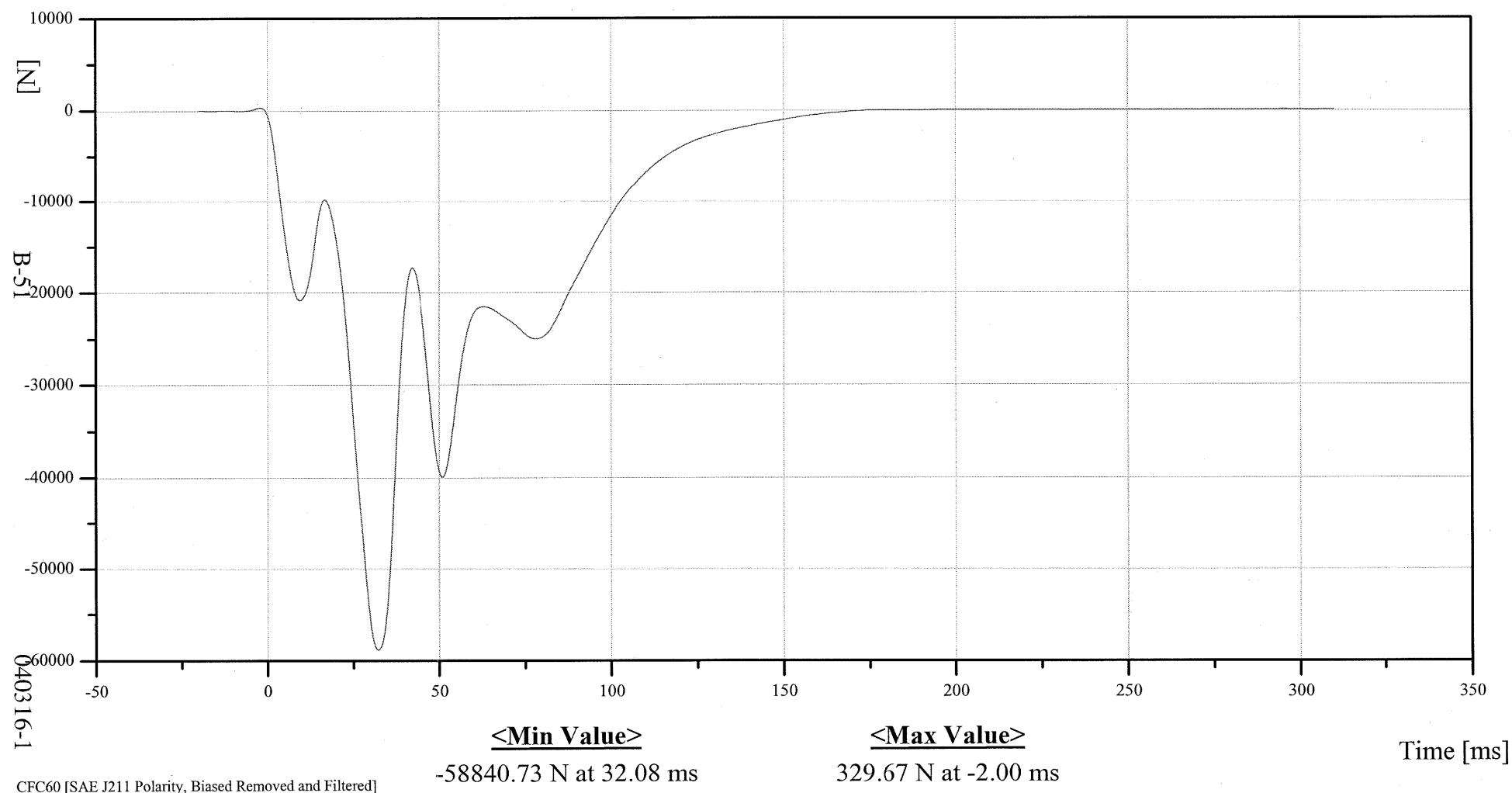
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0310





Transportation Research Center, Inc.

ROW 3 COLUMN 11

Date: 03/16/2004

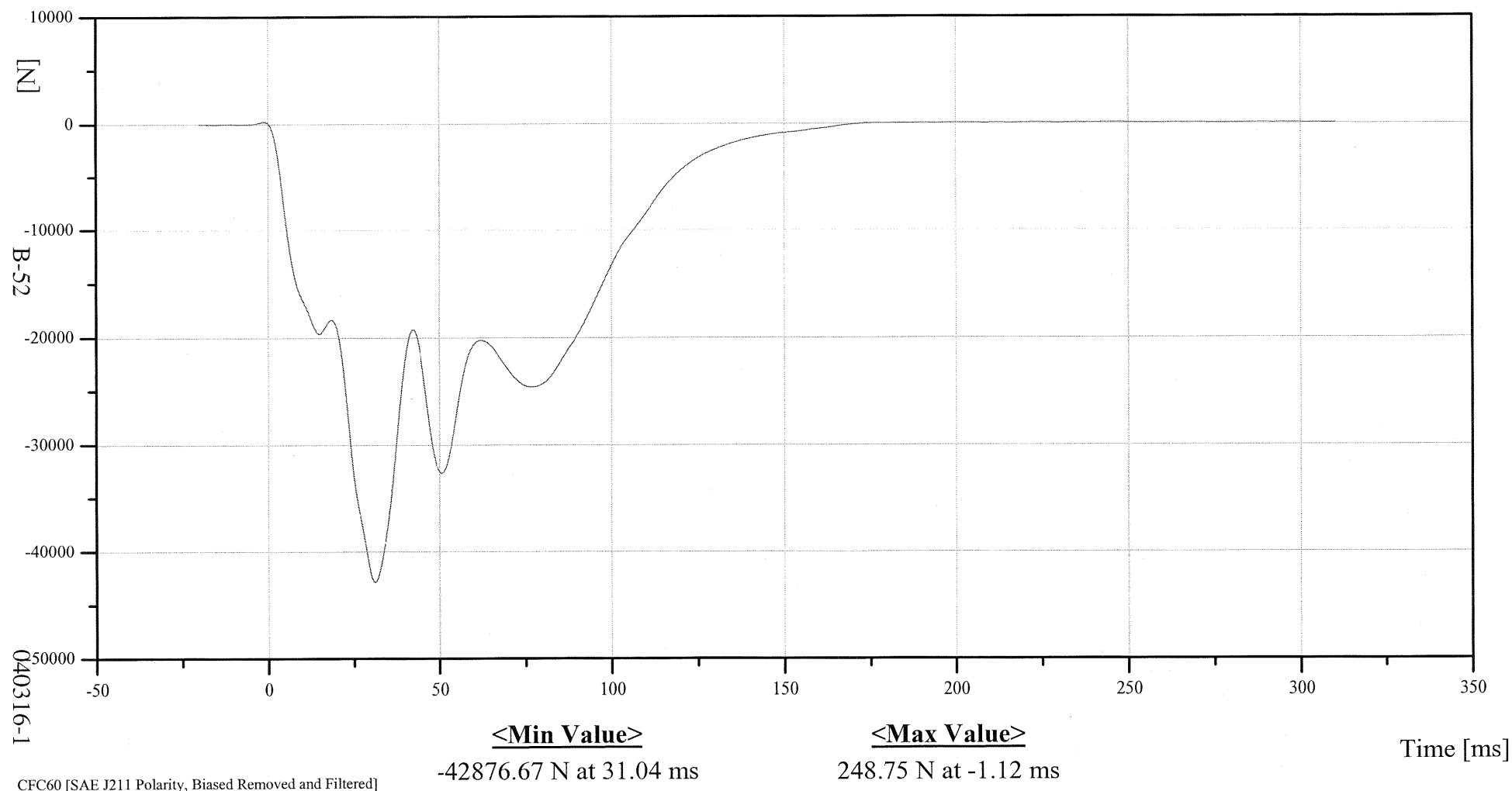
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0311





Transportation Research Center, Inc.

ROW 3 COLUMN 12

Date: 03/16/2004

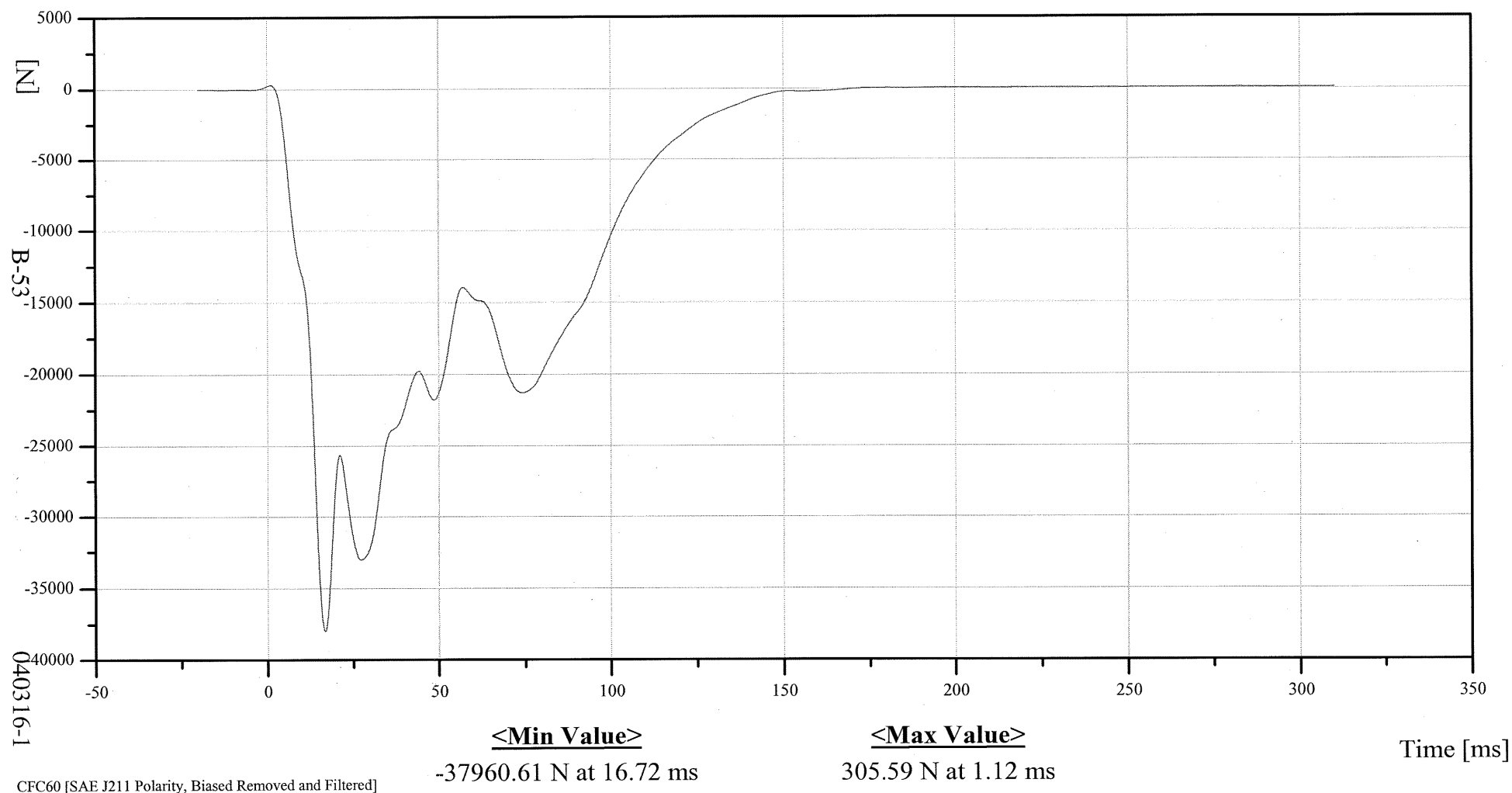
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0312





Transportation Research Center, Inc.

ROW 3 COLUMN 13

Date: 03/16/2004

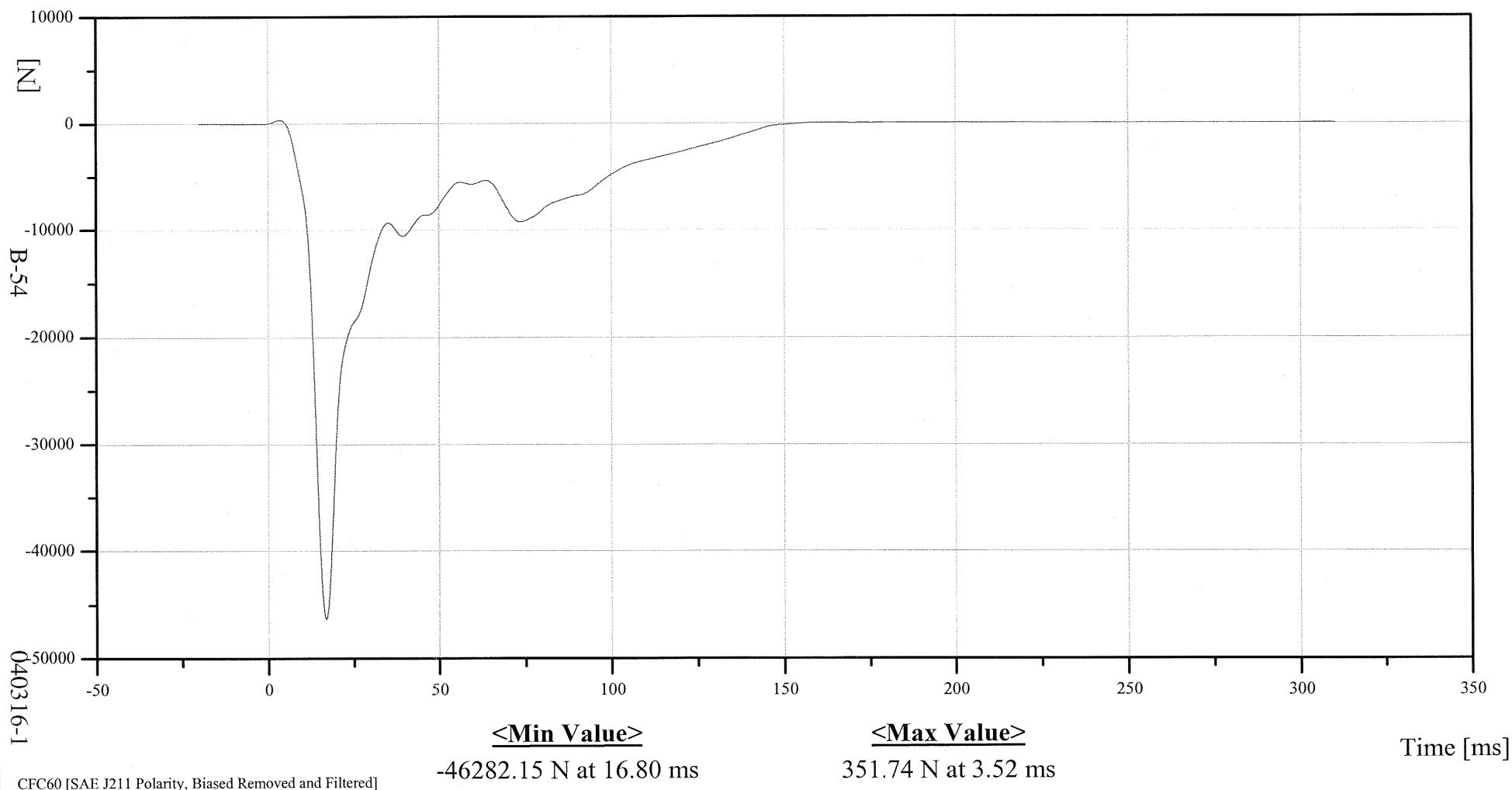
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0313





Transportation Research Center, Inc.

ROW 3 COLUMN 14

Date: 03/16/2004

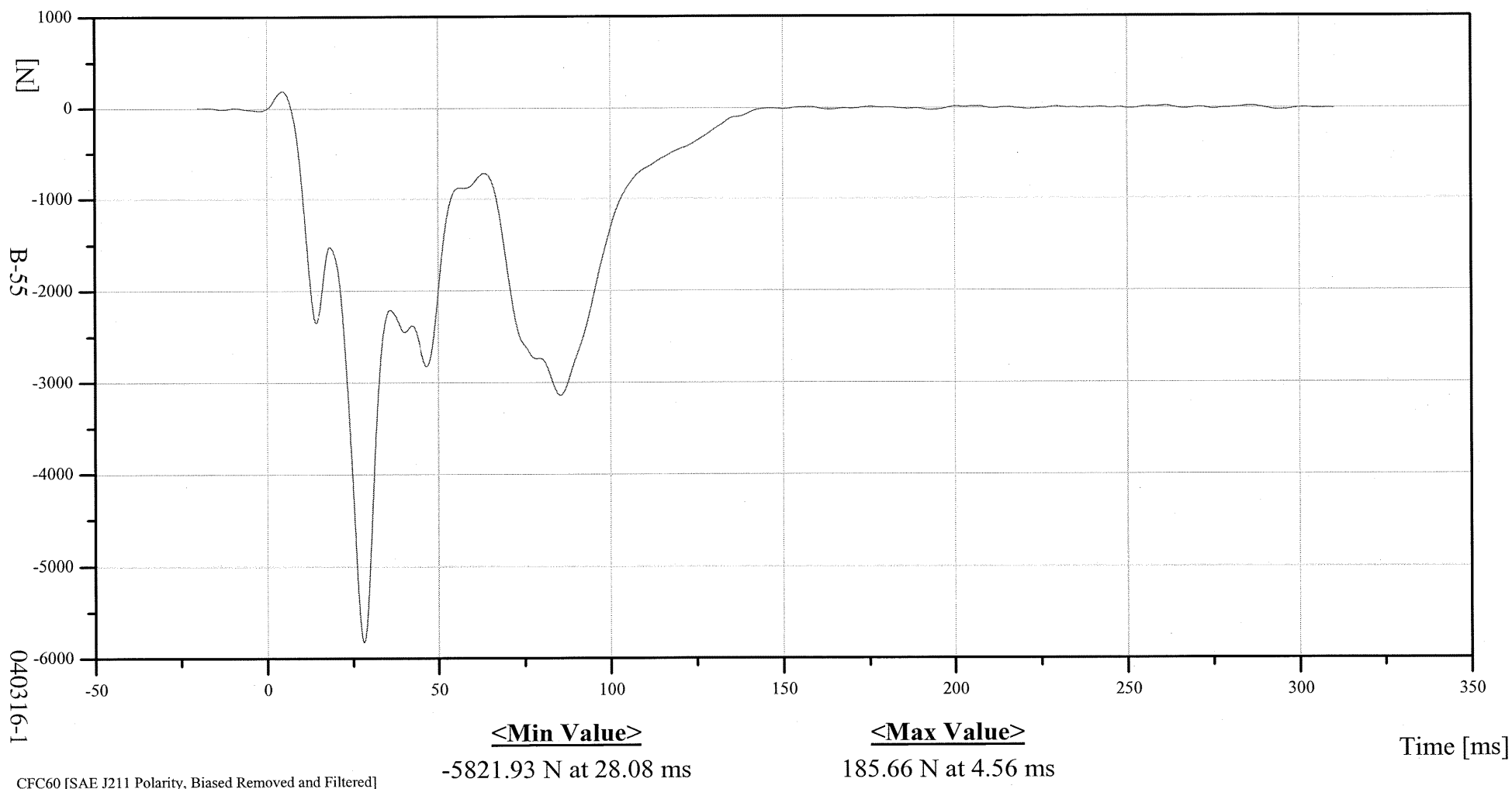
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0314





Transportation Research Center, Inc.

ROW 3 COLUMN 15

Date: 03/16/2004

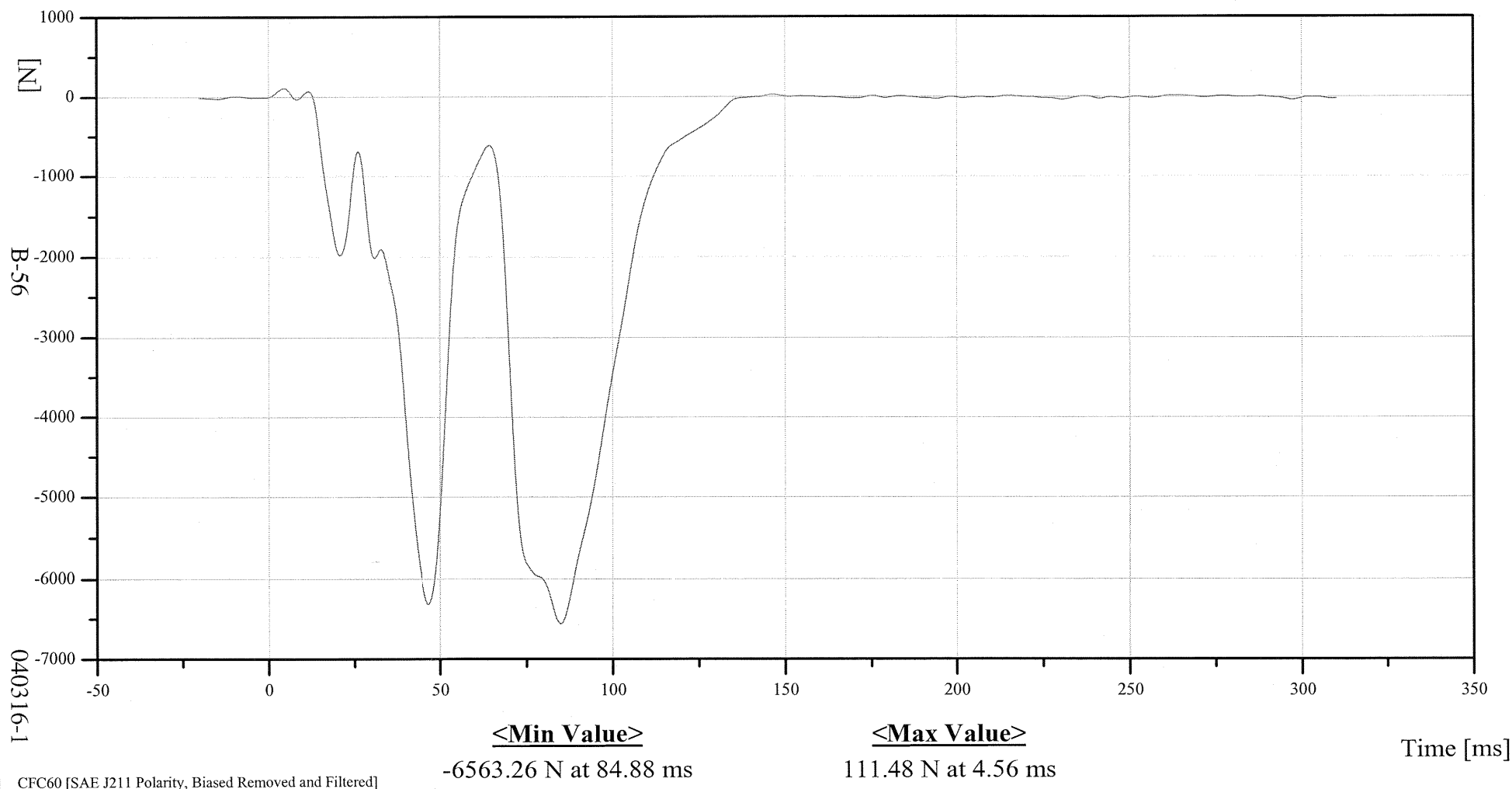
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0315





Transportation Research Center, Inc.

ROW 3 COLUMN 16

Date: 03/16/2004

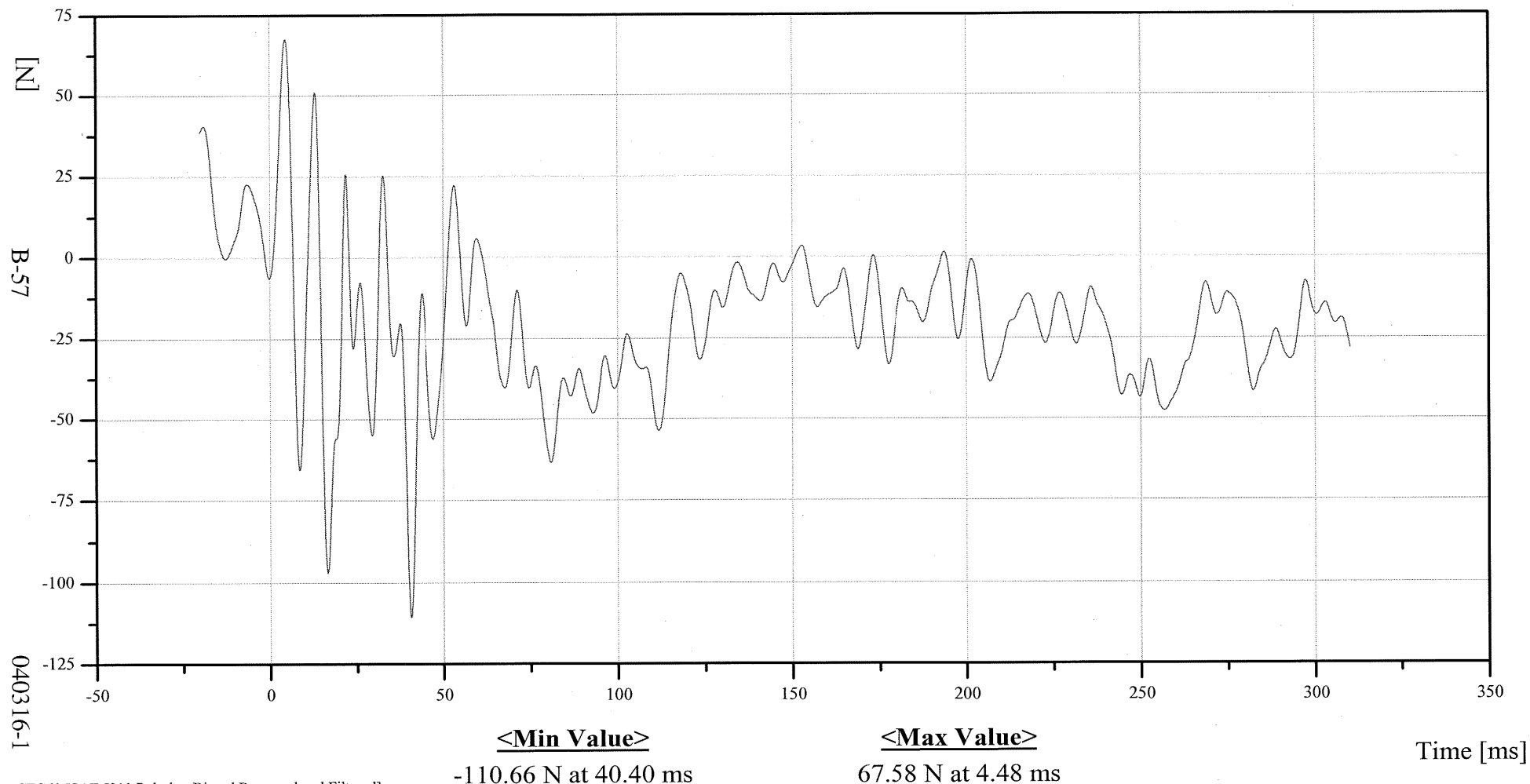
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0316



CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 4 COLUMN 1

Date: 03/16/2004

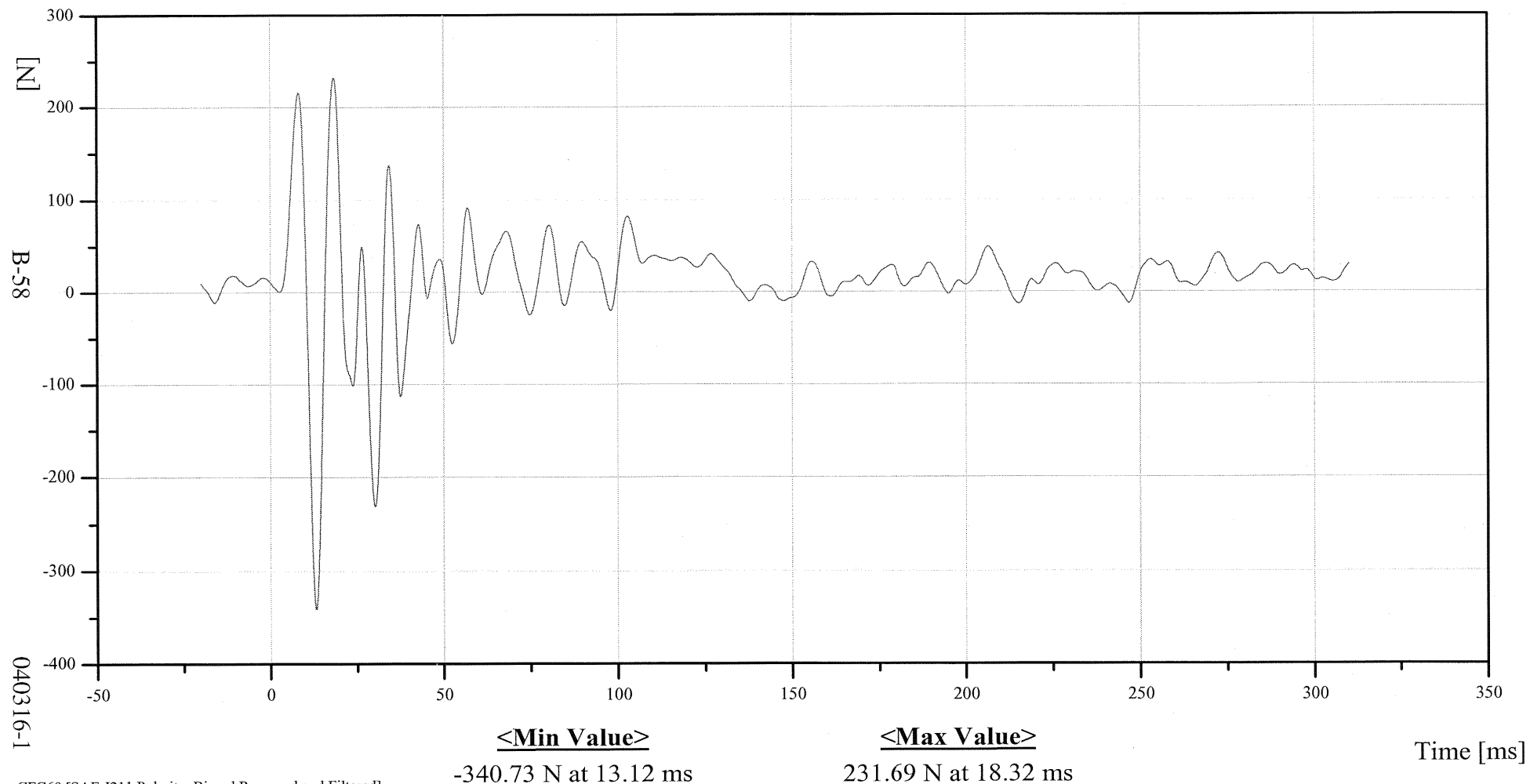
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0401



CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 4 COLUMN 2

Date: 03/16/2004

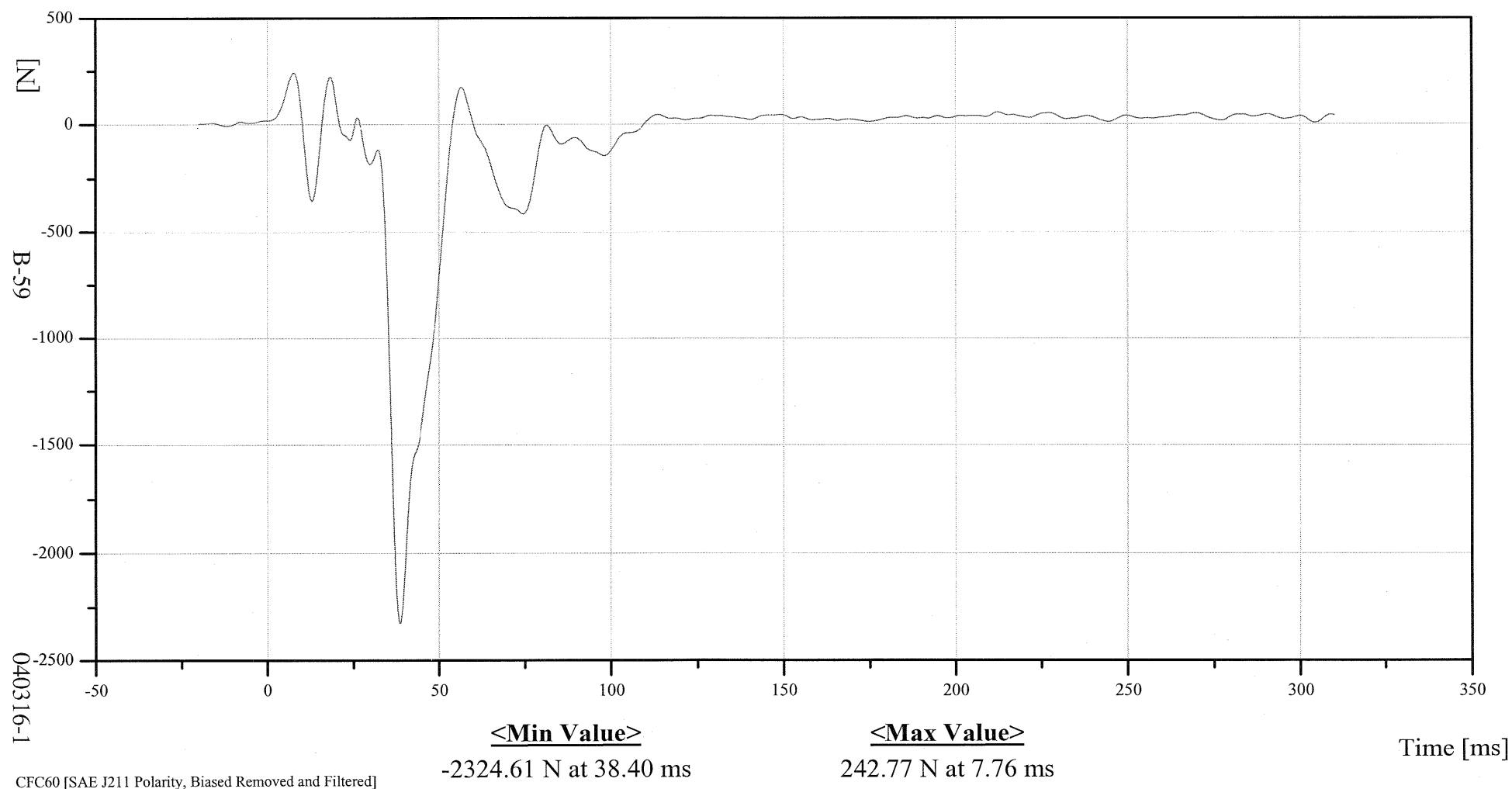
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0402





Transportation Research Center, Inc.

ROW 4 COLUMN 3

Date: 03/16/2004

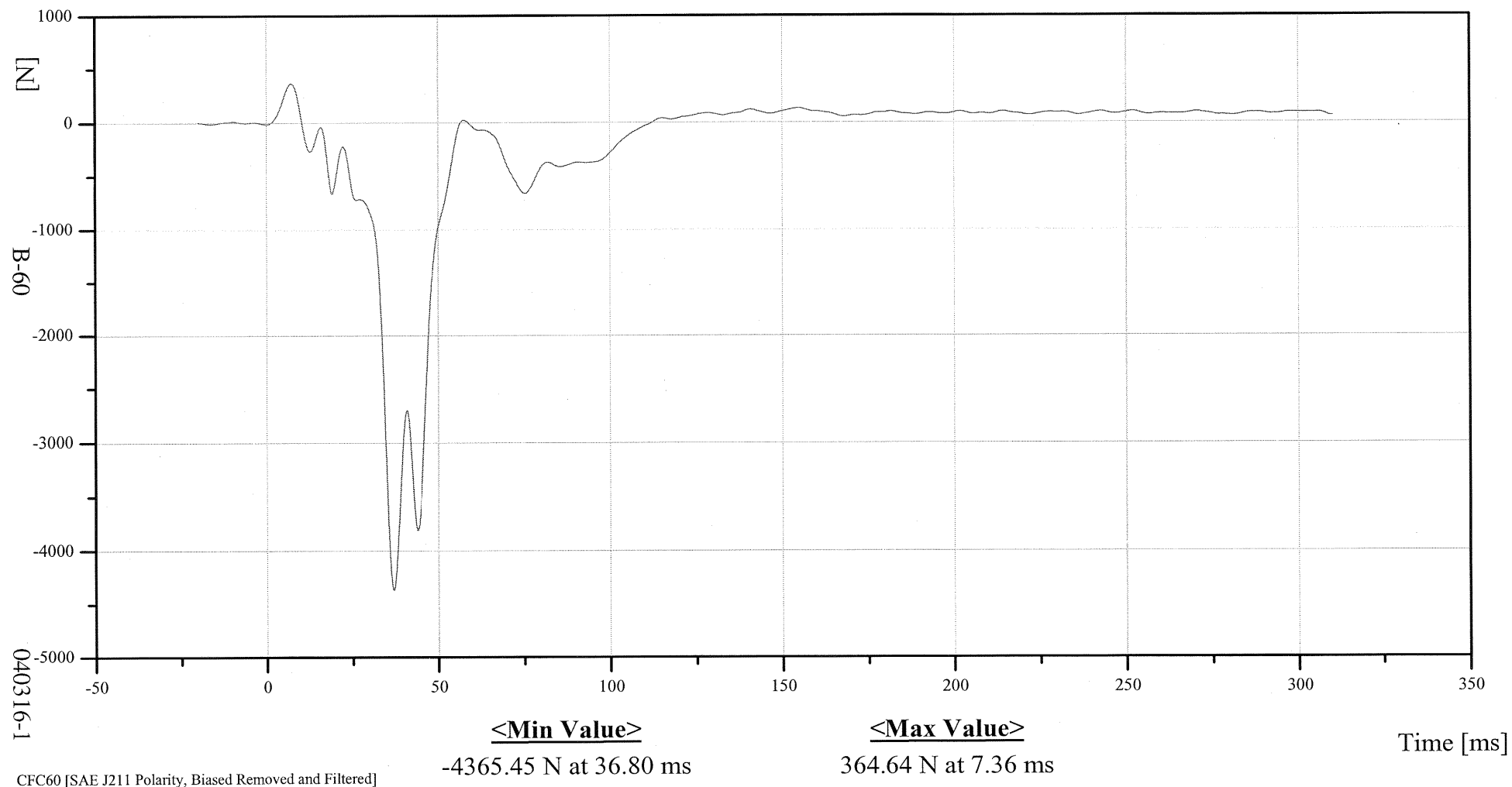
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0403





Transportation Research Center, Inc.

ROW 4 COLUMN 4

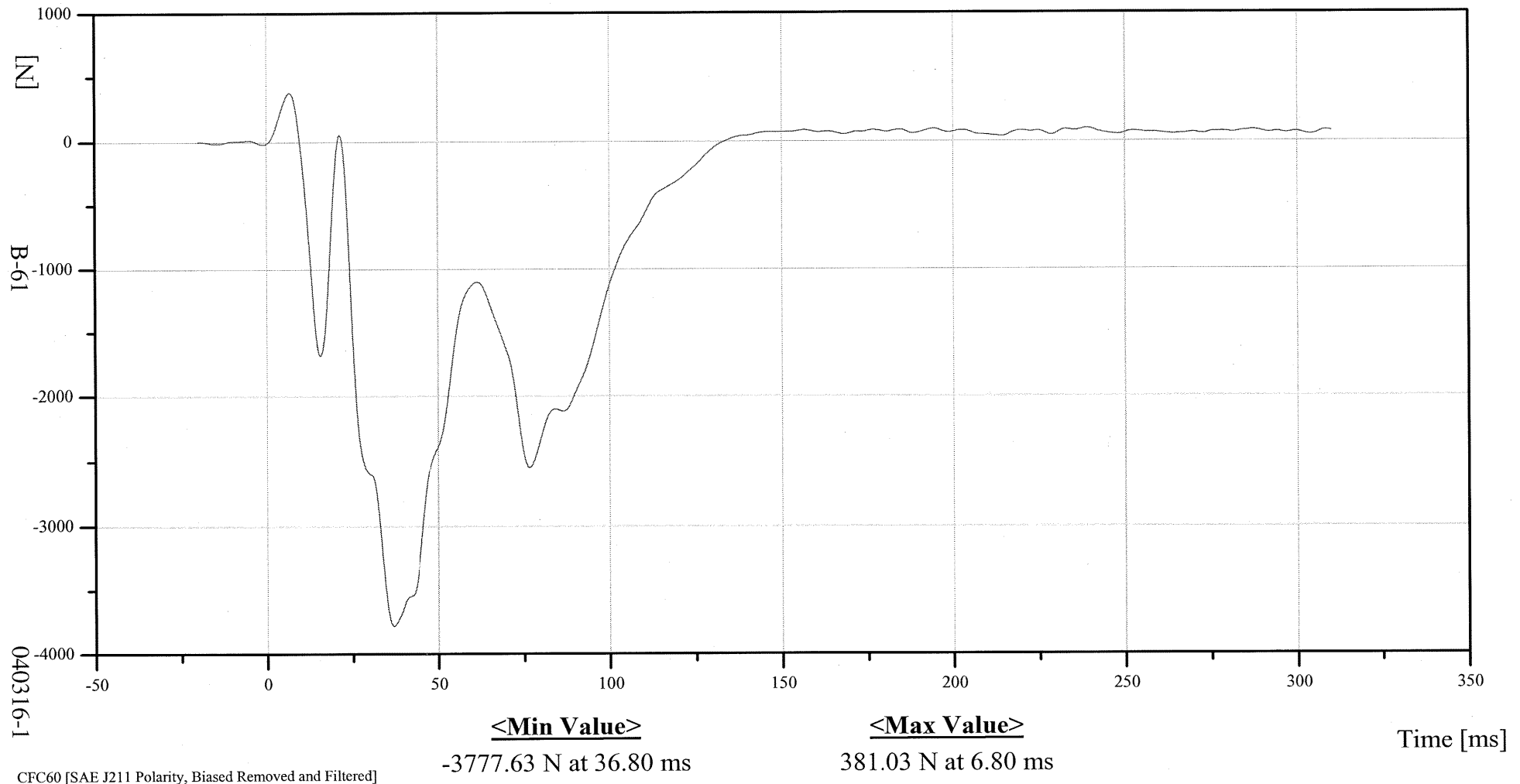
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0404





Transportation Research Center, Inc.

ROW 4 COLUMN 5

Date: 03/16/2004

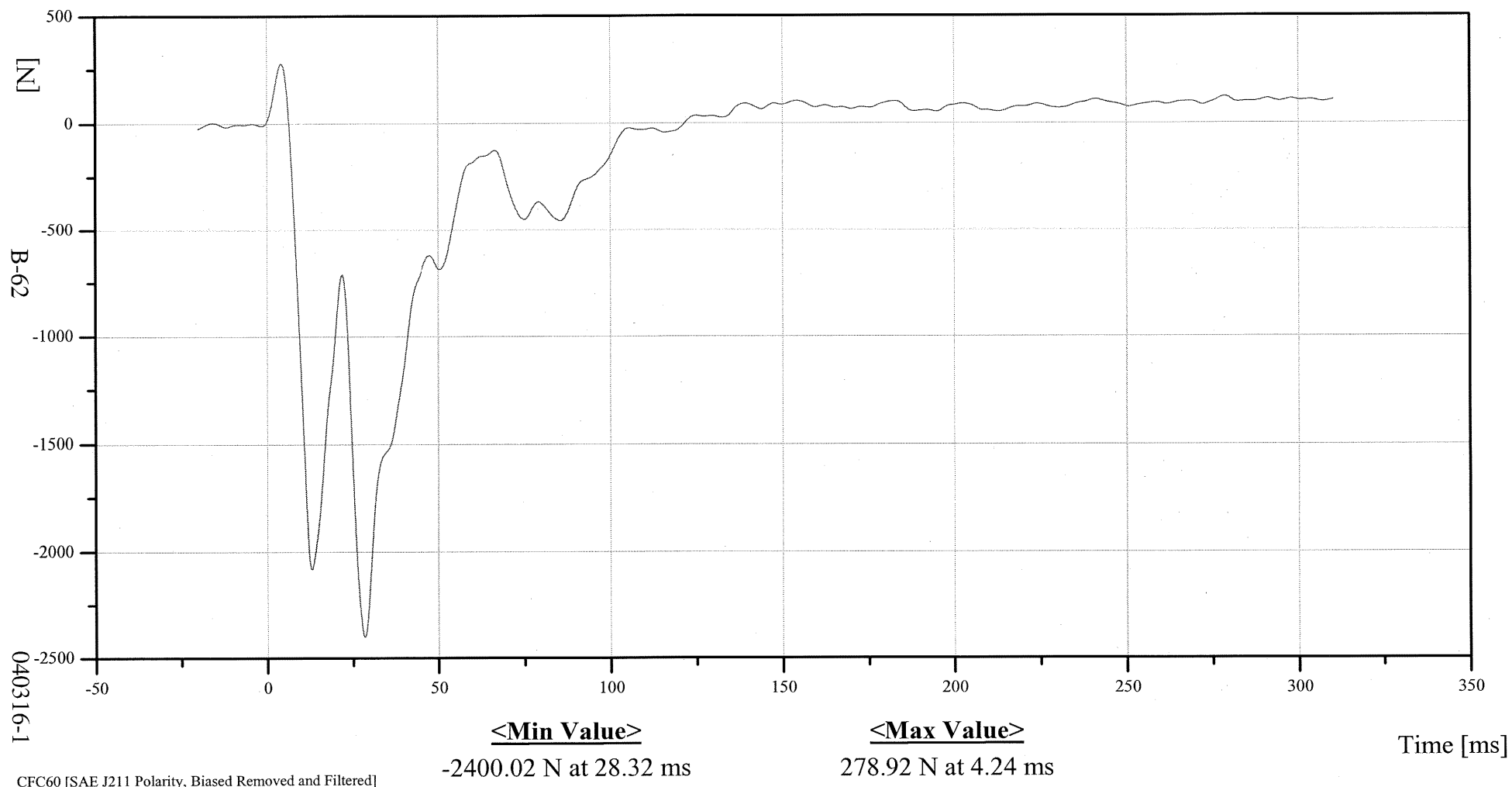
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0405





Transportation Research Center, Inc.

ROW 4 COLUMN 6

Date: 03/16/2004

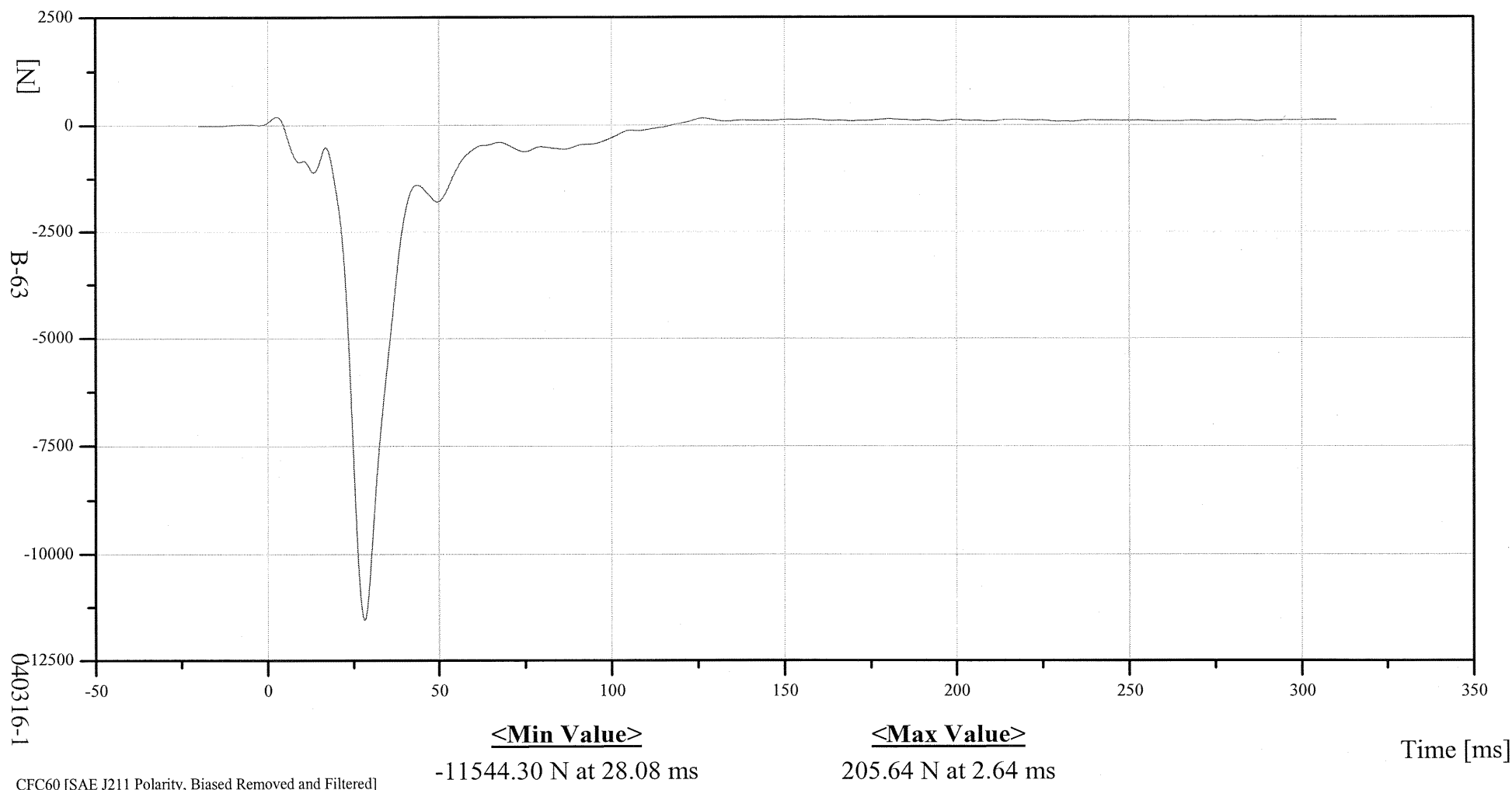
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0406





Transportation Research Center, Inc.

ROW 4 COLUMN 7

Date: 03/16/2004

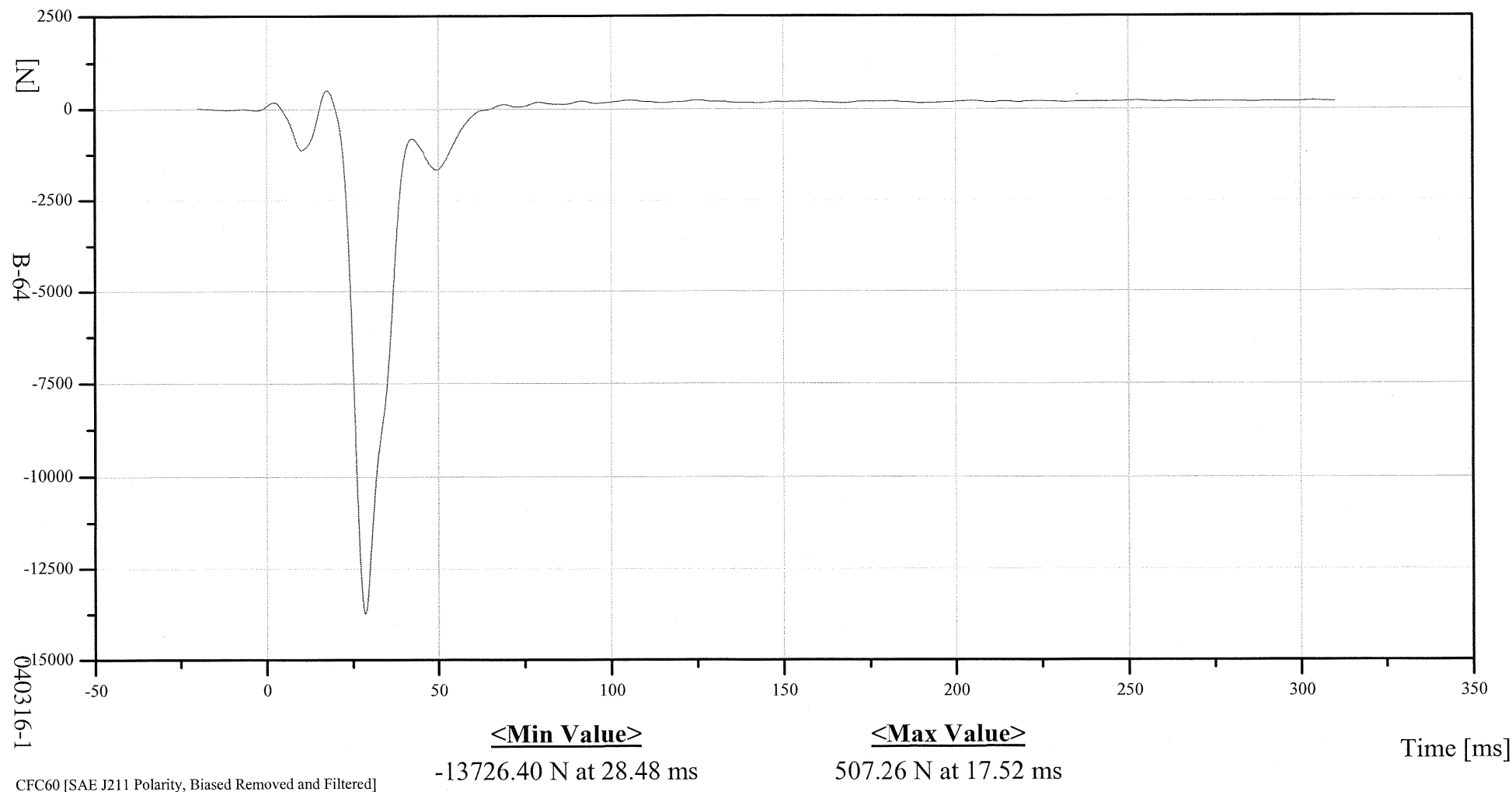
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0407





Transportation Research Center, Inc.

ROW 4 COLUMN 8

Date: 03/16/2004

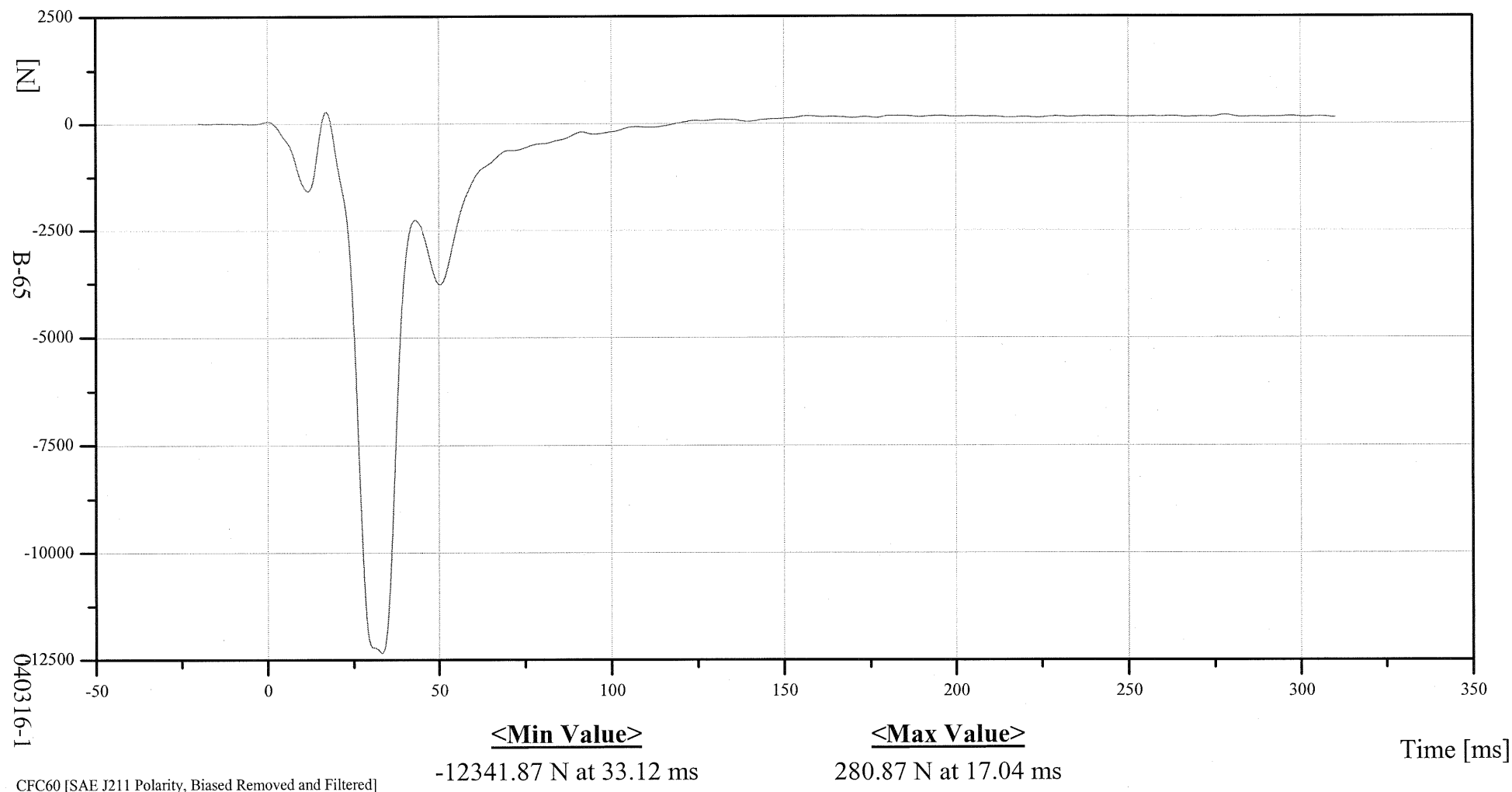
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0408





Transportation Research Center, Inc.

ROW 4 COLUMN 9

Date: 03/16/2004

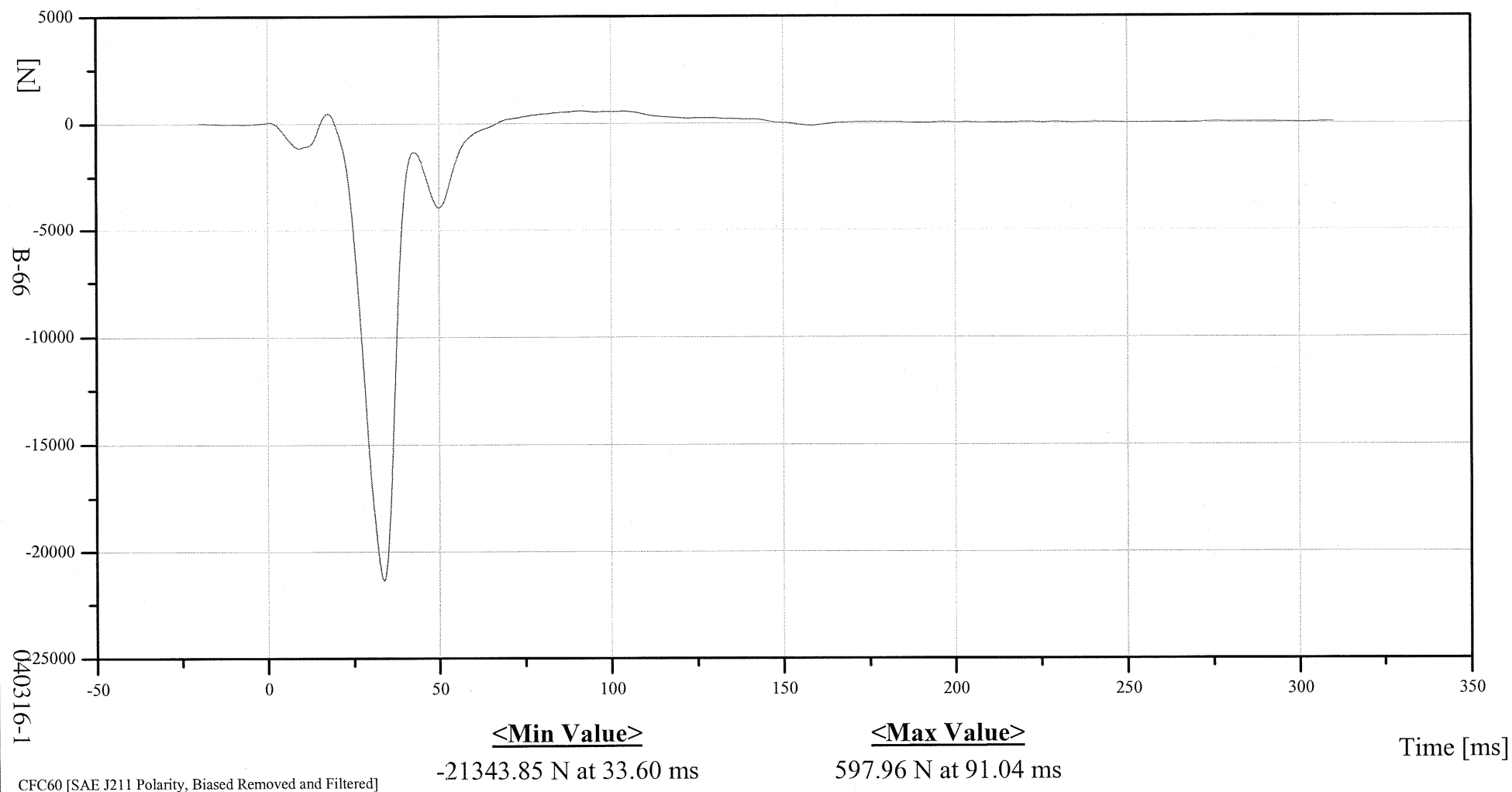
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0409





Transportation Research Center, Inc.

ROW 4 COLUMN 10

Date: 03/16/2004

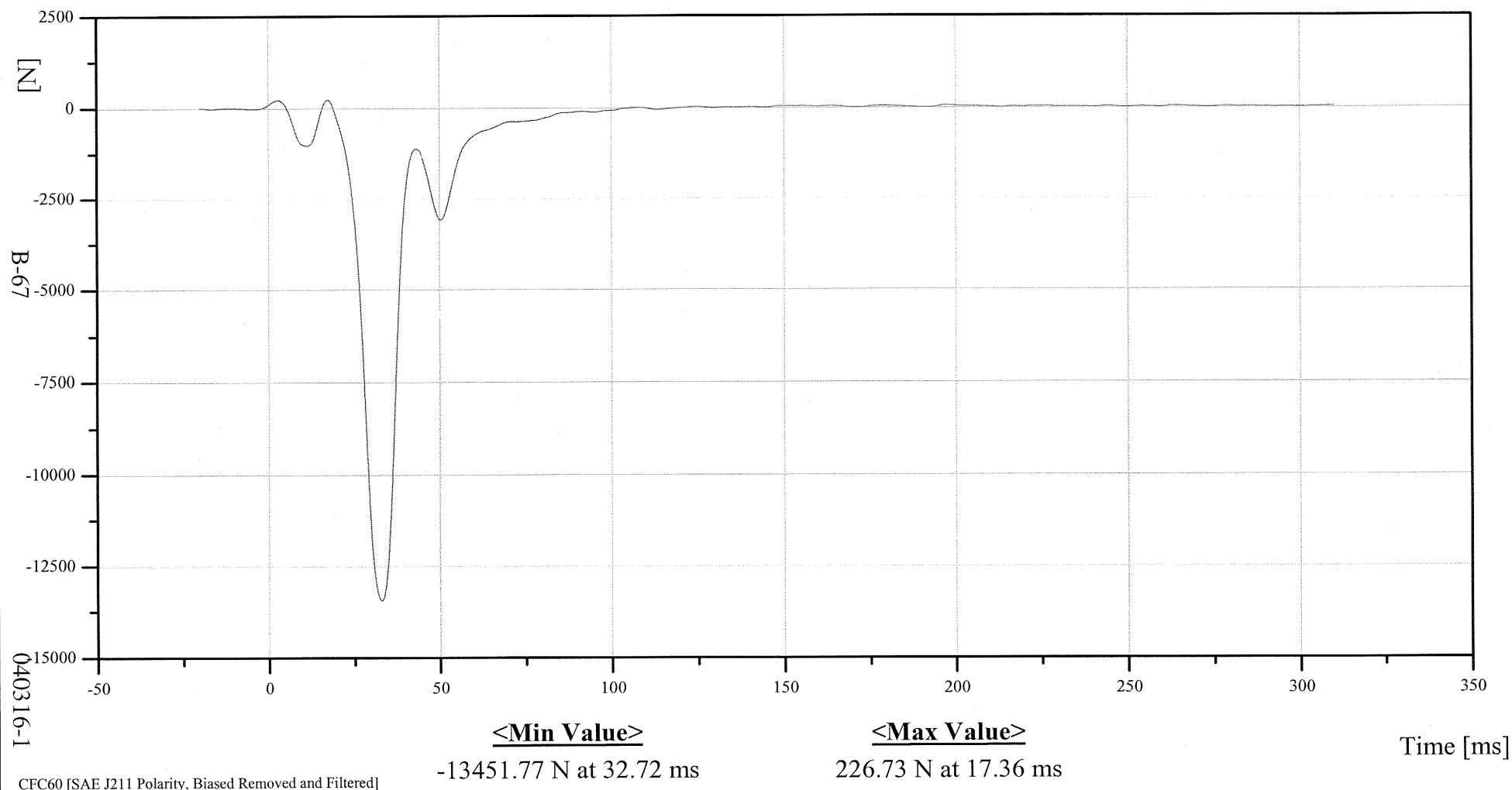
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0410





Transportation Research Center, Inc.

ROW 4 COLUMN 11

Date: 03/16/2004

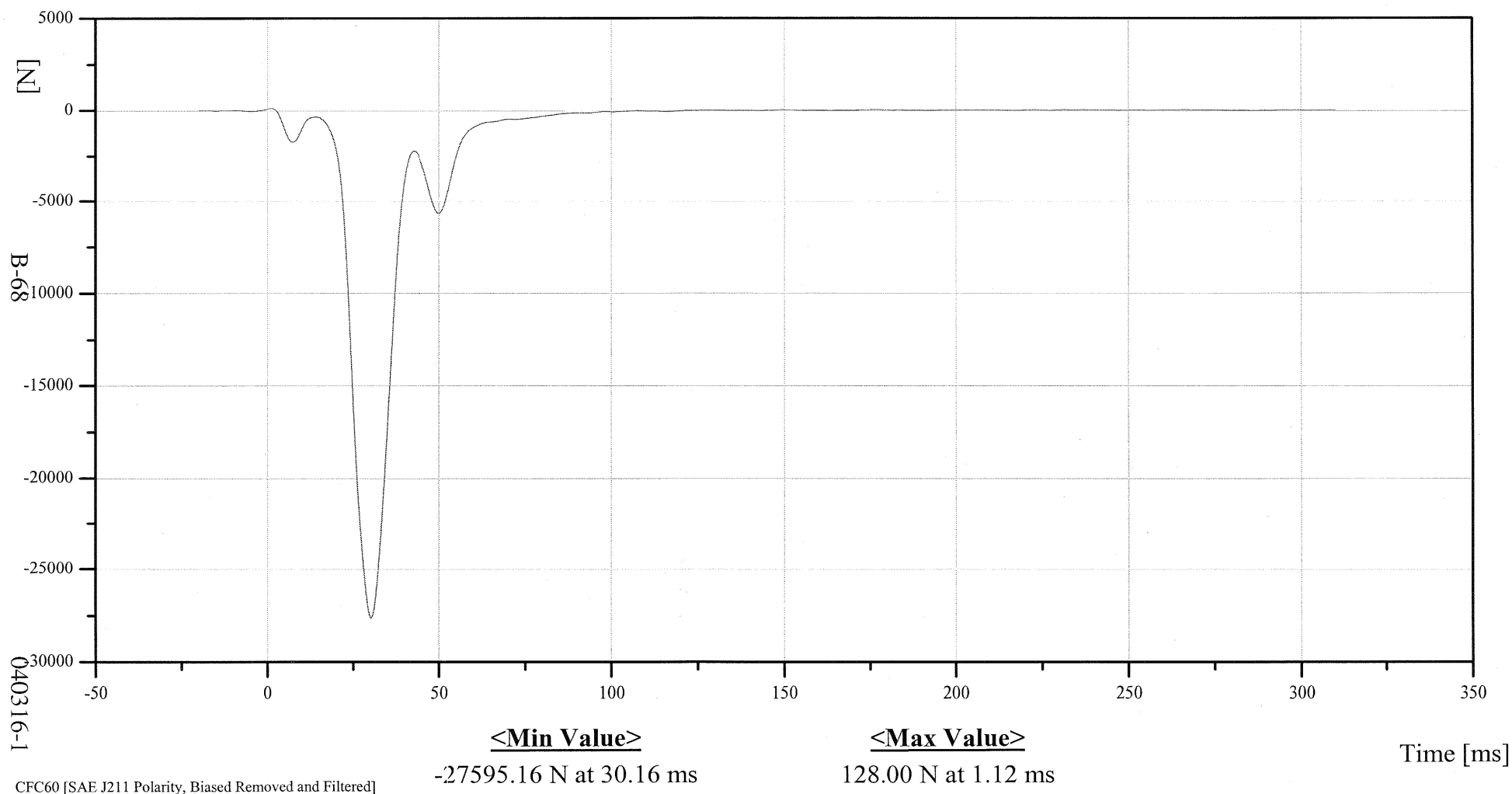
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0411





Transportation Research Center, Inc.

ROW 4 COLUMN 12

Date: 03/16/2004

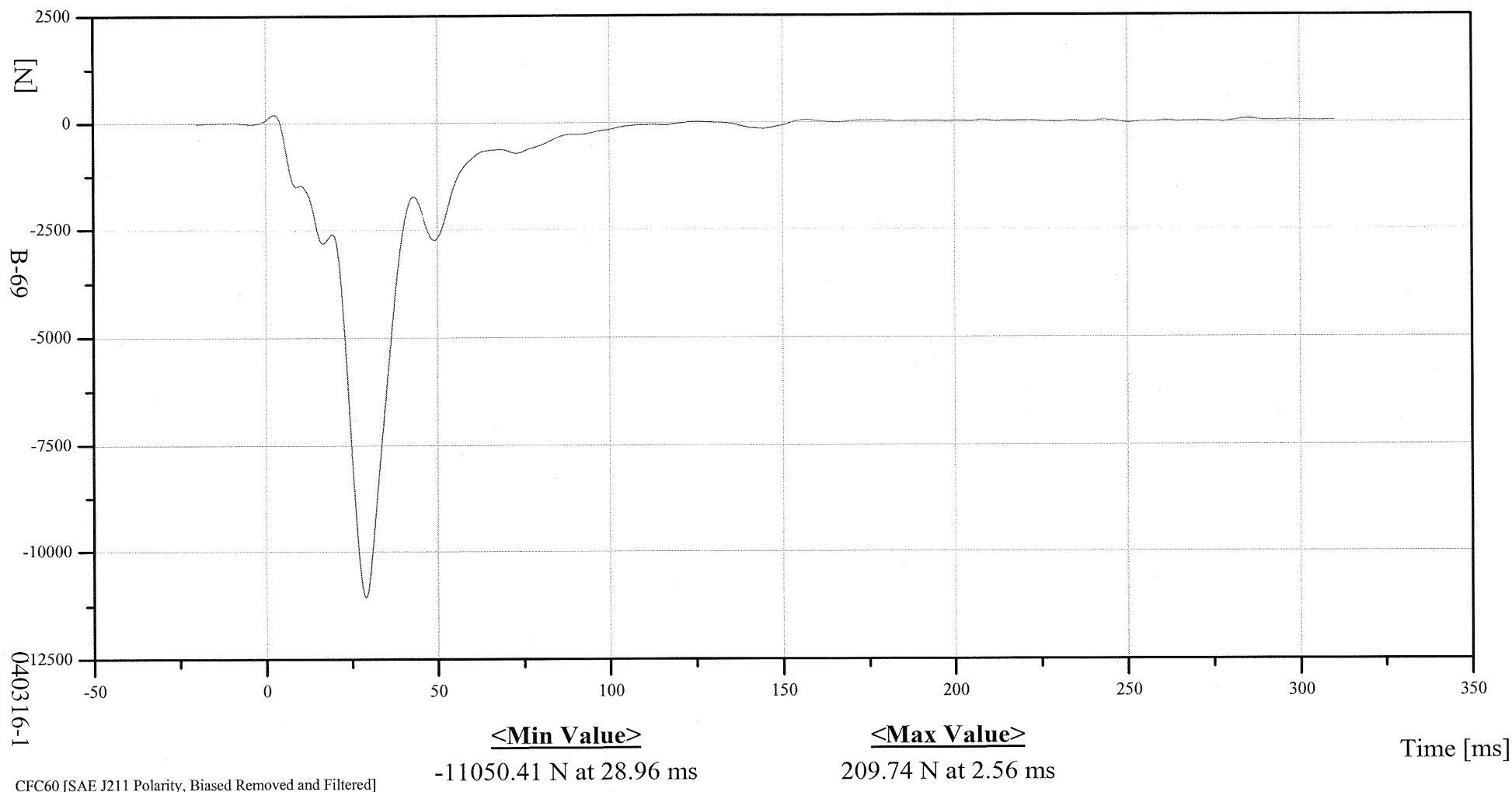
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0412





Transportation Research Center, Inc.

ROW 4 COLUMN 13

Date: 03/16/2004

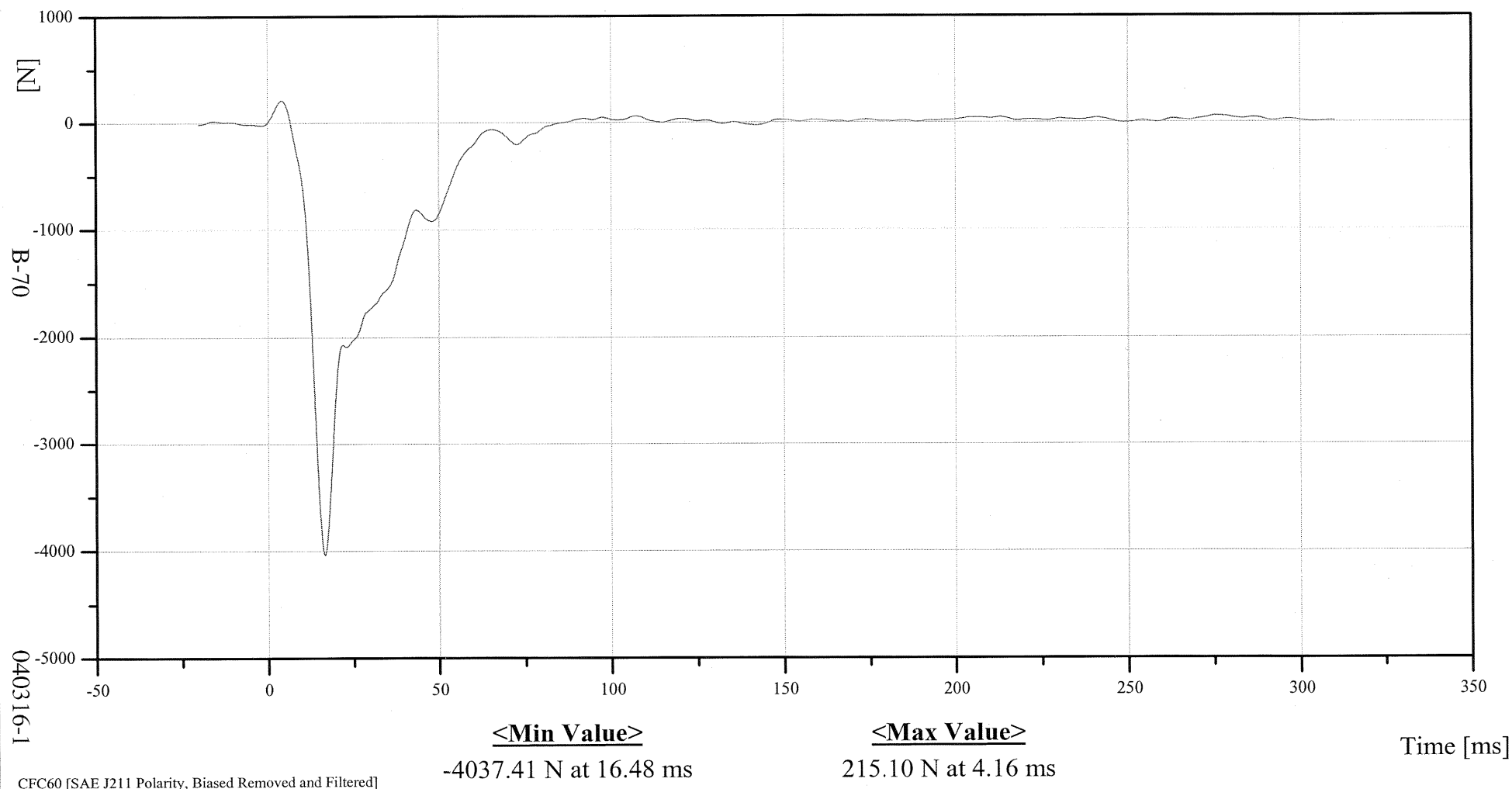
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0413





Transportation Research Center, Inc.

ROW 4 COLUMN 14

Date: 03/16/2004

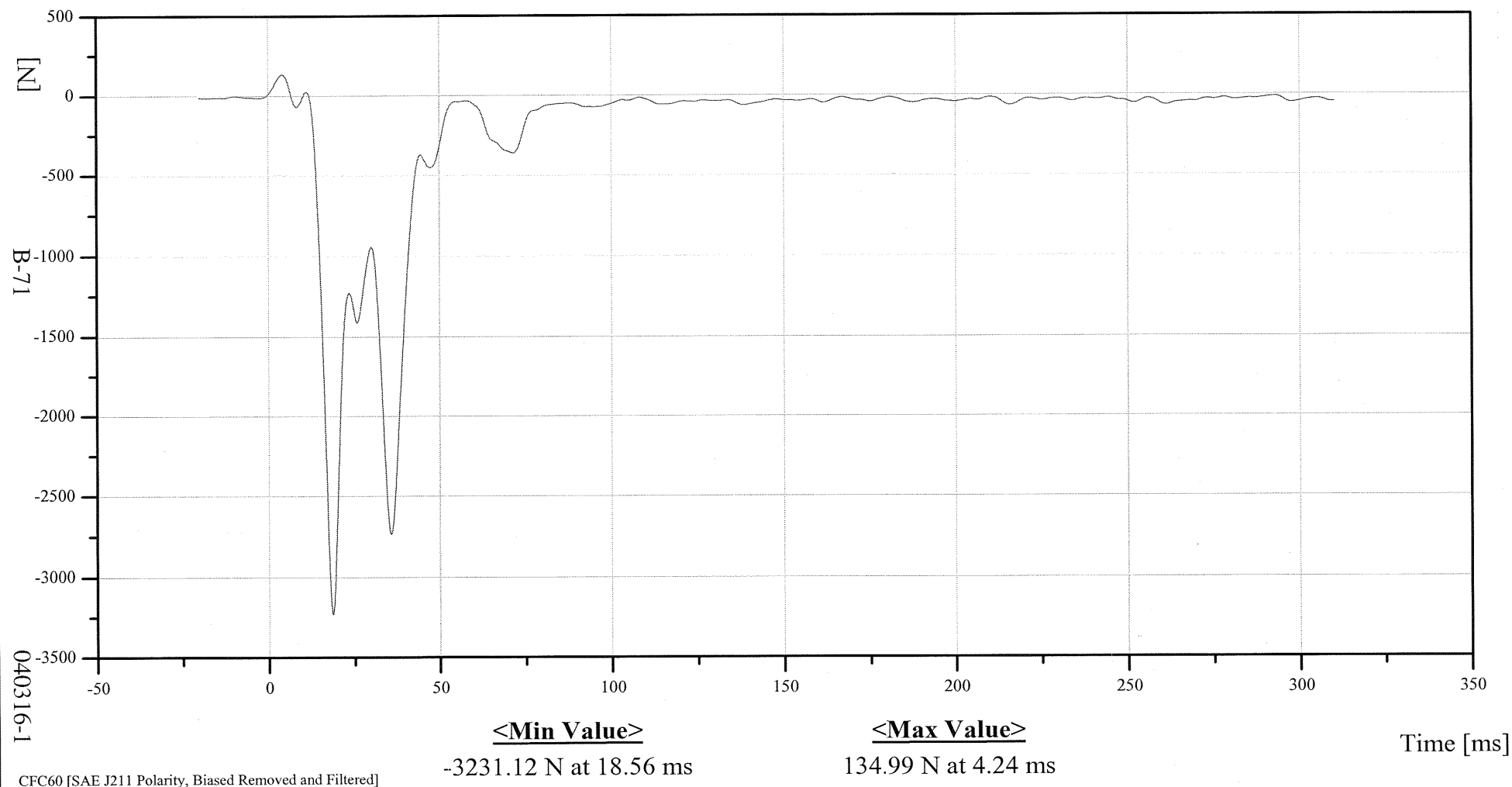
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0414





Transportation Research Center, Inc.

ROW 4 COLUMN 15

Date: 03/16/2004

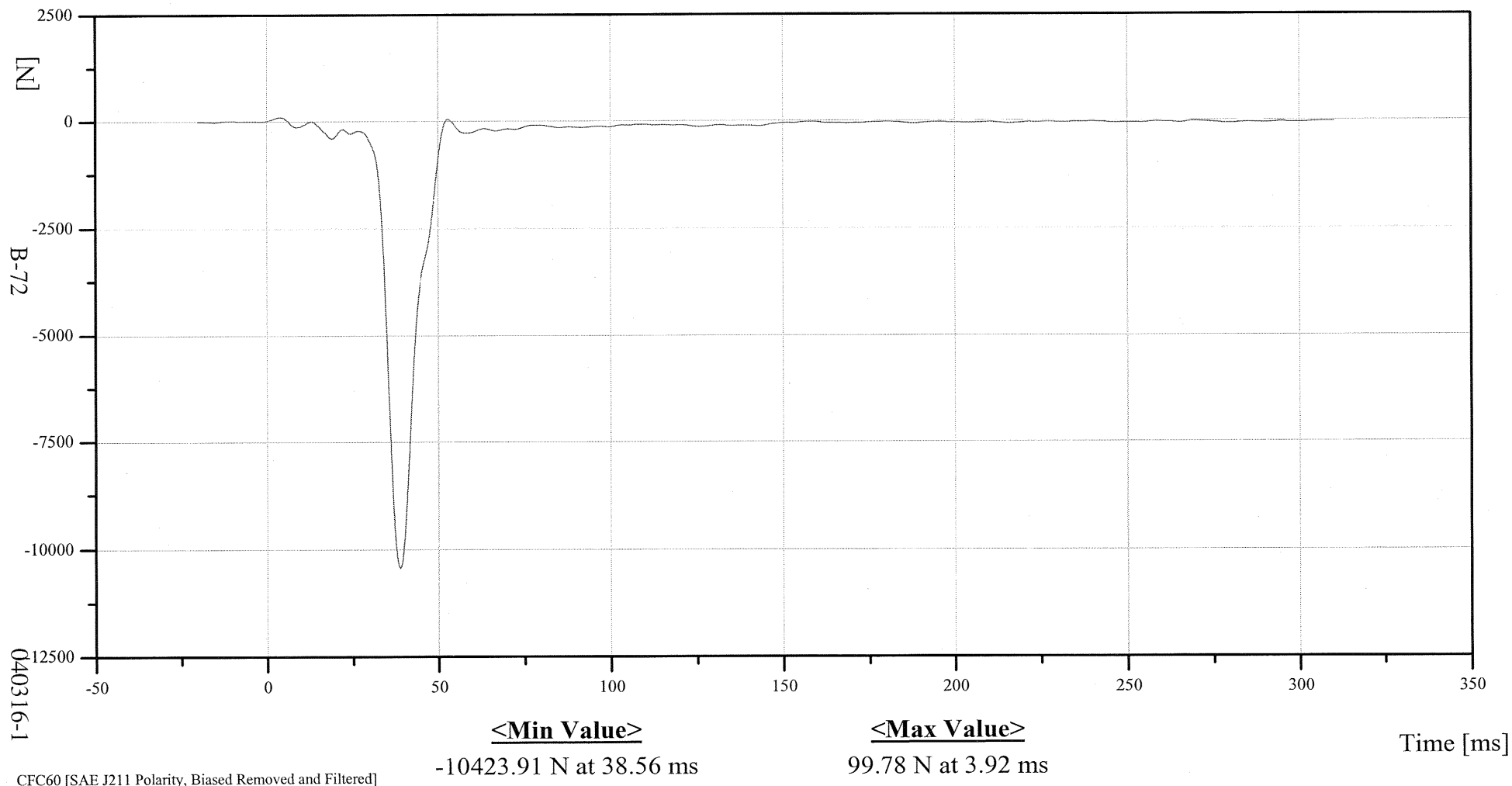
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0415





Transportation Research Center, Inc.

ROW 4 COLUMN 16

Date: 03/16/2004

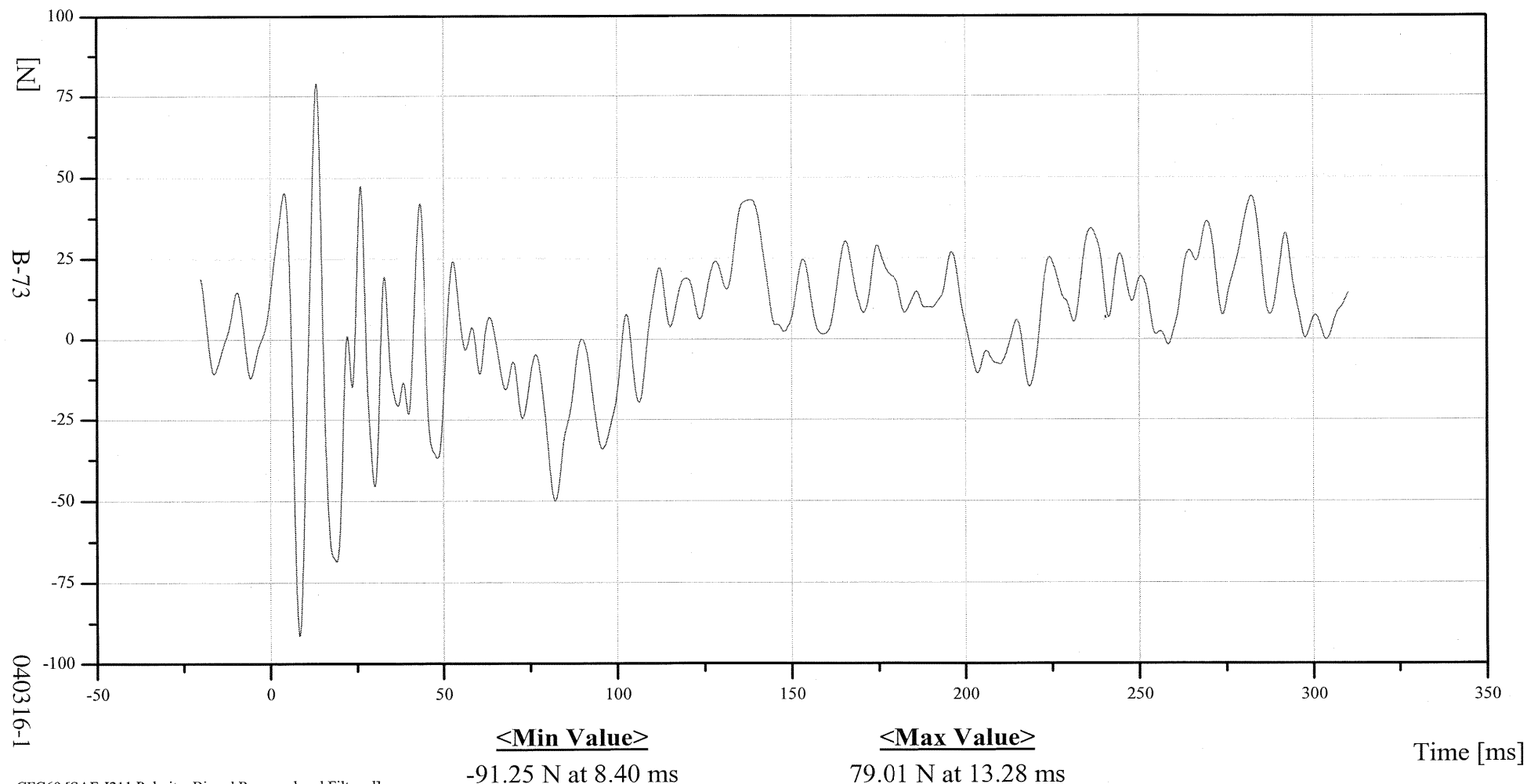
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0416



CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 5 COLUMN 1

Date: 03/16/2004

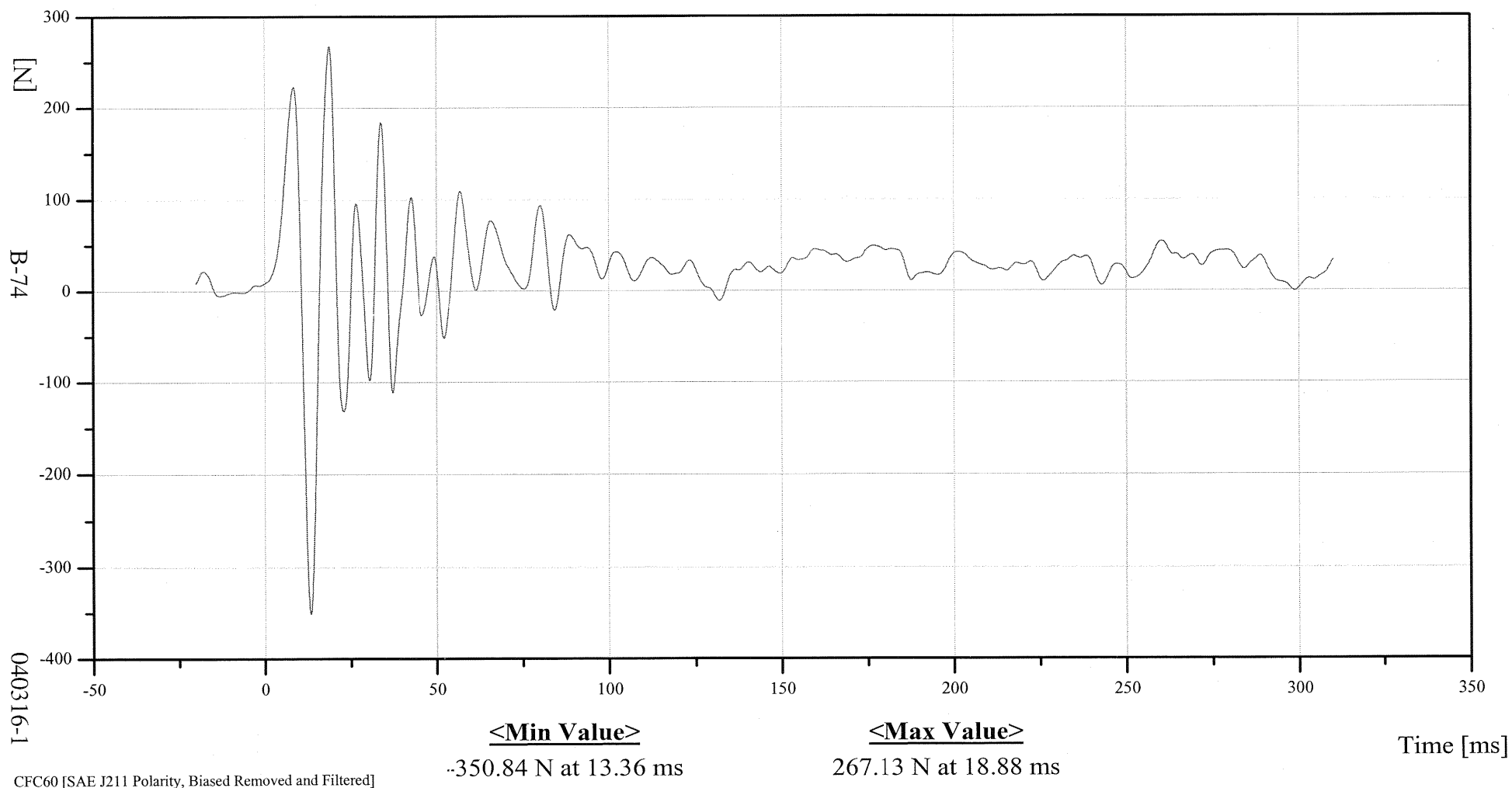
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0501





Transportation Research Center, Inc.

ROW 5 COLUMN 2

Date: 03/16/2004

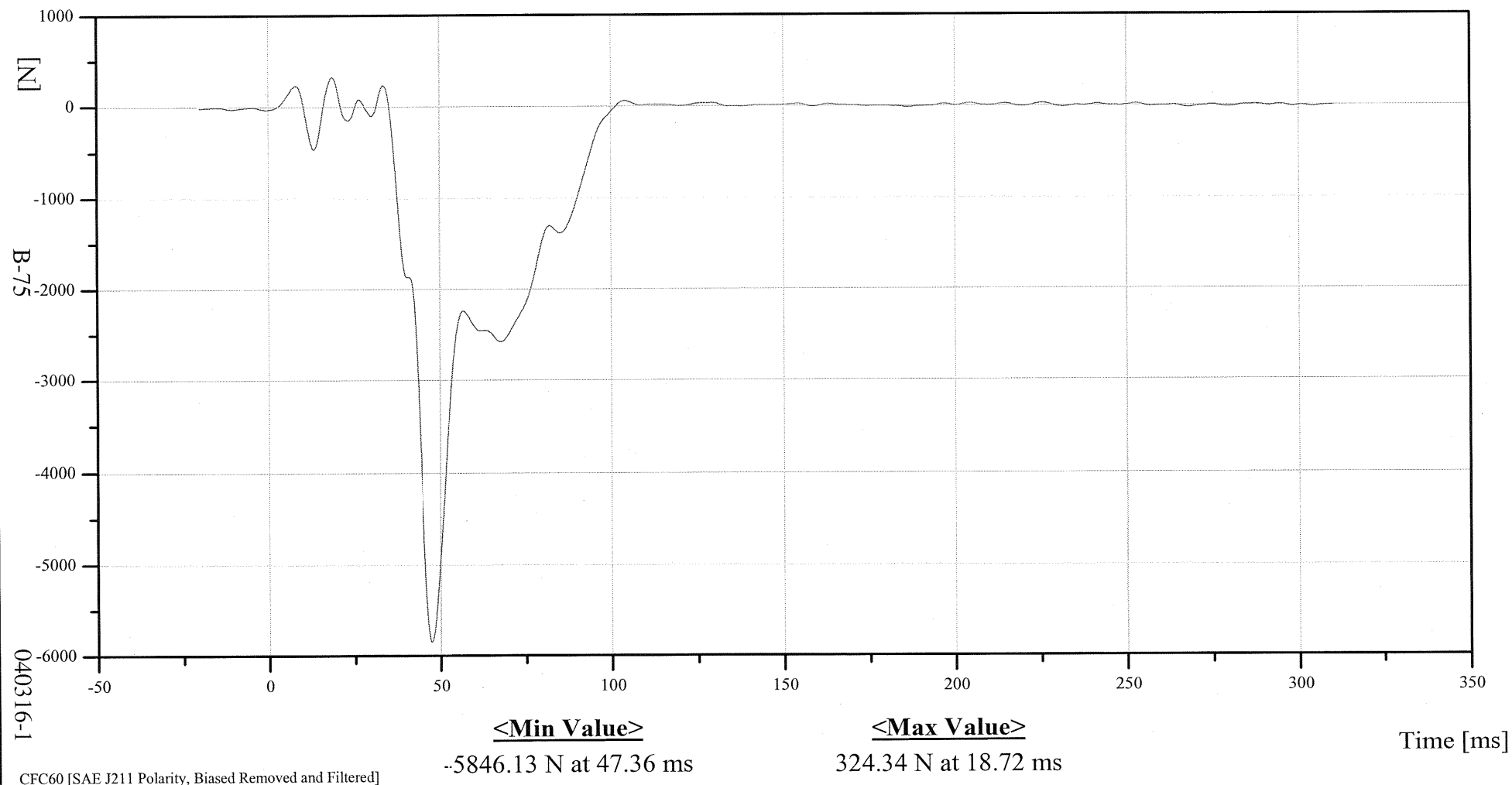
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0502





Transportation Research Center, Inc.

ROW 5 COLUMN 3

Date: 03/16/2004

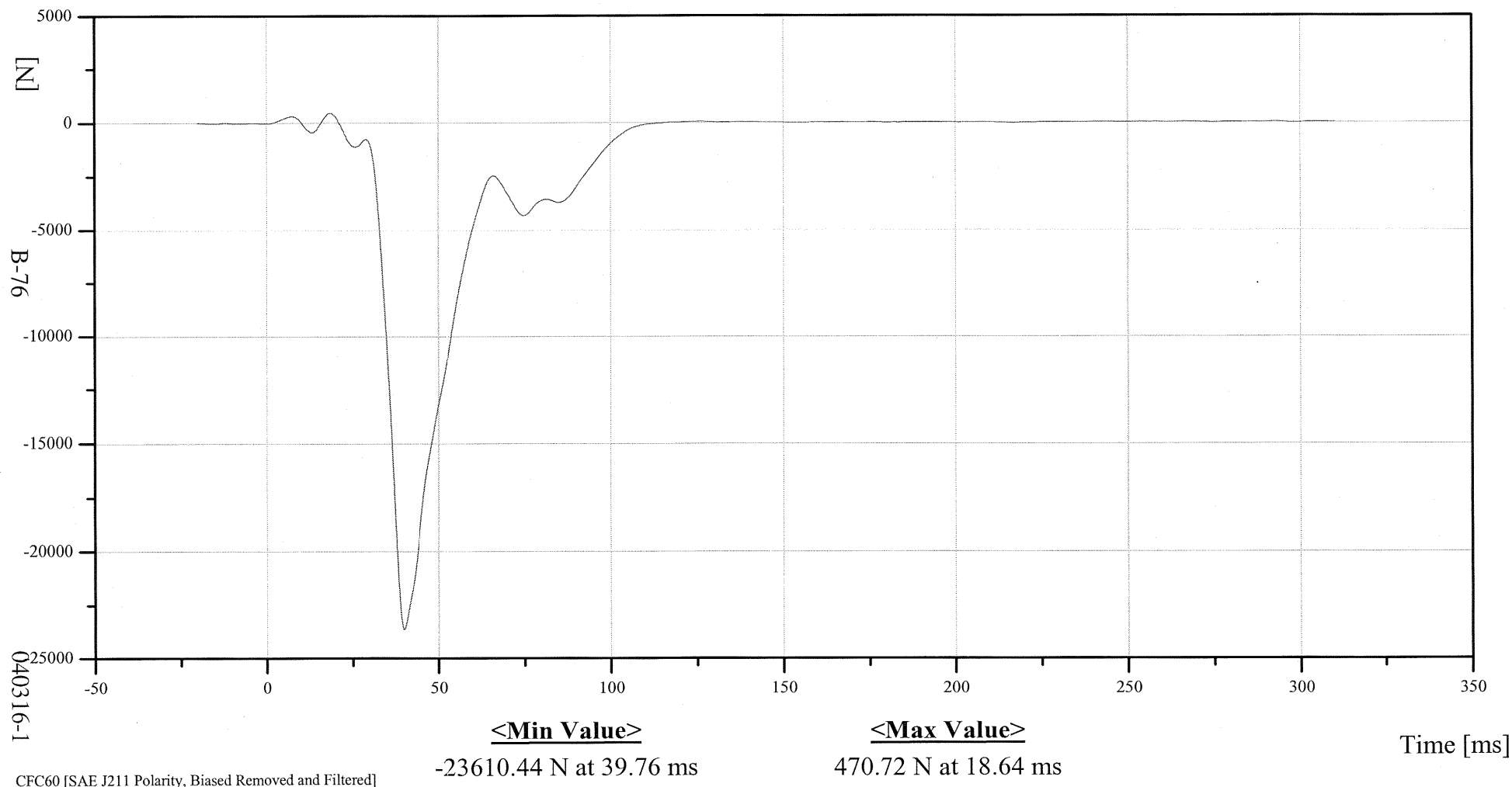
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0503





Transportation Research Center, Inc.

ROW 5 COLUMN 4

Date: 03/16/2004

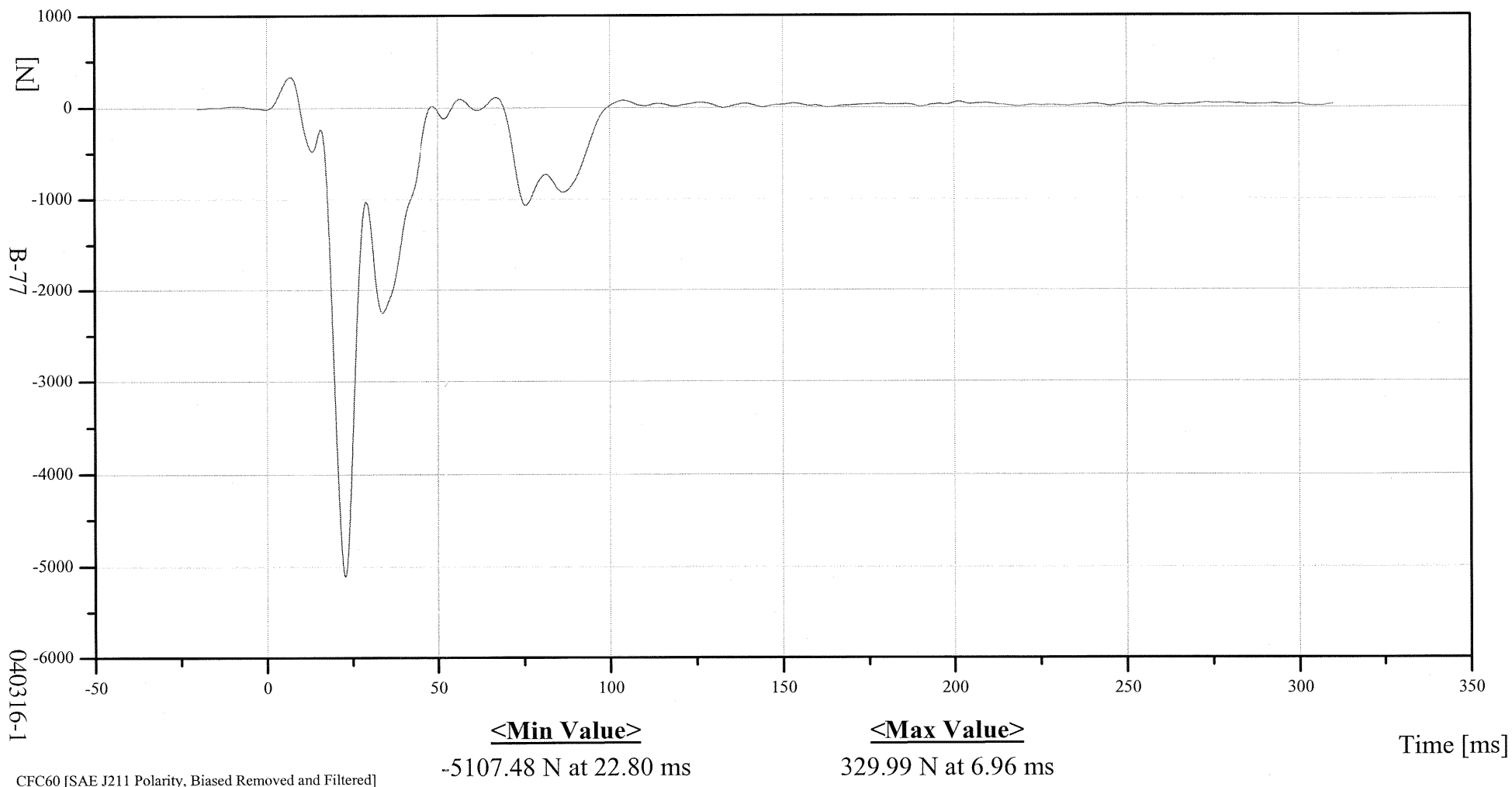
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0504





Transportation Research Center, Inc.

ROW 5 COLUMN 5

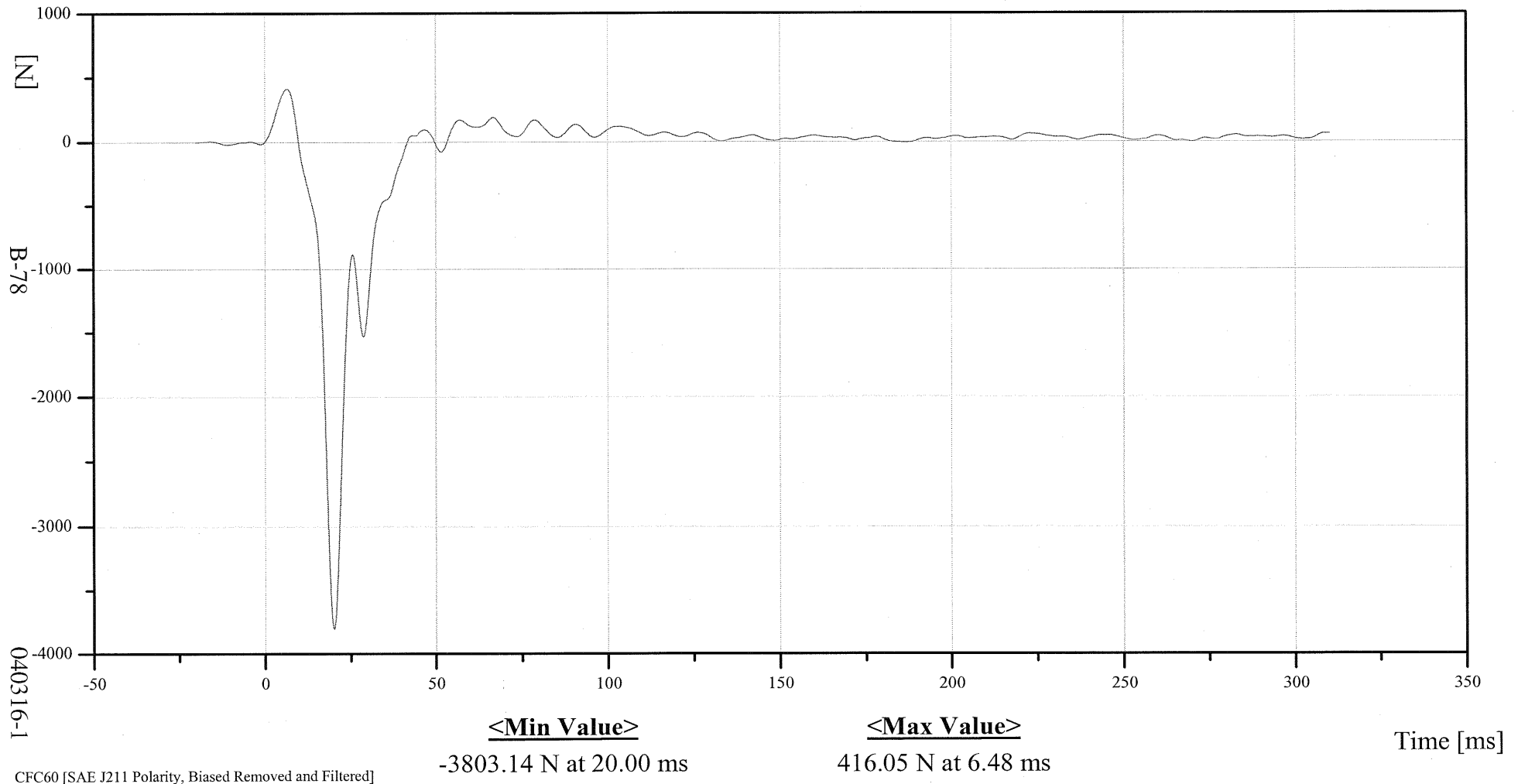
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0505





Transportation Research Center, Inc.

ROW 5 COLUMN 6

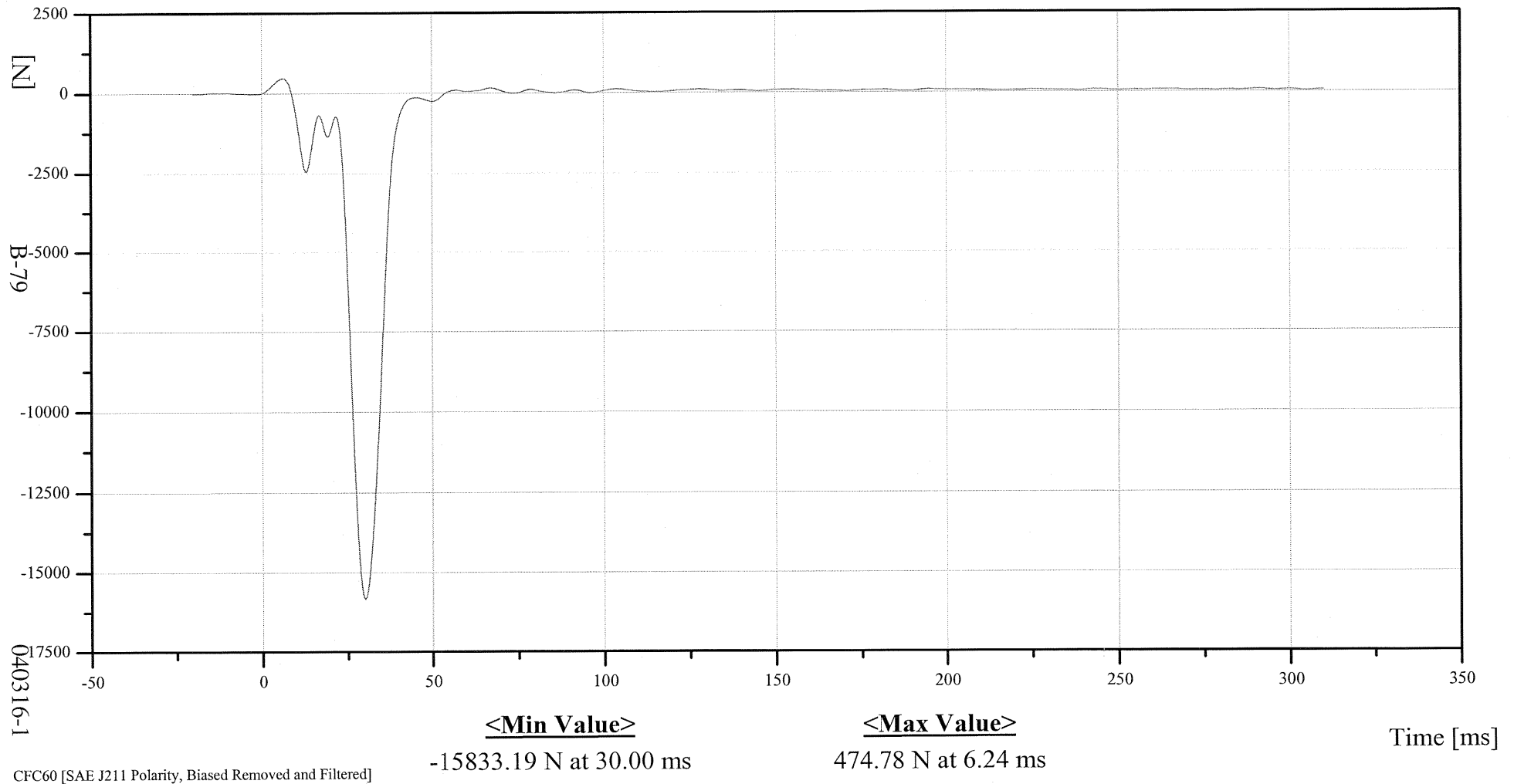
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0506





Transportation Research Center, Inc.

ROW 5 COLUMN 7

Date: 03/16/2004

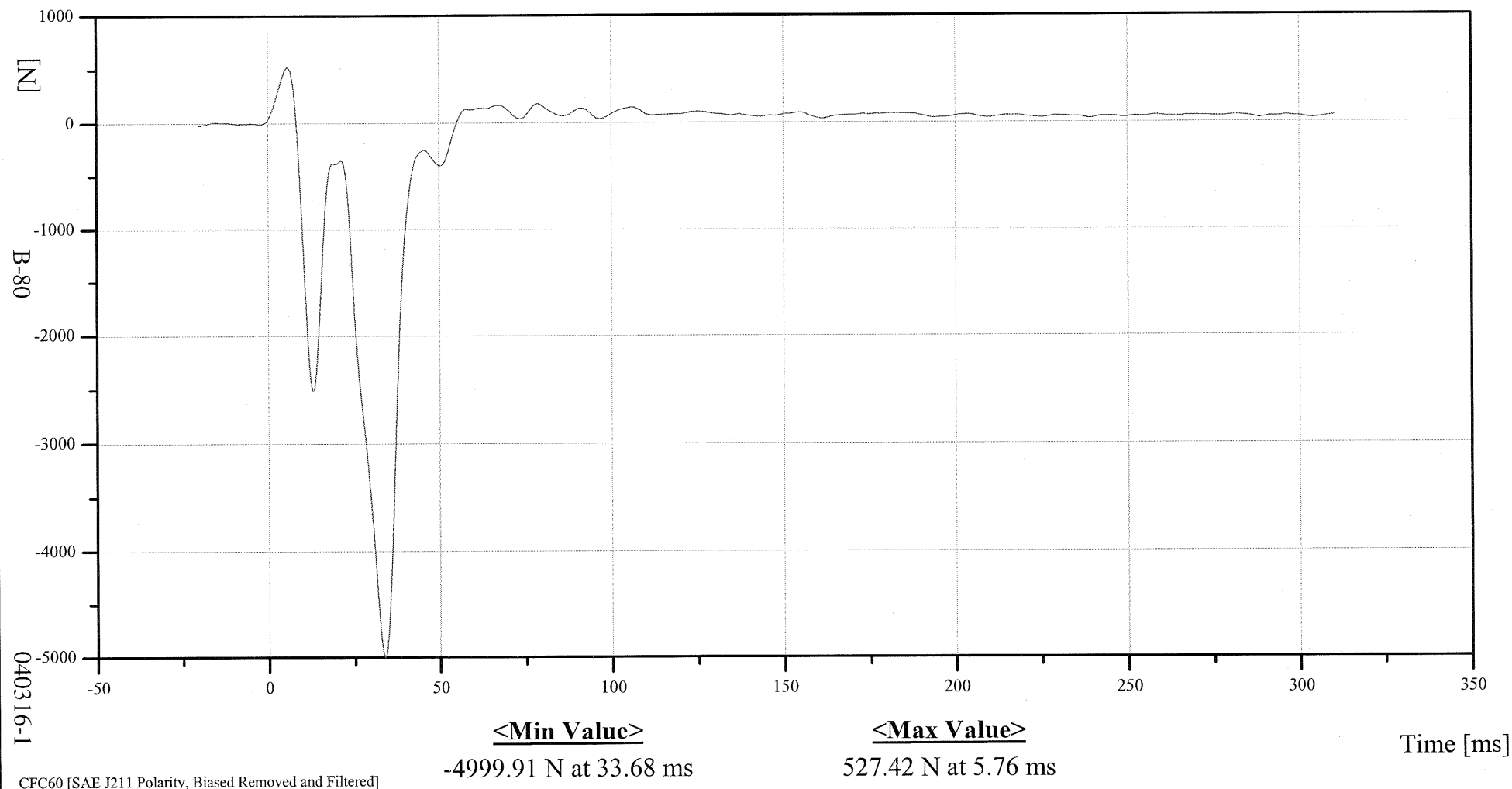
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0507





Transportation Research Center, Inc.

ROW 5 COLUMN 8

Date: 03/16/2004

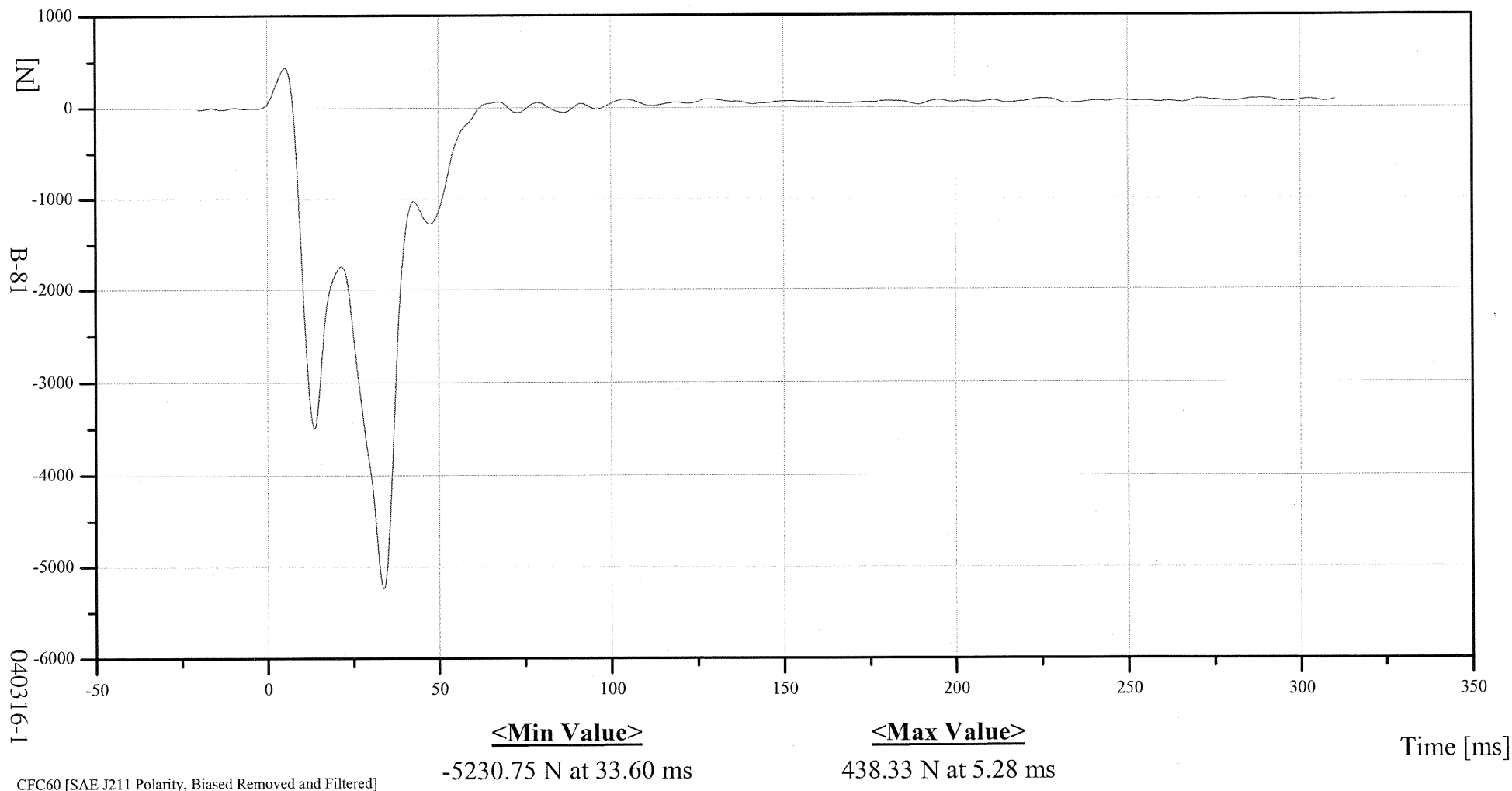
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0508





Transportation Research Center, Inc.

ROW 5 COLUMN 9

Date: 03/16/2004

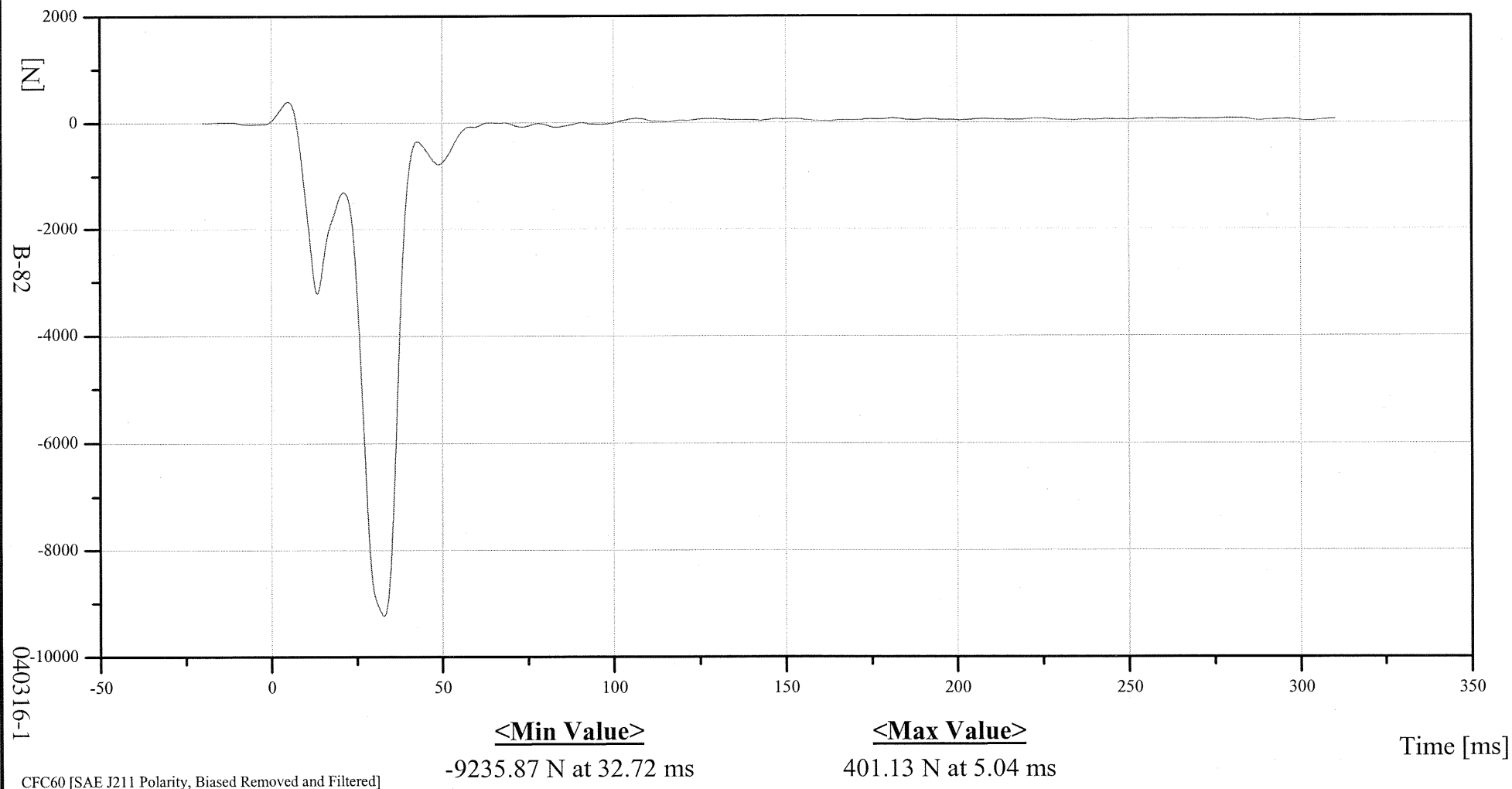
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0509





Transportation Research Center, Inc.

ROW 5 COLUMN 10

Date: 03/16/2004

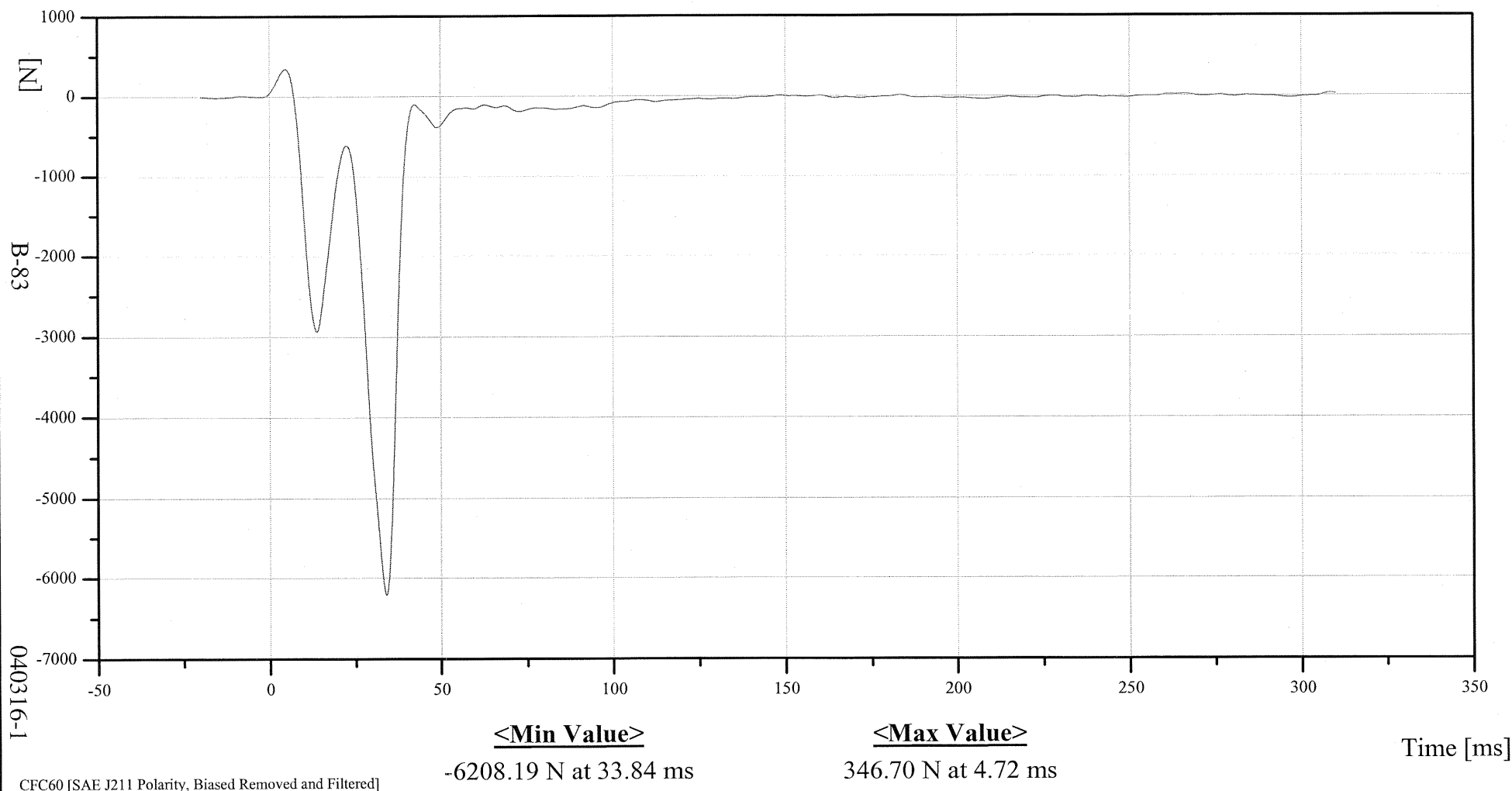
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0510





Transportation Research Center, Inc.

ROW 5 COLUMN 11

Date: 03/16/2004

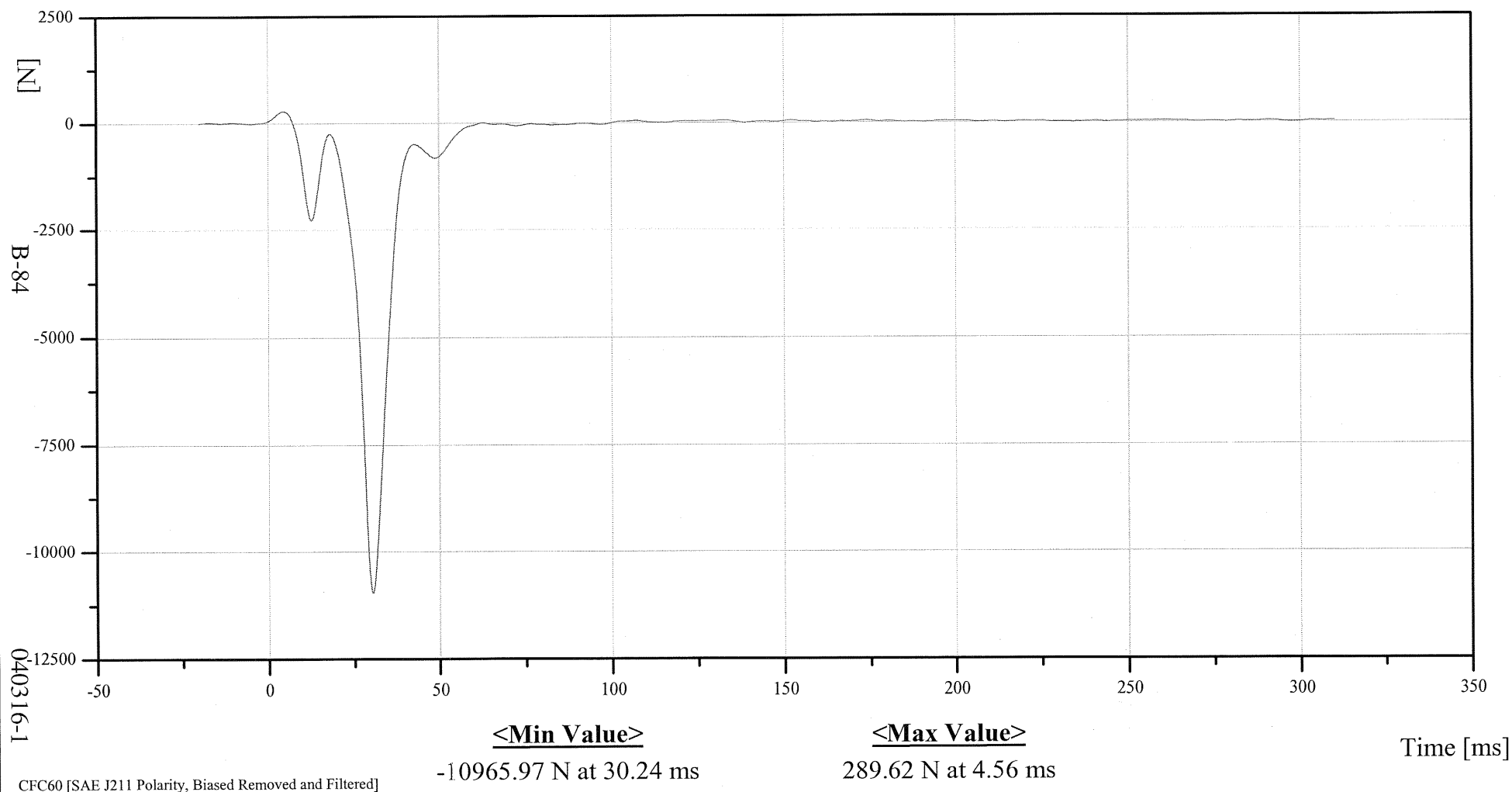
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0511





Transportation Research Center, Inc.

ROW 5 COLUMN 12

Date: 03/16/2004

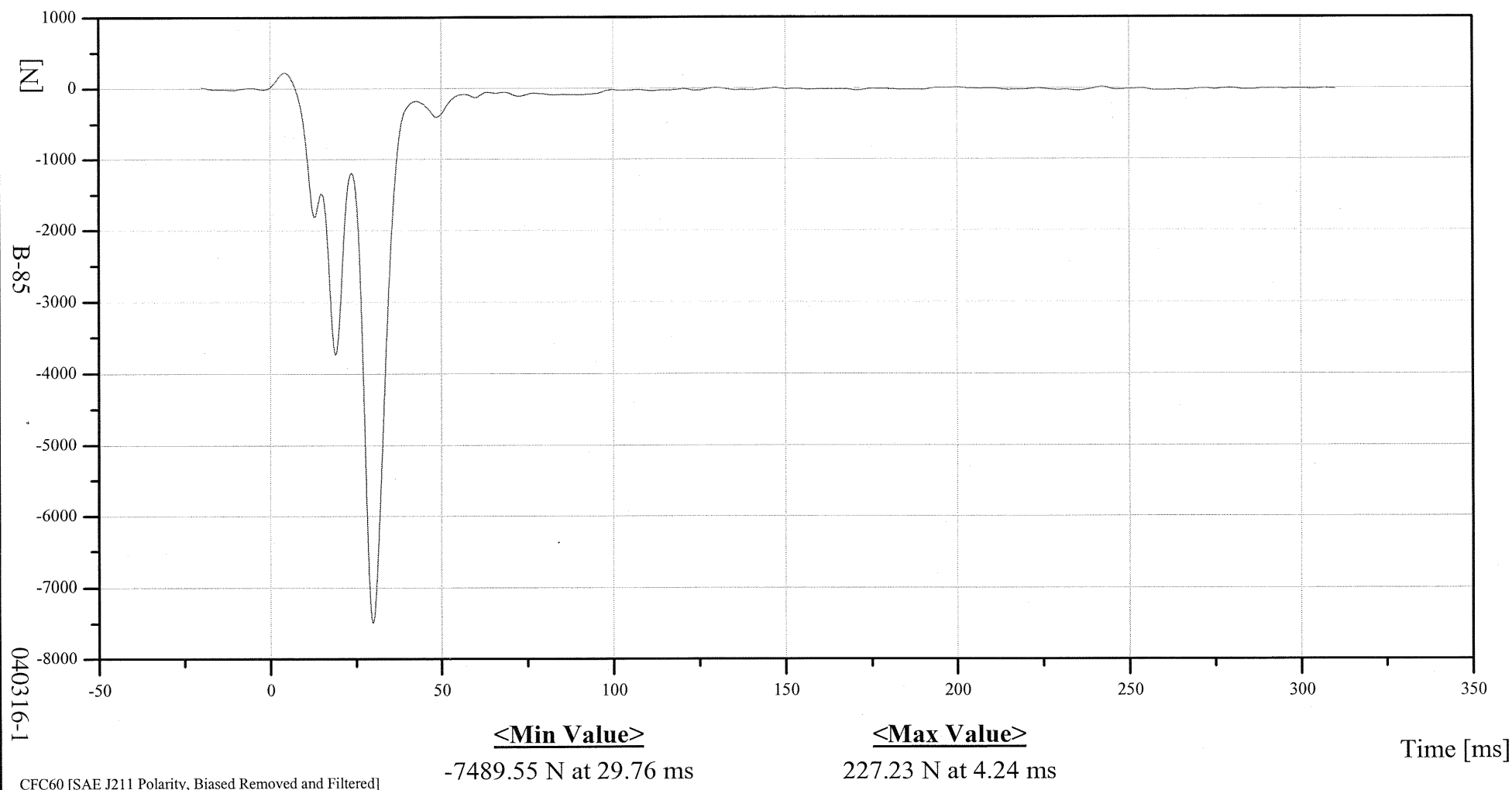
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0512





Transportation Research Center, Inc.

ROW 5 COLUMN 13

Date: 03/16/2004

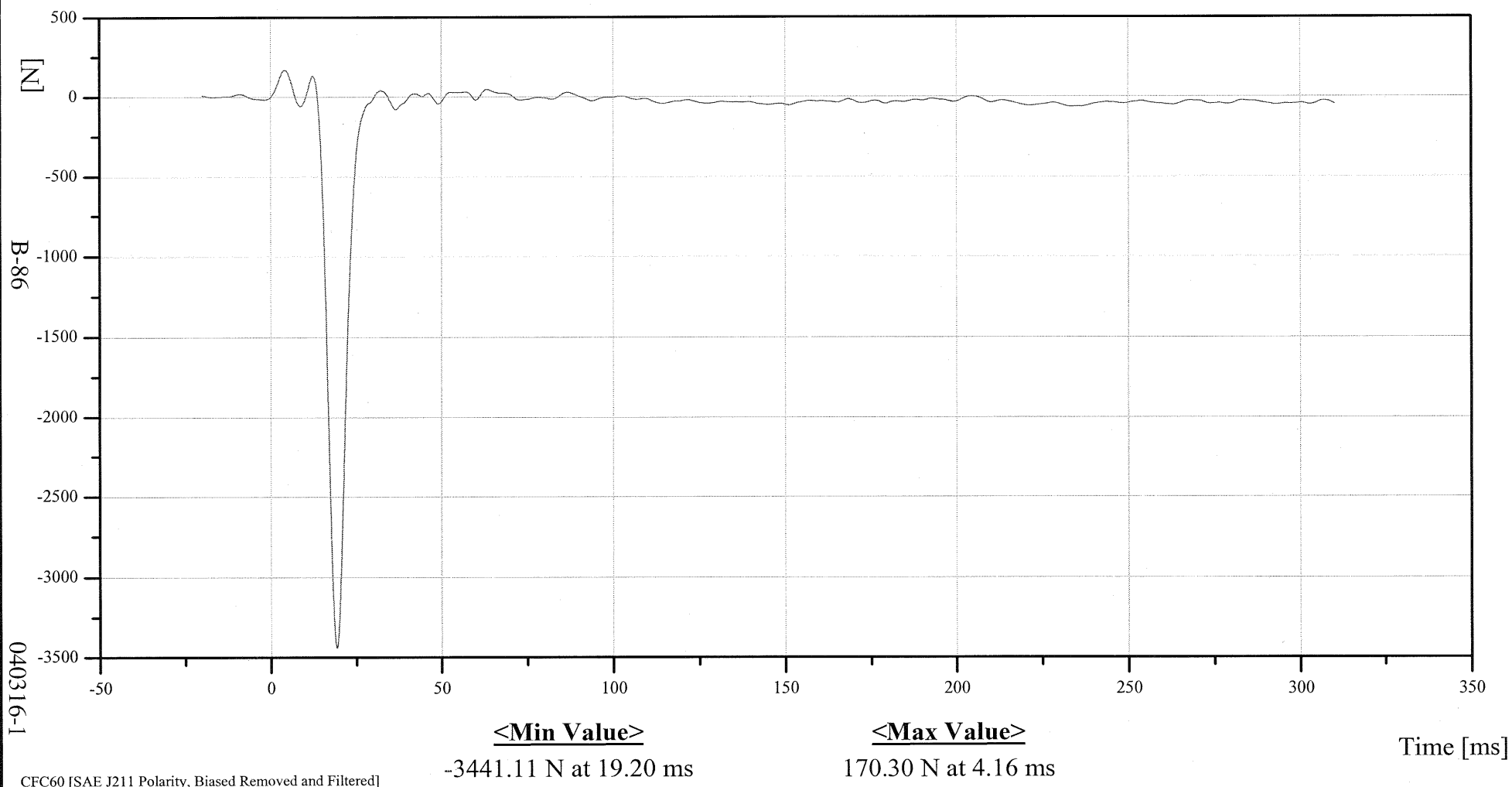
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0513





Transportation Research Center, Inc.

ROW 5 COLUMN 14

Date: 03/16/2004

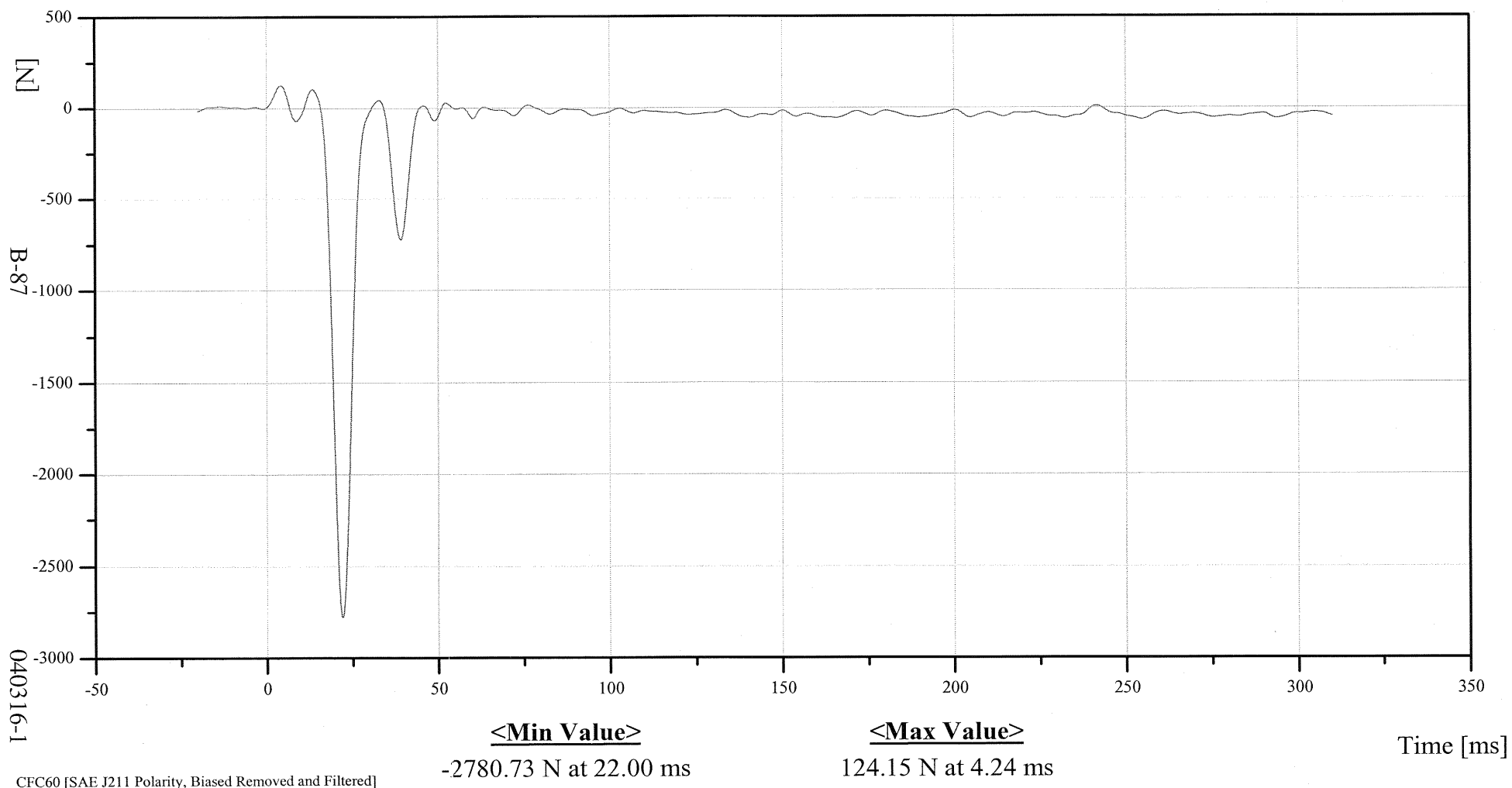
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0514





Transportation Research Center, Inc.

ROW 5 COLUMN 15

Date: 03/16/2004

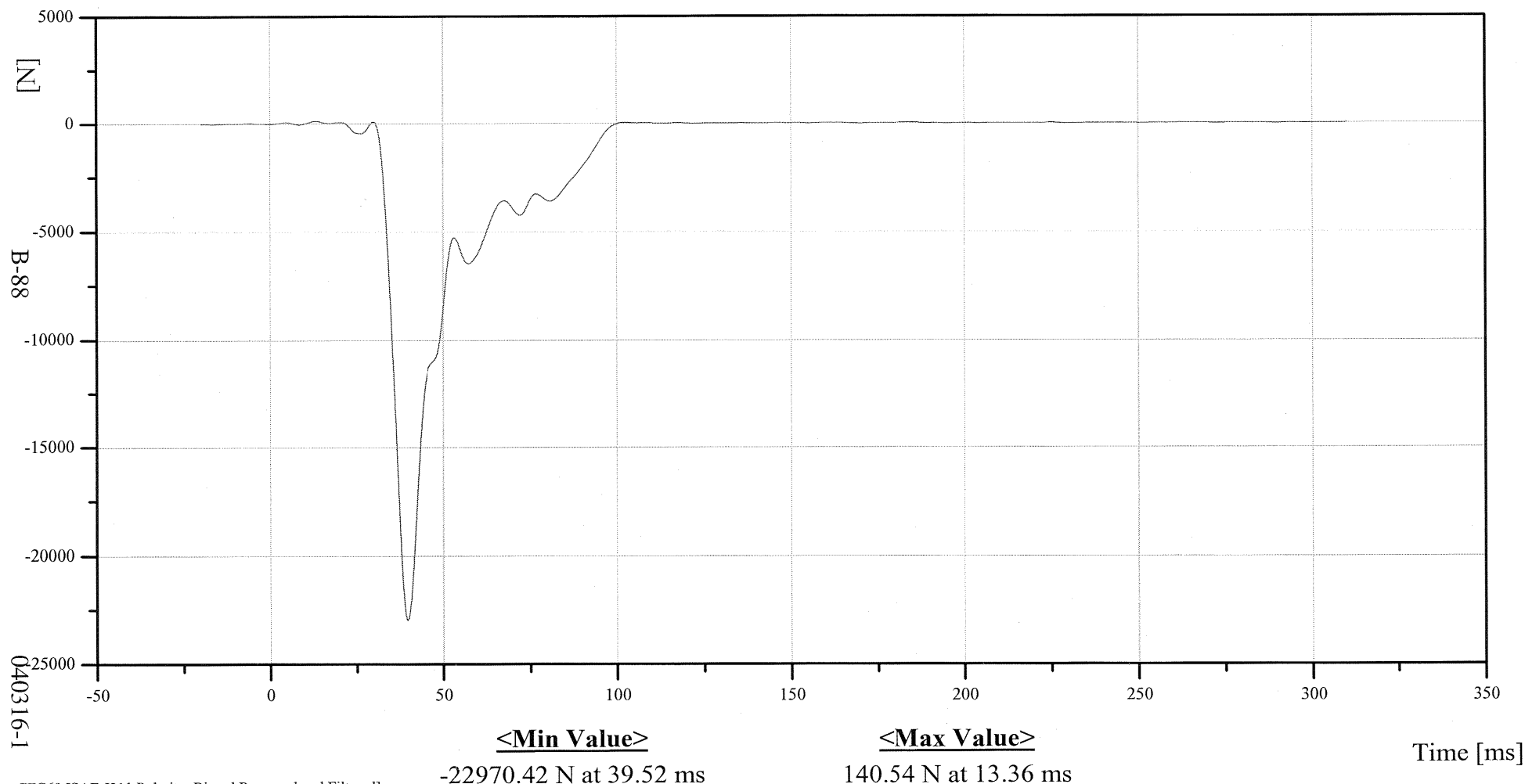
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0515





Transportation Research Center, Inc.

ROW 5 COLUMN 16

Date: 03/16/2004

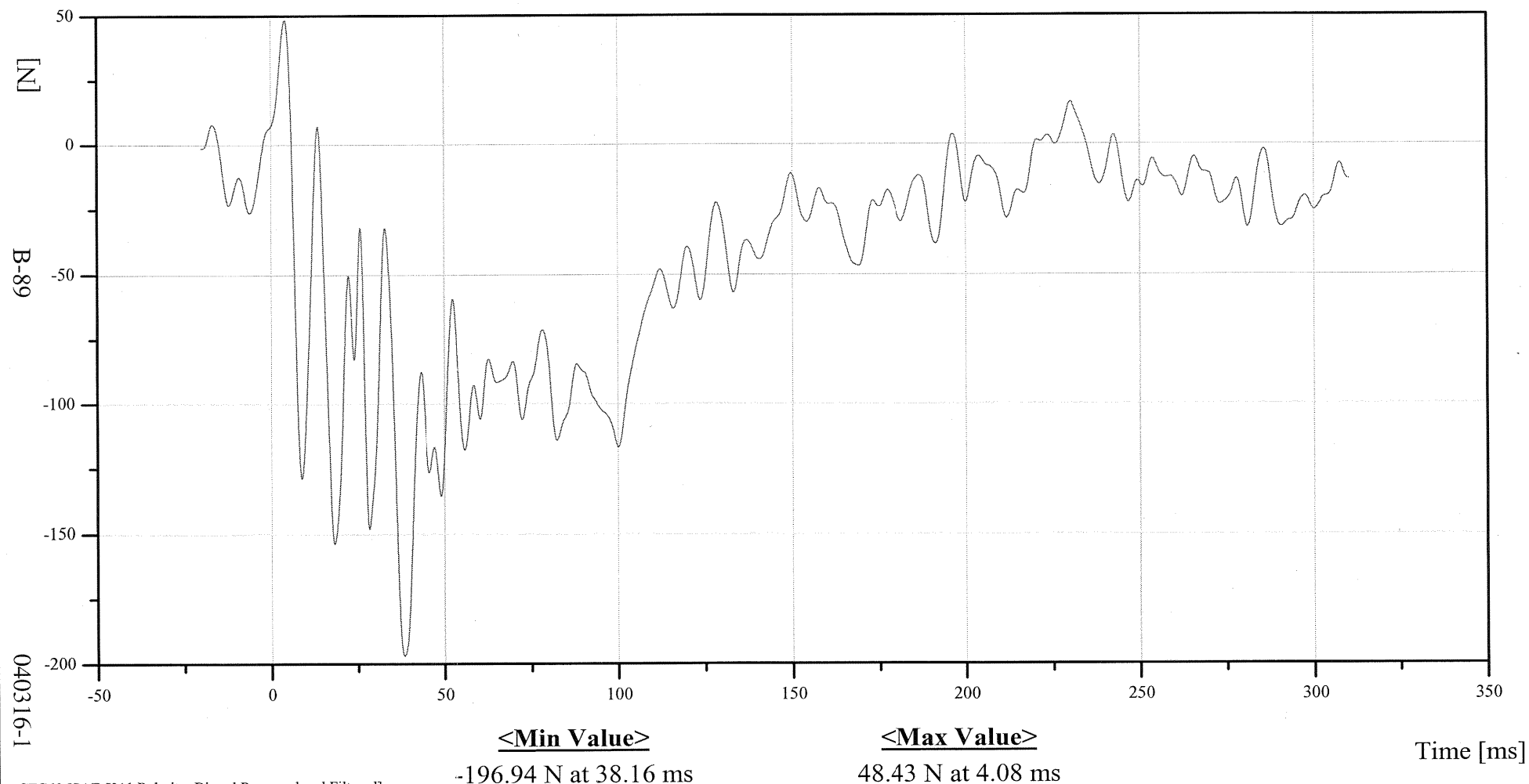
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0516





Transportation Research Center, Inc.

ROW 6 COLUMN 1

Date: 03/16/2004

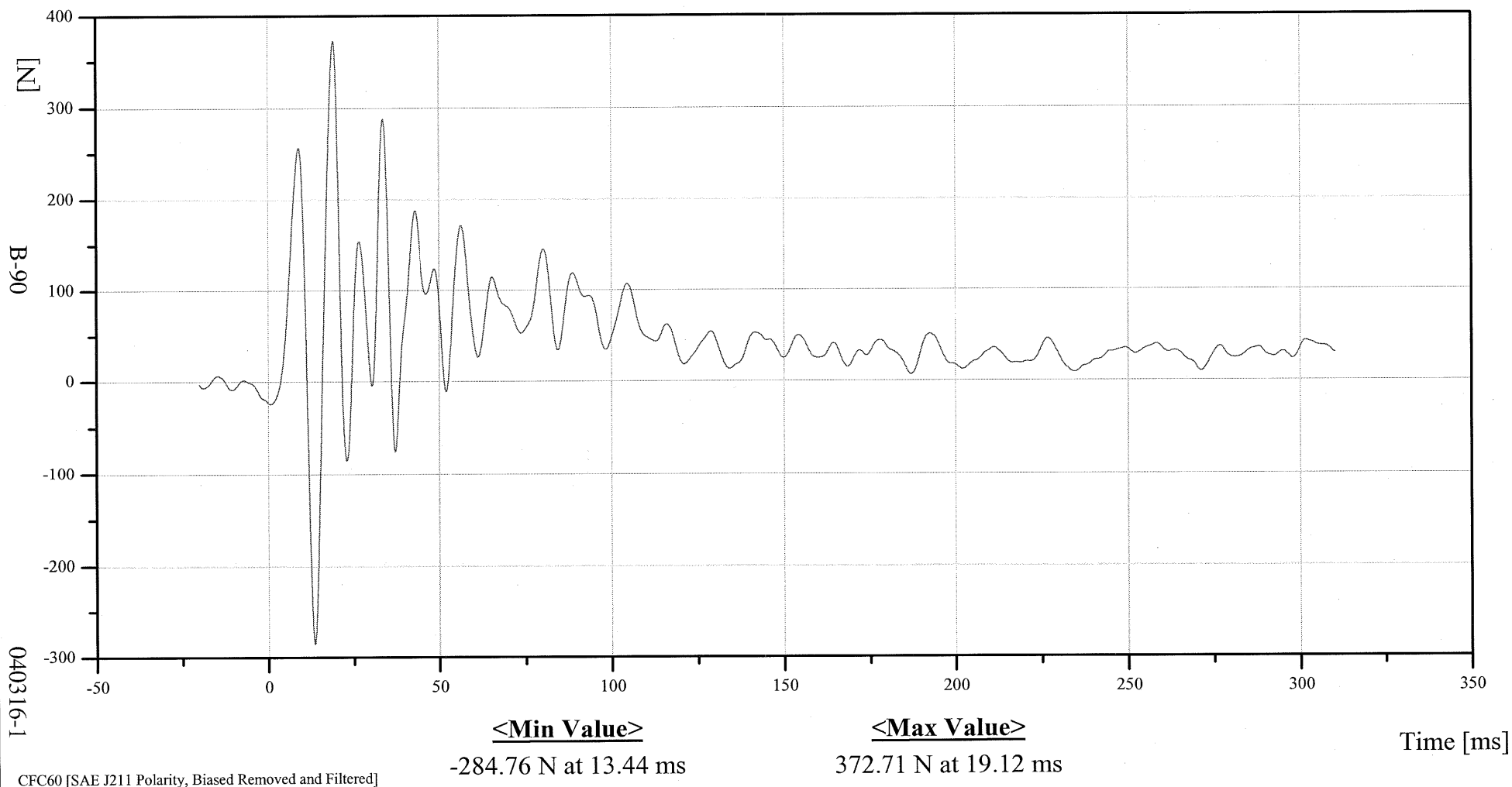
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0601





Transportation Research Center, Inc.

ROW 6 COLUMN 2

Date: 03/16/2004

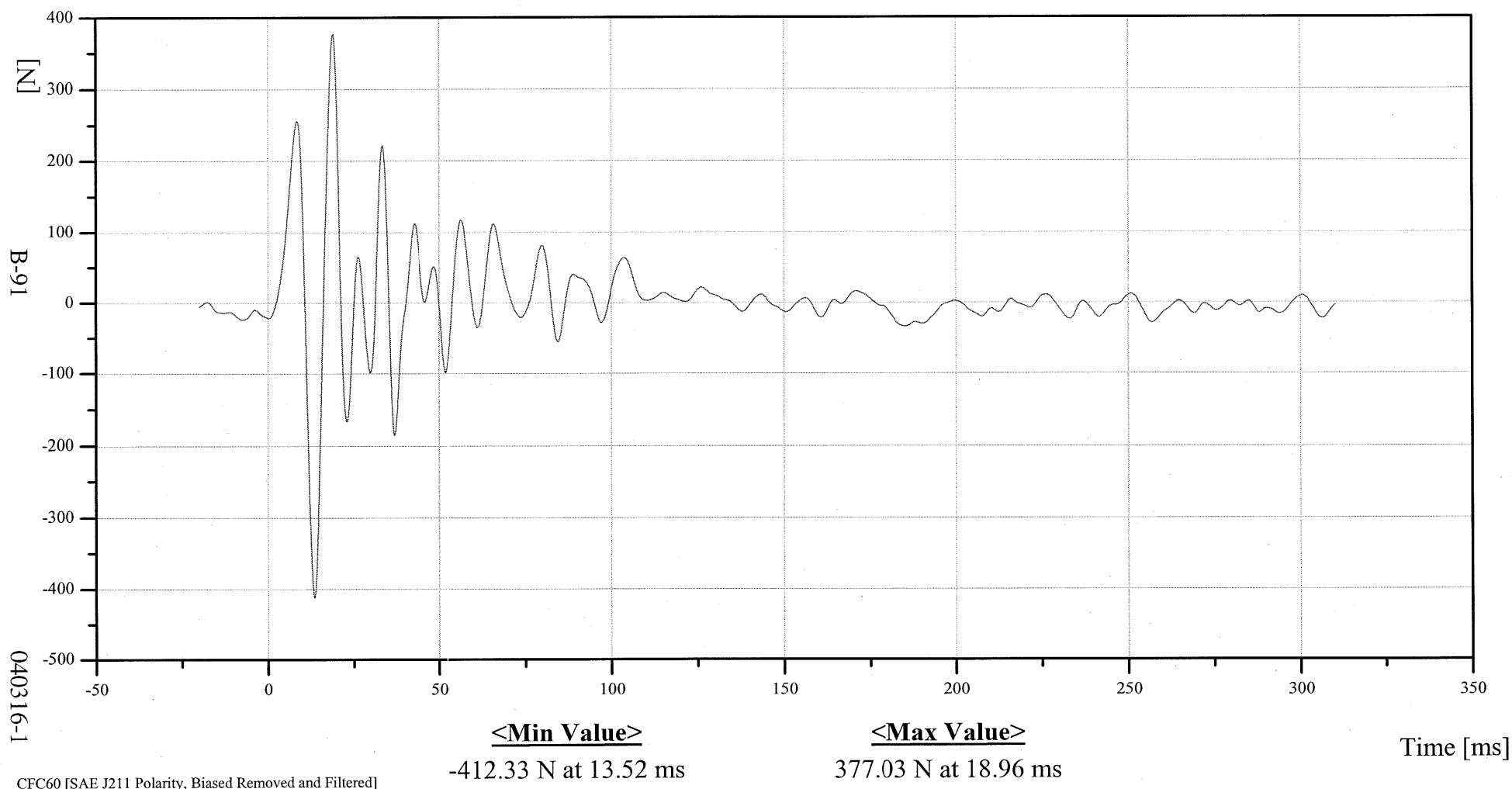
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0602





Transportation Research Center, Inc.

ROW 6 COLUMN 3

Date: 03/16/2004

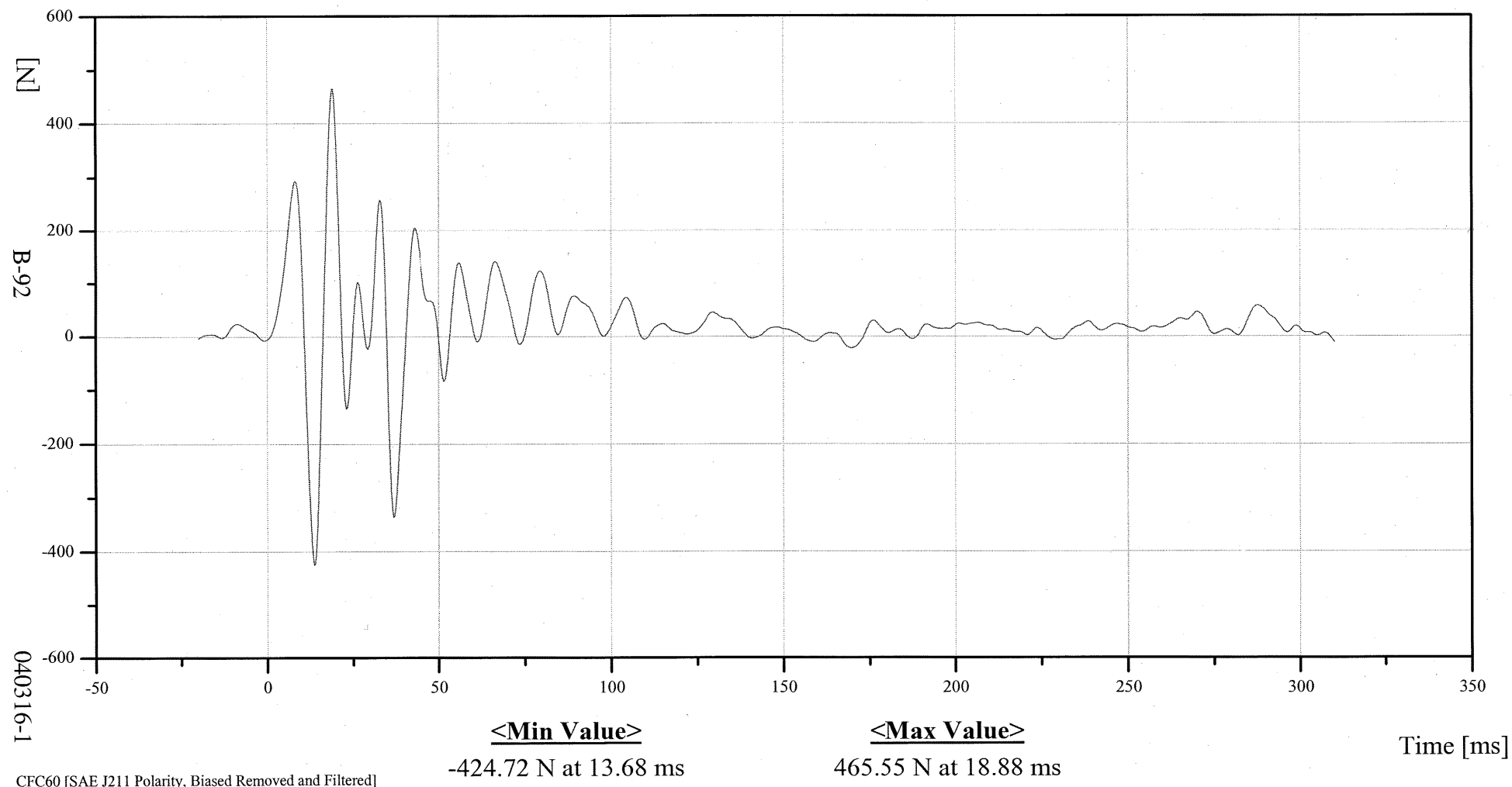
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0603





Transportation Research Center, Inc.

ROW 6 COLUMN 4

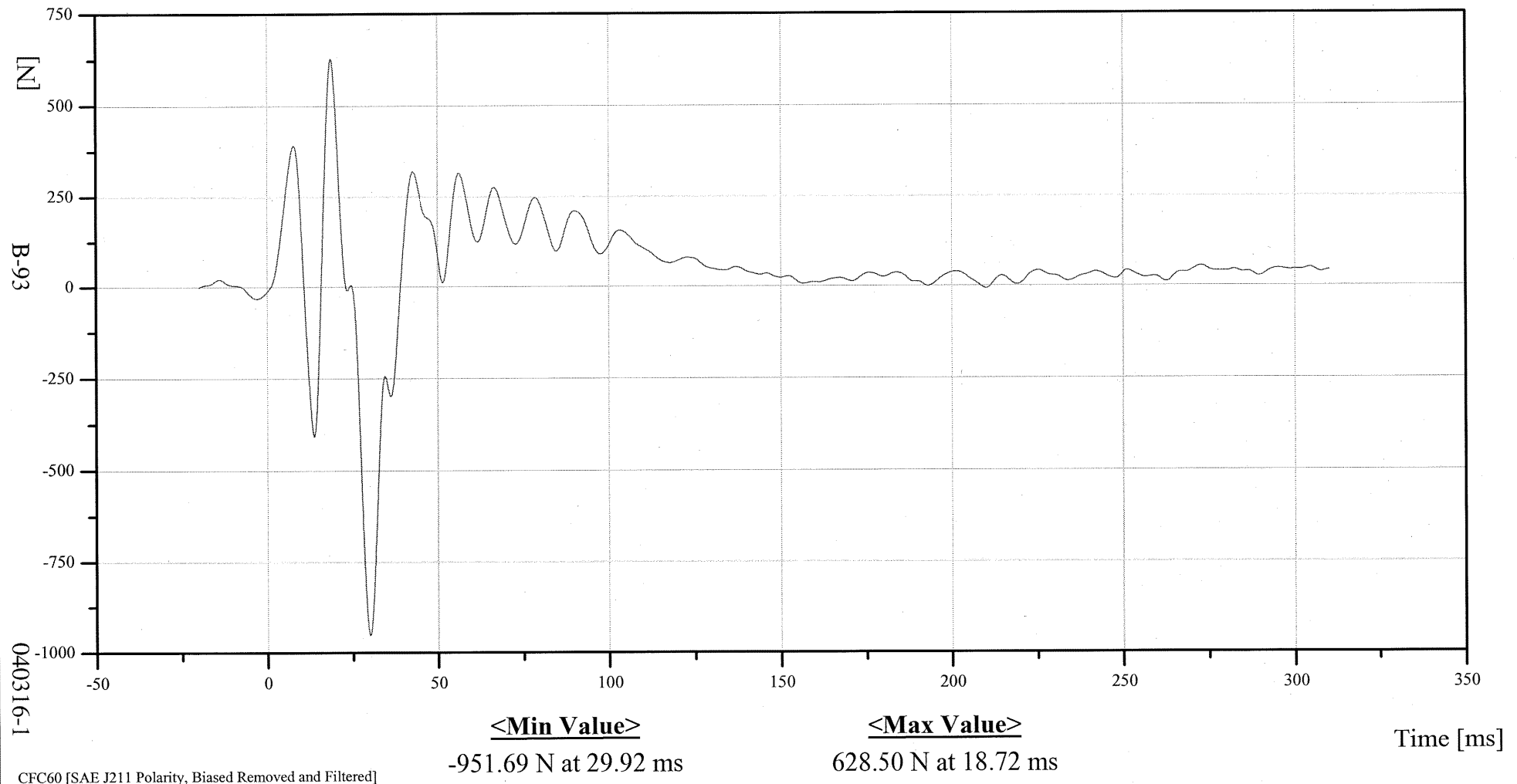
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0604





Transportation Research Center, Inc.

ROW 6 COLUMN 5

Date: 03/16/2004

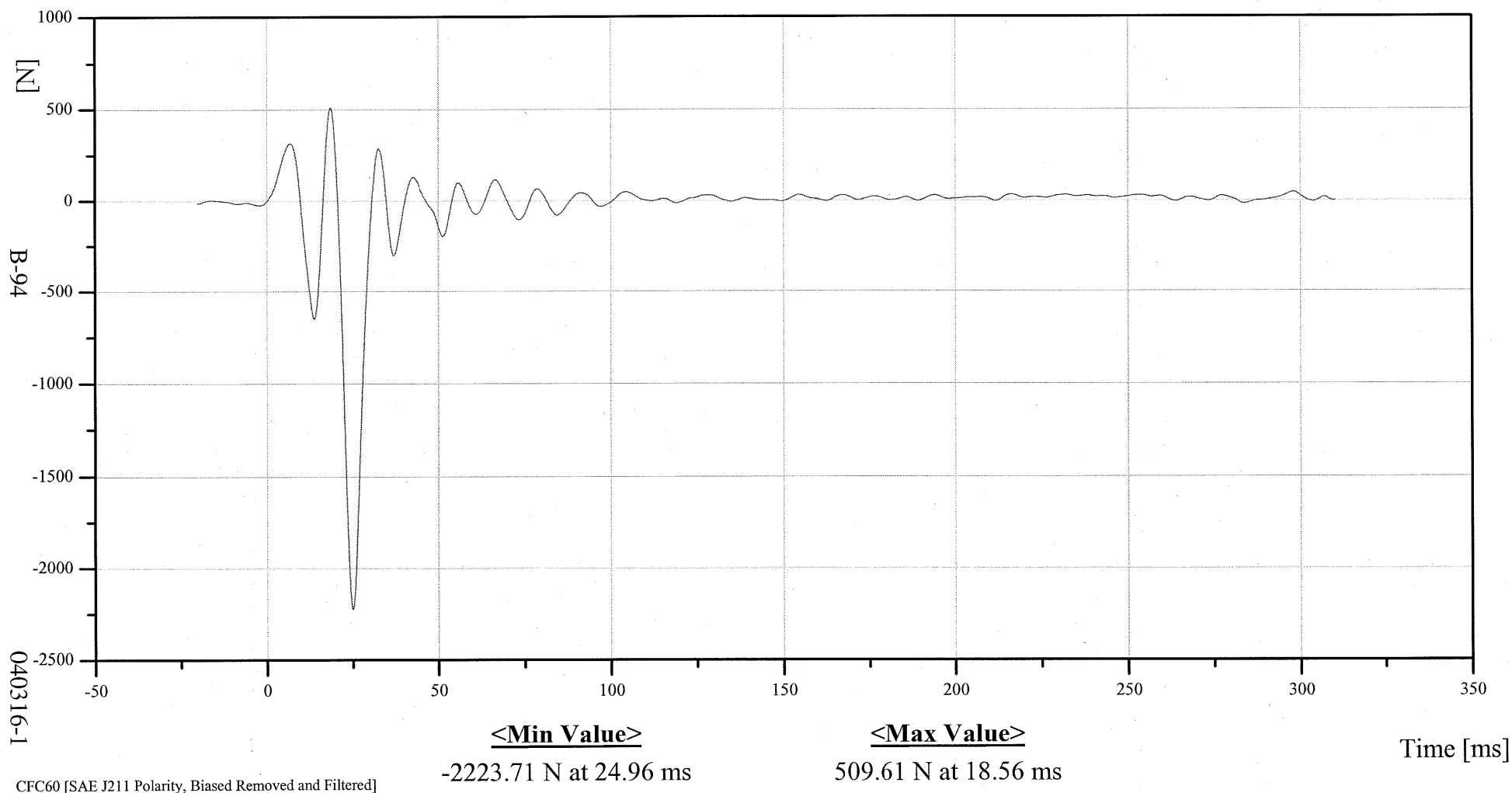
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0605





Transportation Research Center, Inc.

ROW 6 COLUMN 6

Date: 03/16/2004

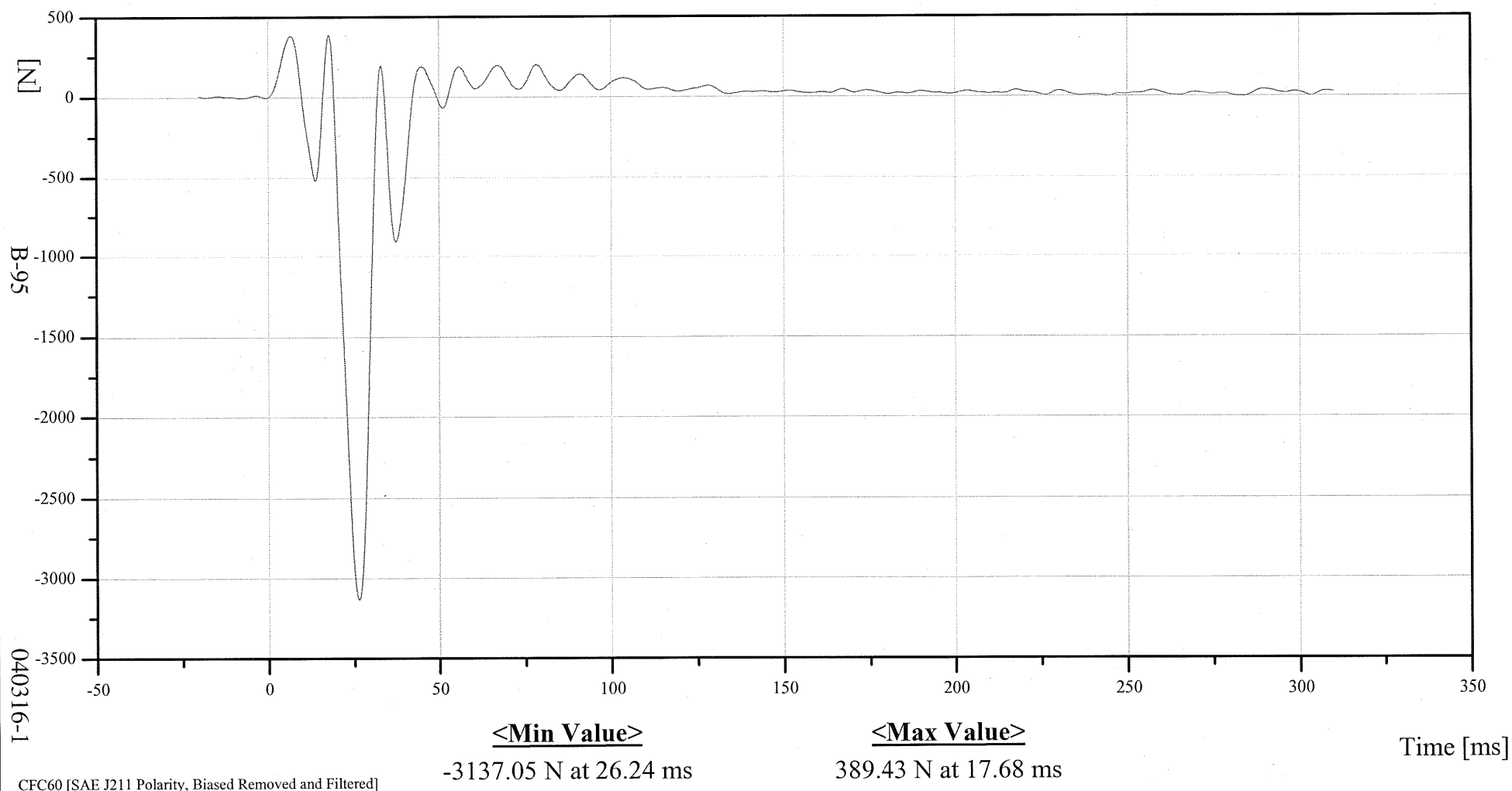
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0606





Transportation Research Center, Inc.

ROW 6 COLUMN 7

Date: 03/16/2004

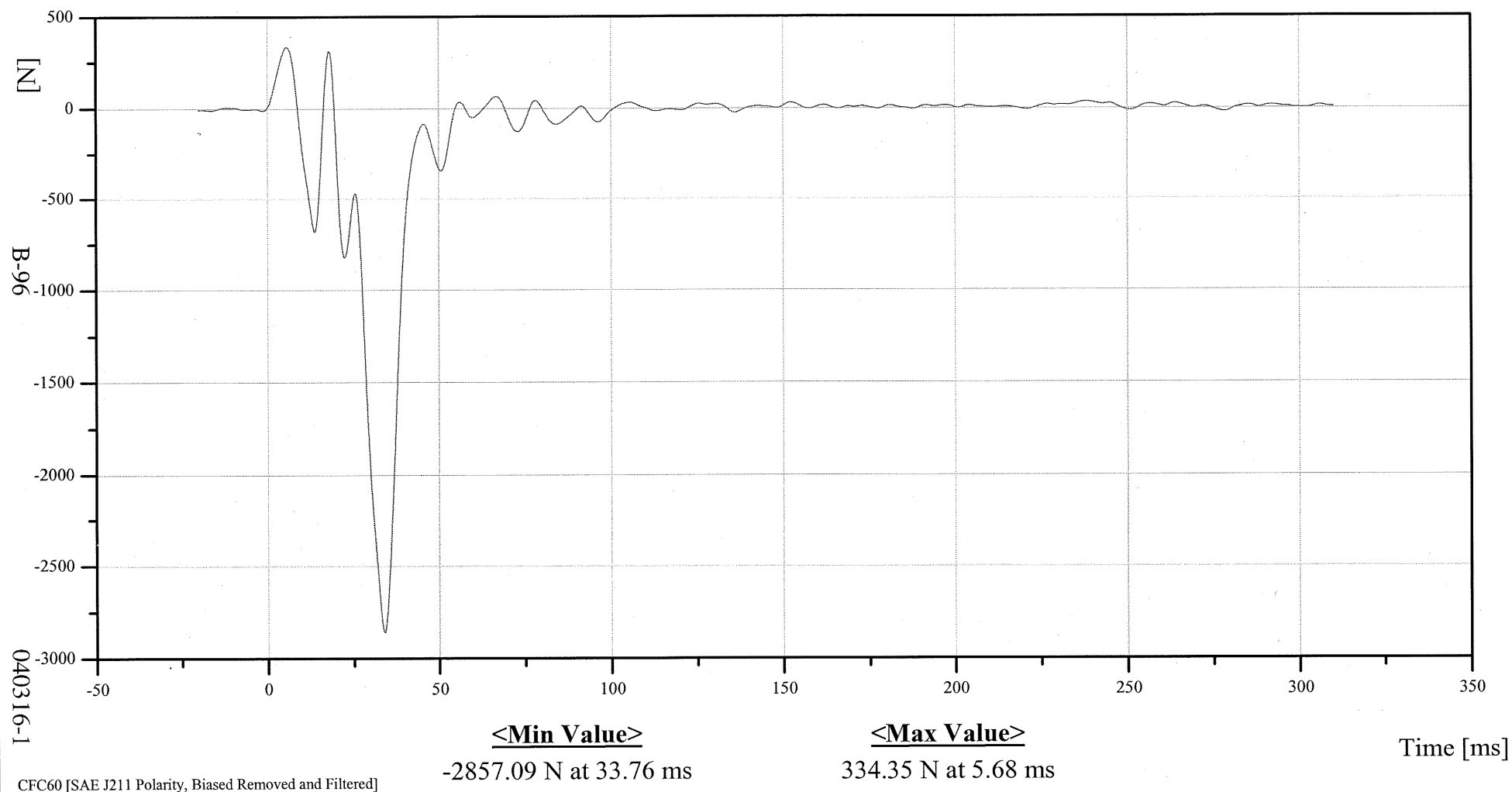
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0607





Transportation Research Center, Inc.

ROW 6 COLUMN 8

Date: 03/16/2004

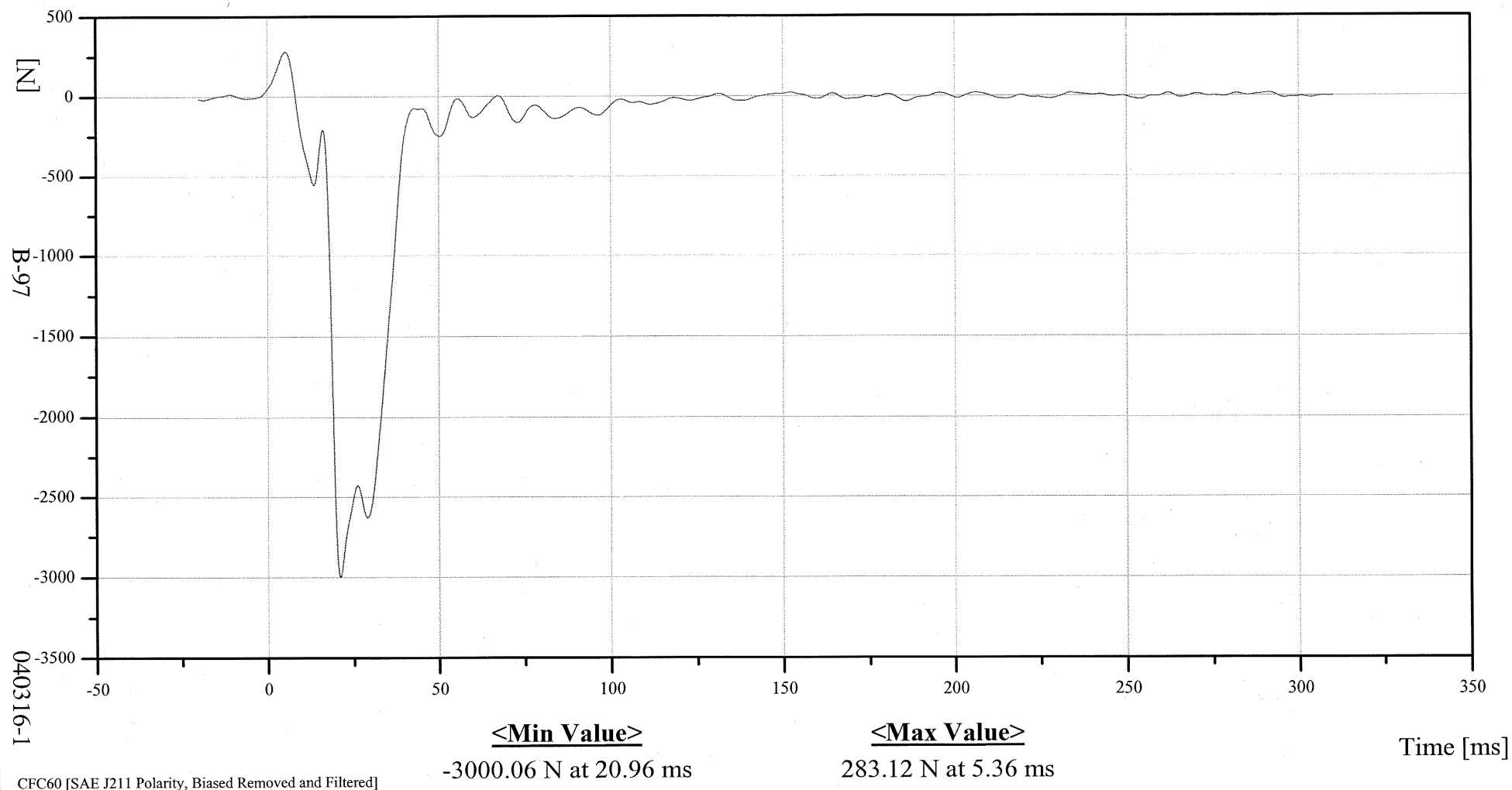
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0608





Transportation Research Center, Inc.

ROW 6 COLUMN 9

Date: 03/16/2004

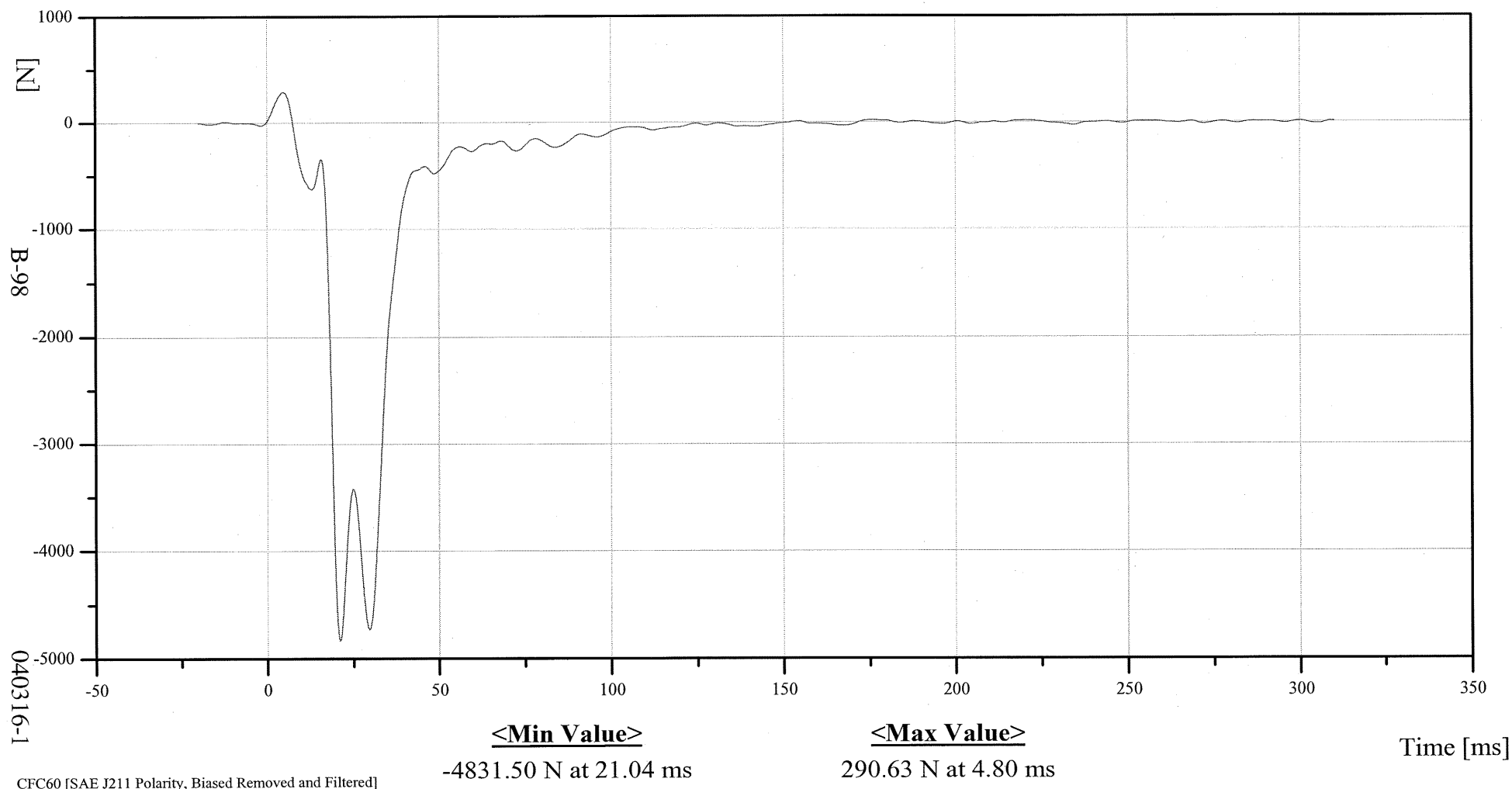
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0609





Transportation Research Center, Inc.

ROW 6 COLUMN 10

Date: 03/16/2004

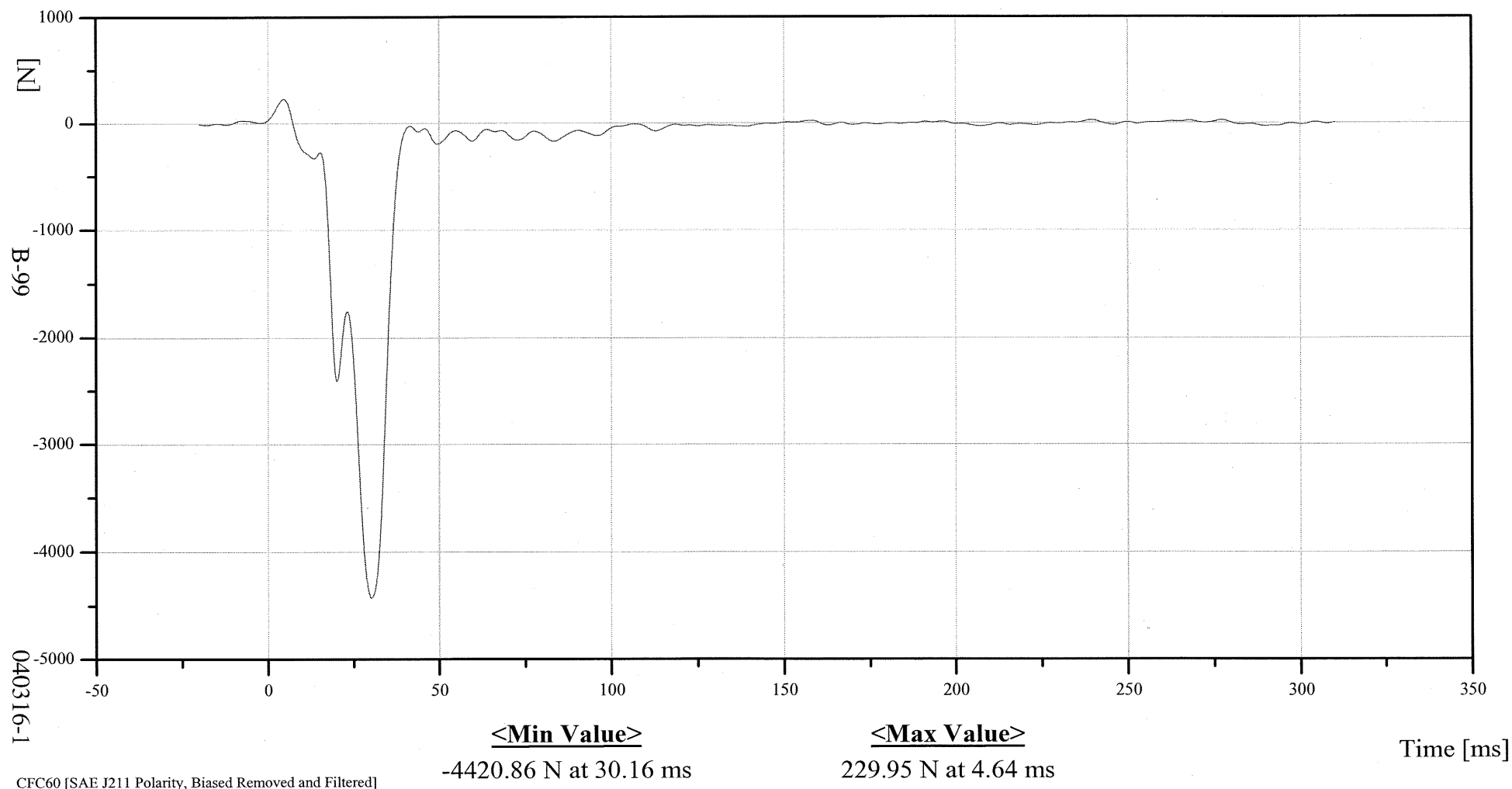
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0610





Transportation Research Center, Inc.

ROW 6 COLUMN 11

Date: 03/16/2004

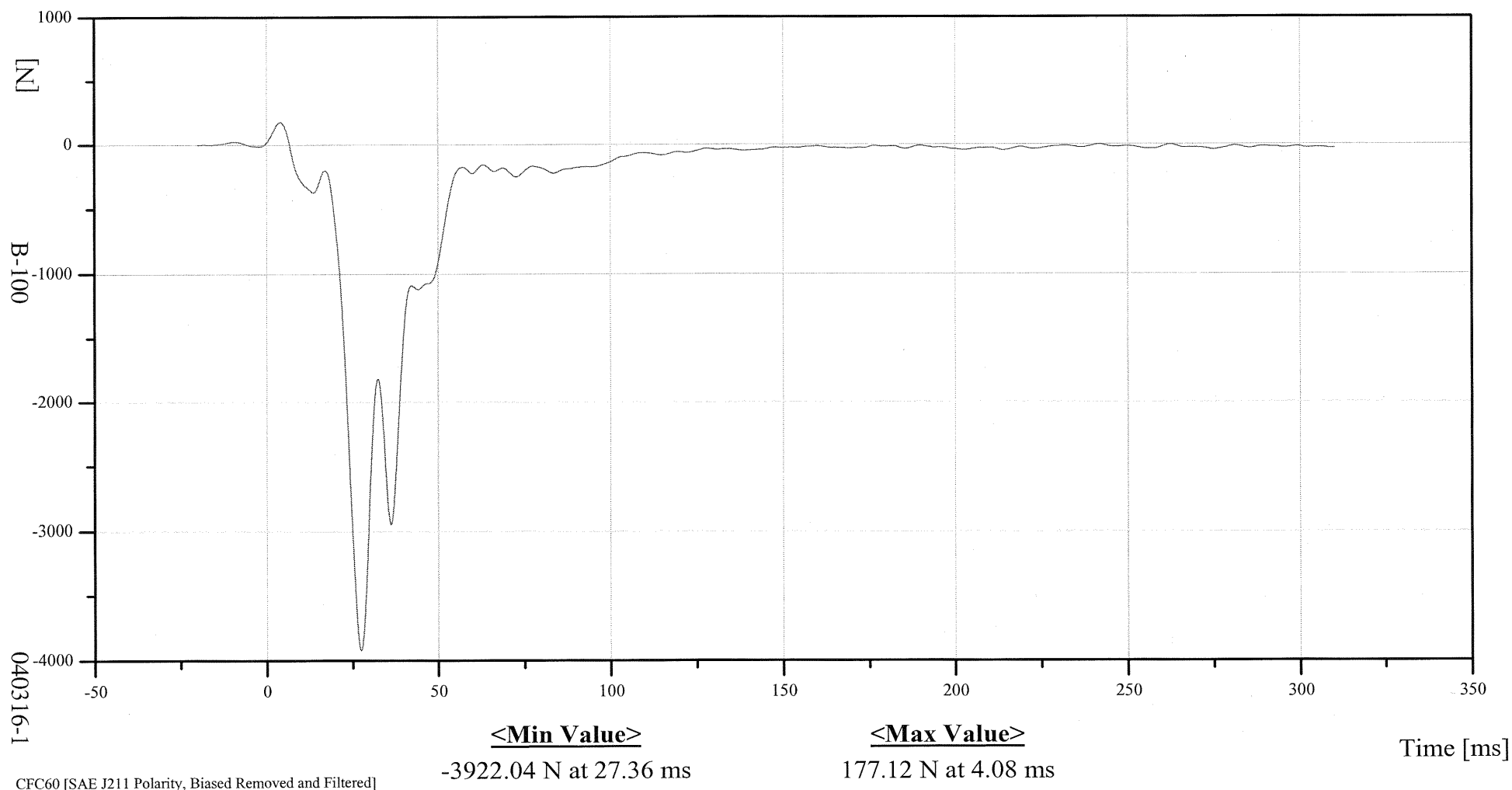
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0611





Transportation Research Center, Inc.

ROW 6 COLUMN 12

Date: 03/16/2004

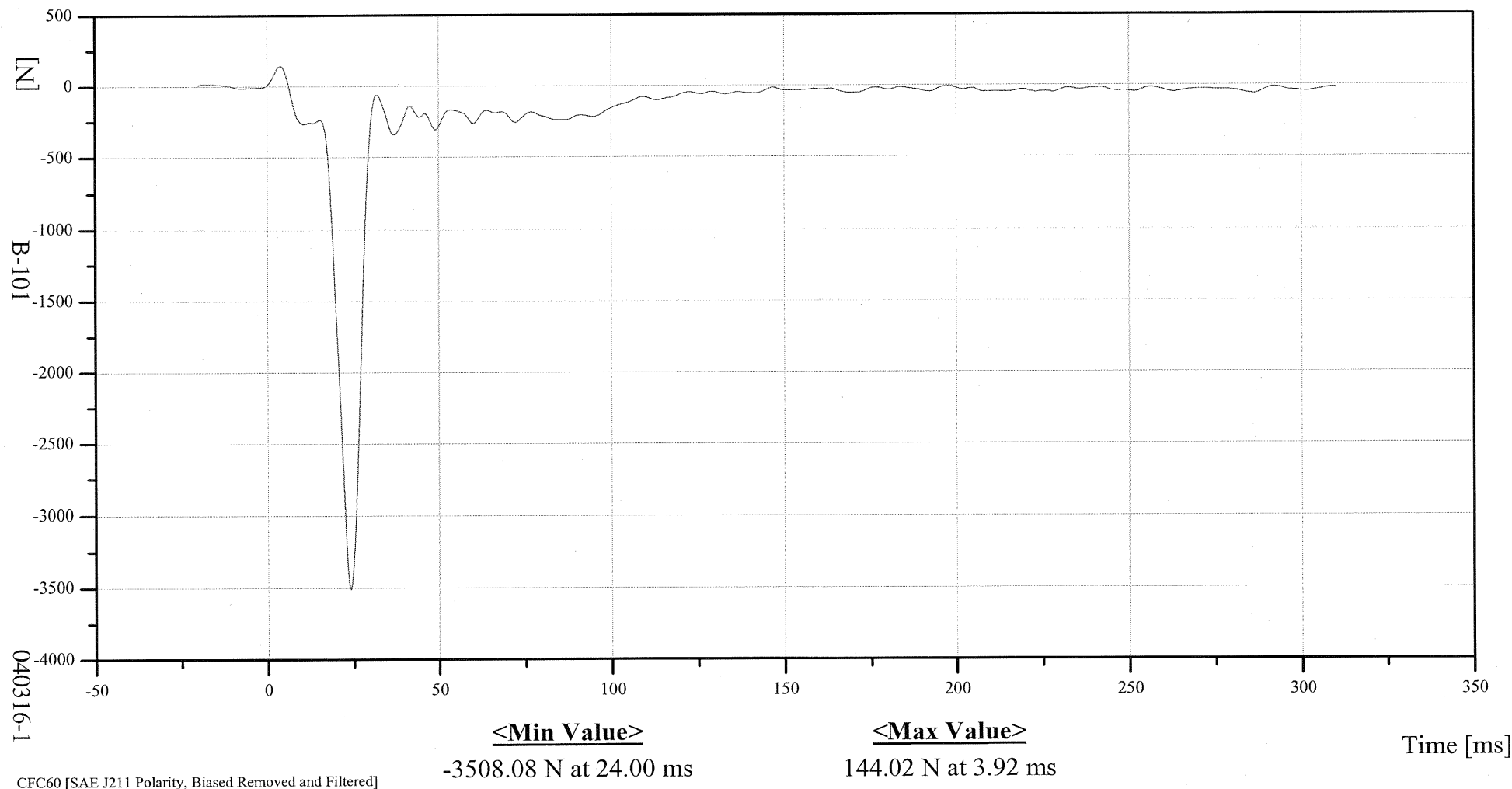
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0612





Transportation Research Center, Inc.

ROW 6 COLUMN 13

Date: 03/16/2004

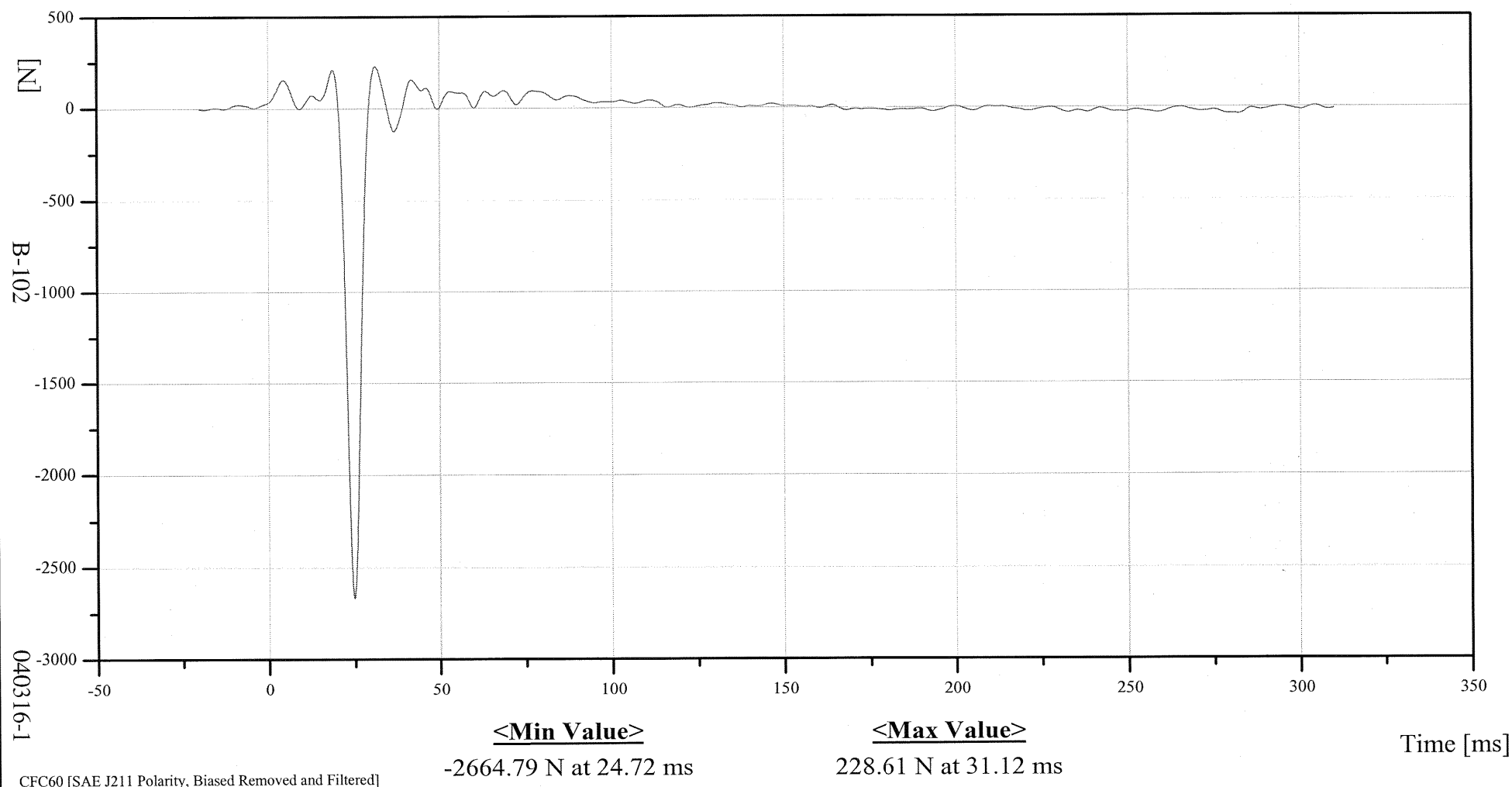
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0613





Transportation Research Center, Inc.

ROW 6 COLUMN 14

Date: 03/16/2004

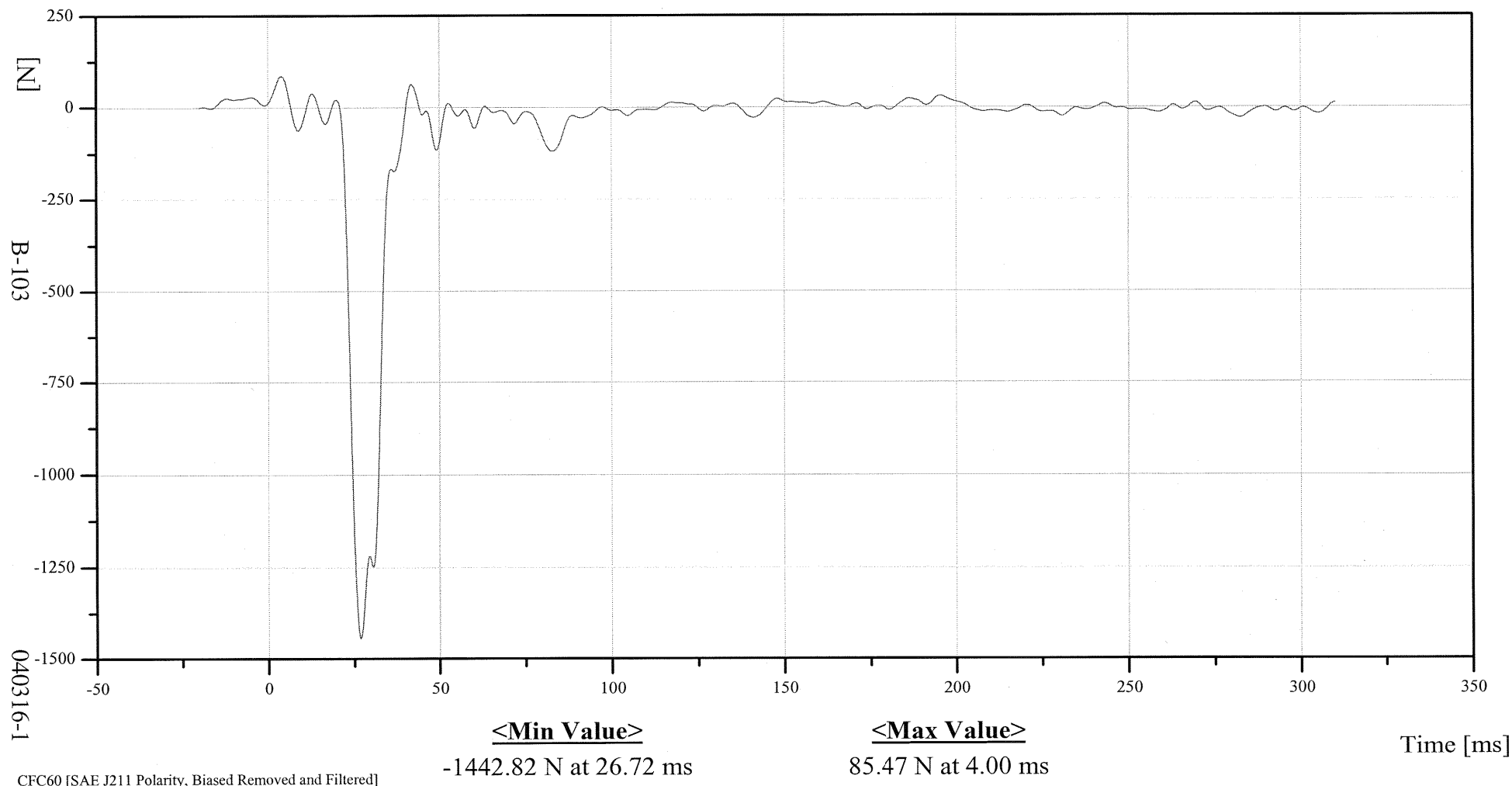
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0614





Transportation Research Center, Inc.

ROW 6 COLUMN 15

Date: 03/16/2004

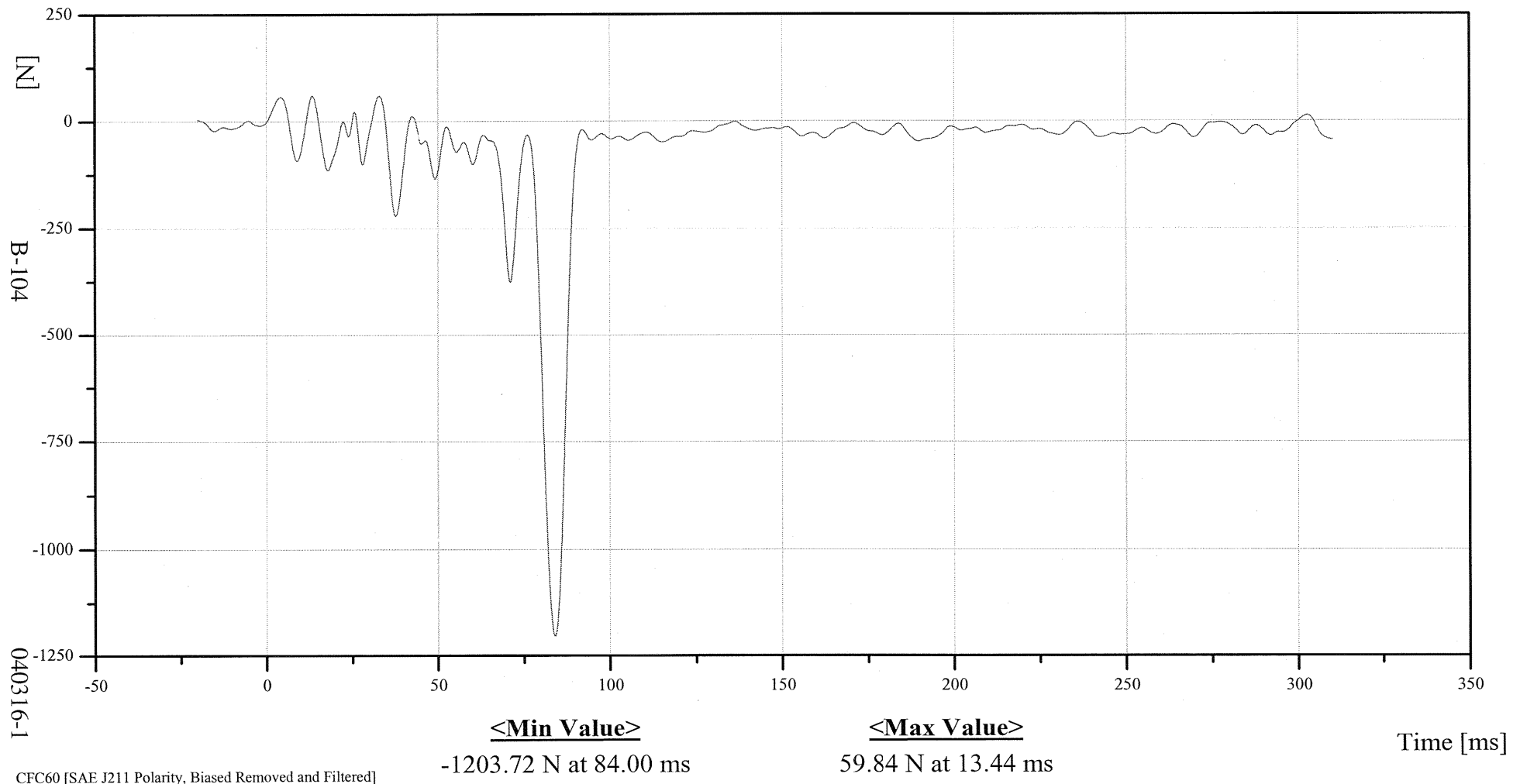
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0615





Transportation Research Center, Inc.

ROW 6 COLUMN 16

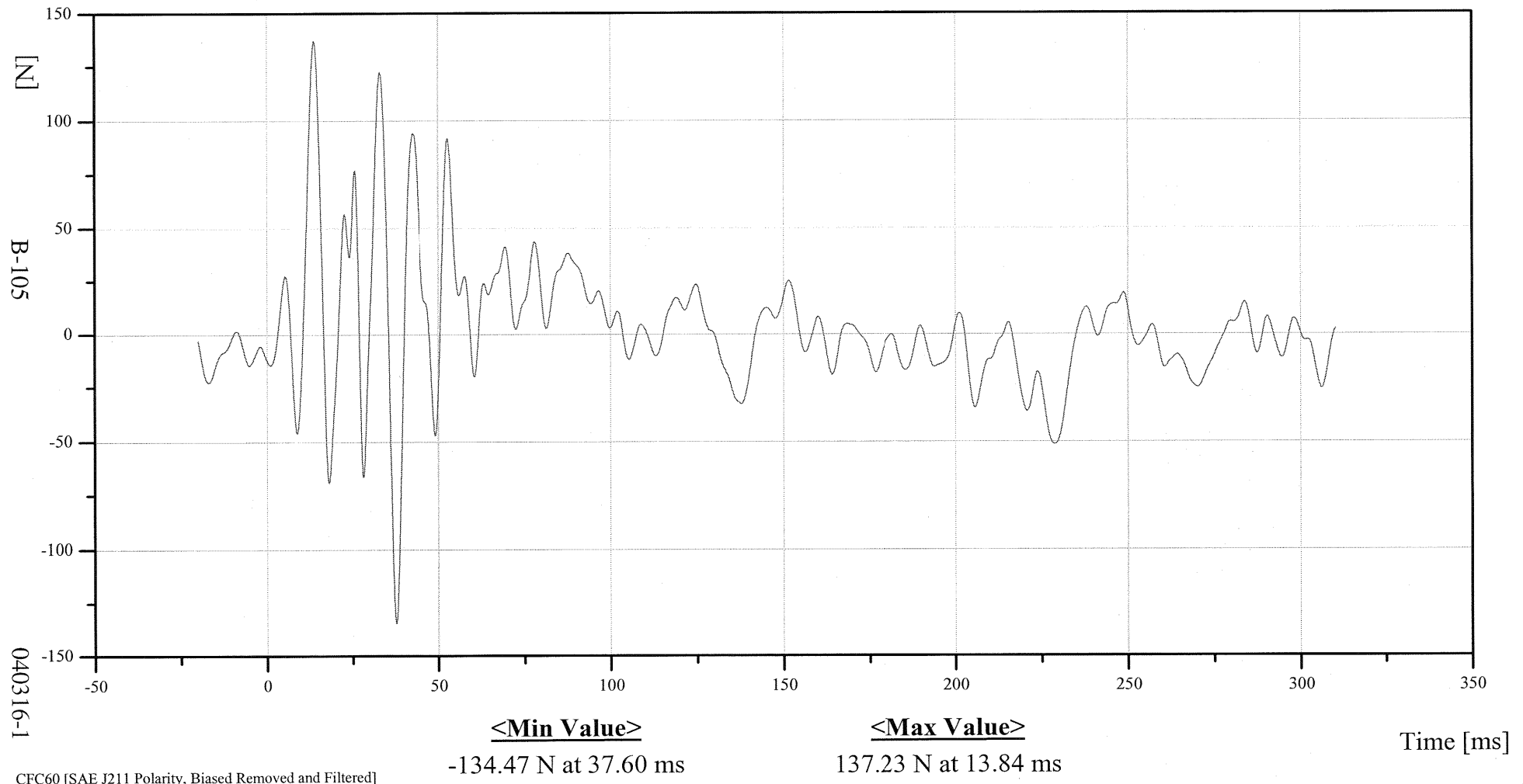
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0616





Transportation Research Center, Inc.

ROW 7 COLUMN 1

Date: 03/16/2004

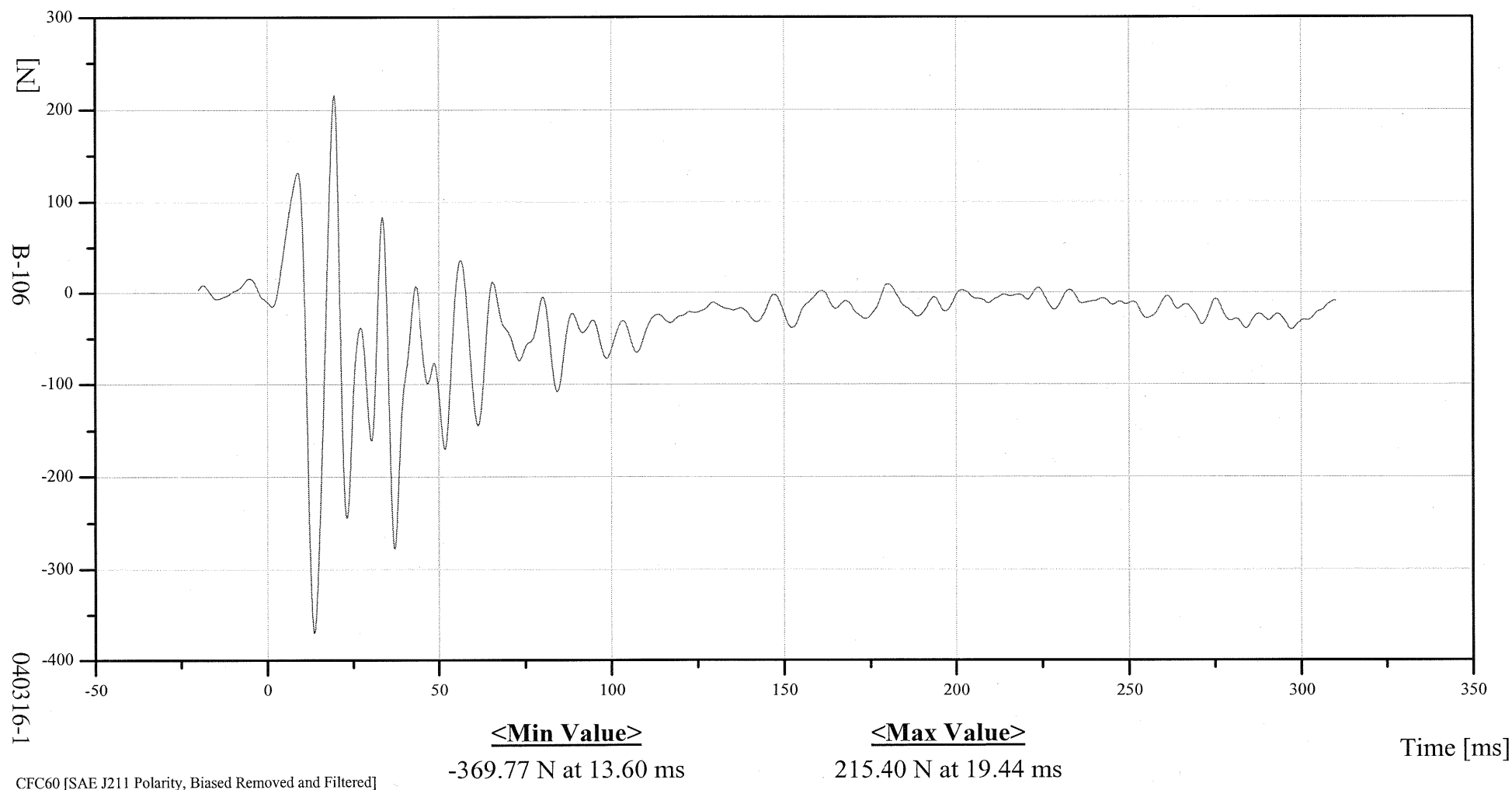
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0701





Transportation Research Center, Inc.

ROW 7 COLUMN 2

Date: 03/16/2004

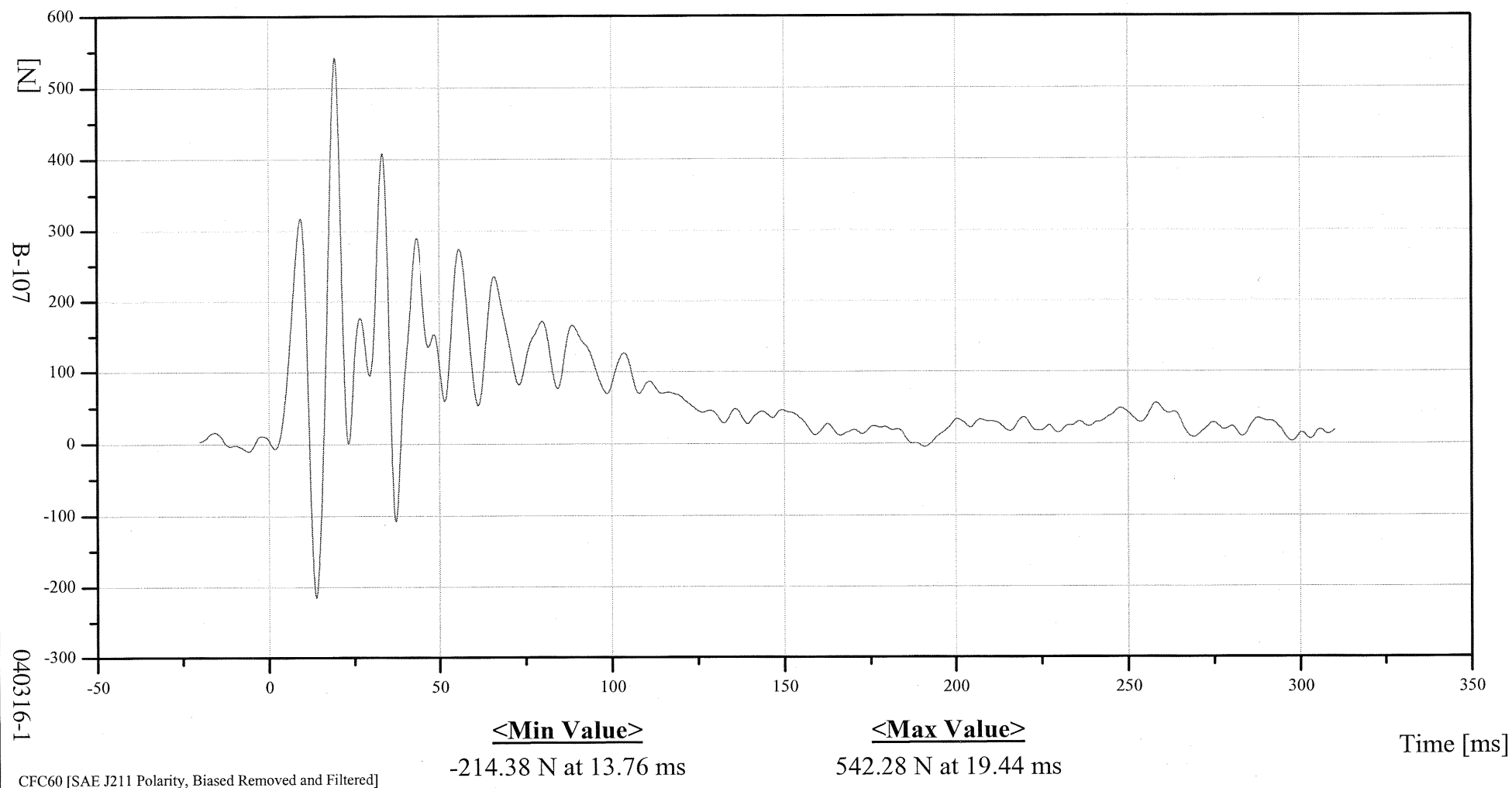
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0702





Transportation Research Center, Inc.

ROW 7 COLUMN 3

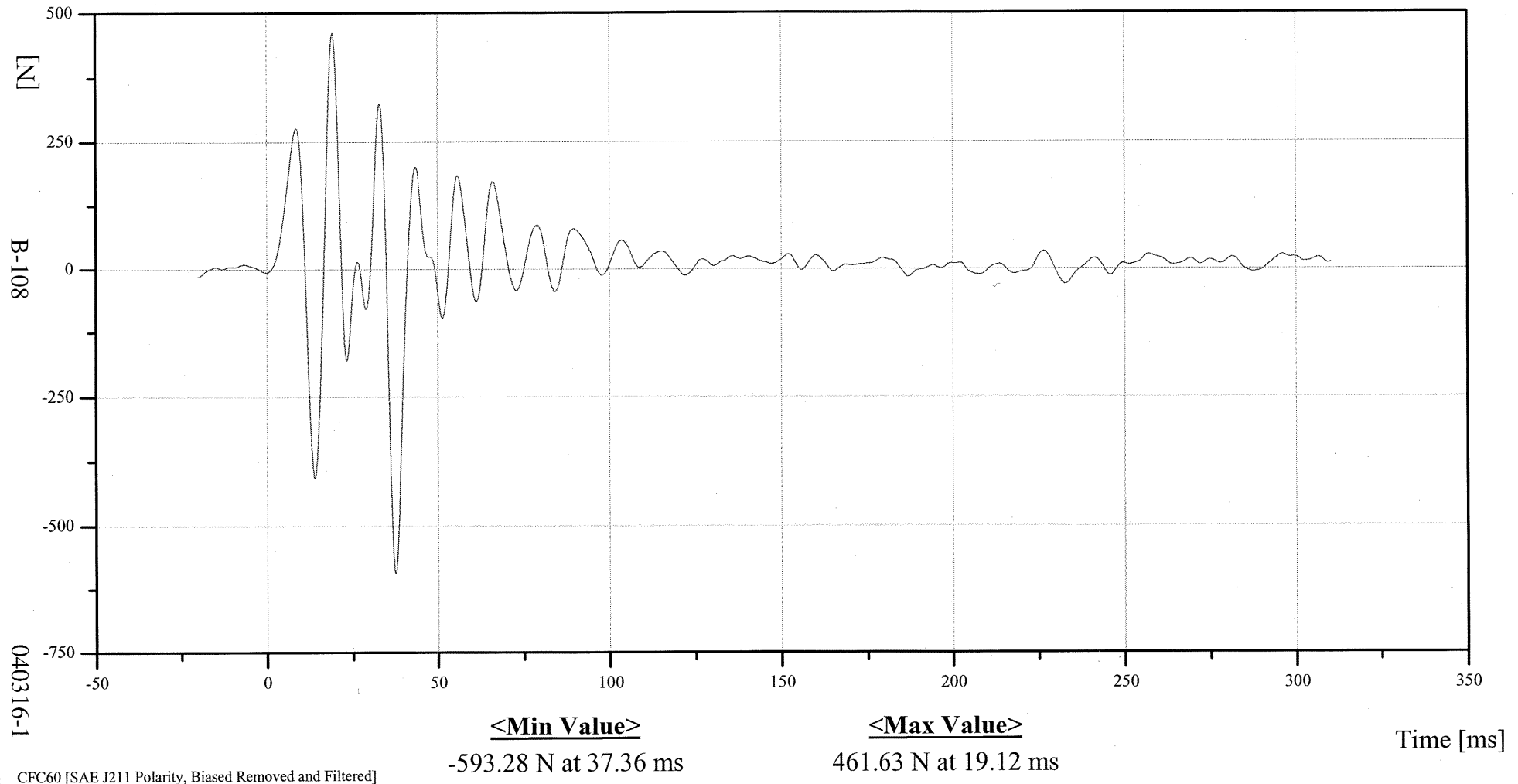
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0703





Transportation Research Center, Inc.

ROW 7 COLUMN 4

Date: 03/16/2004

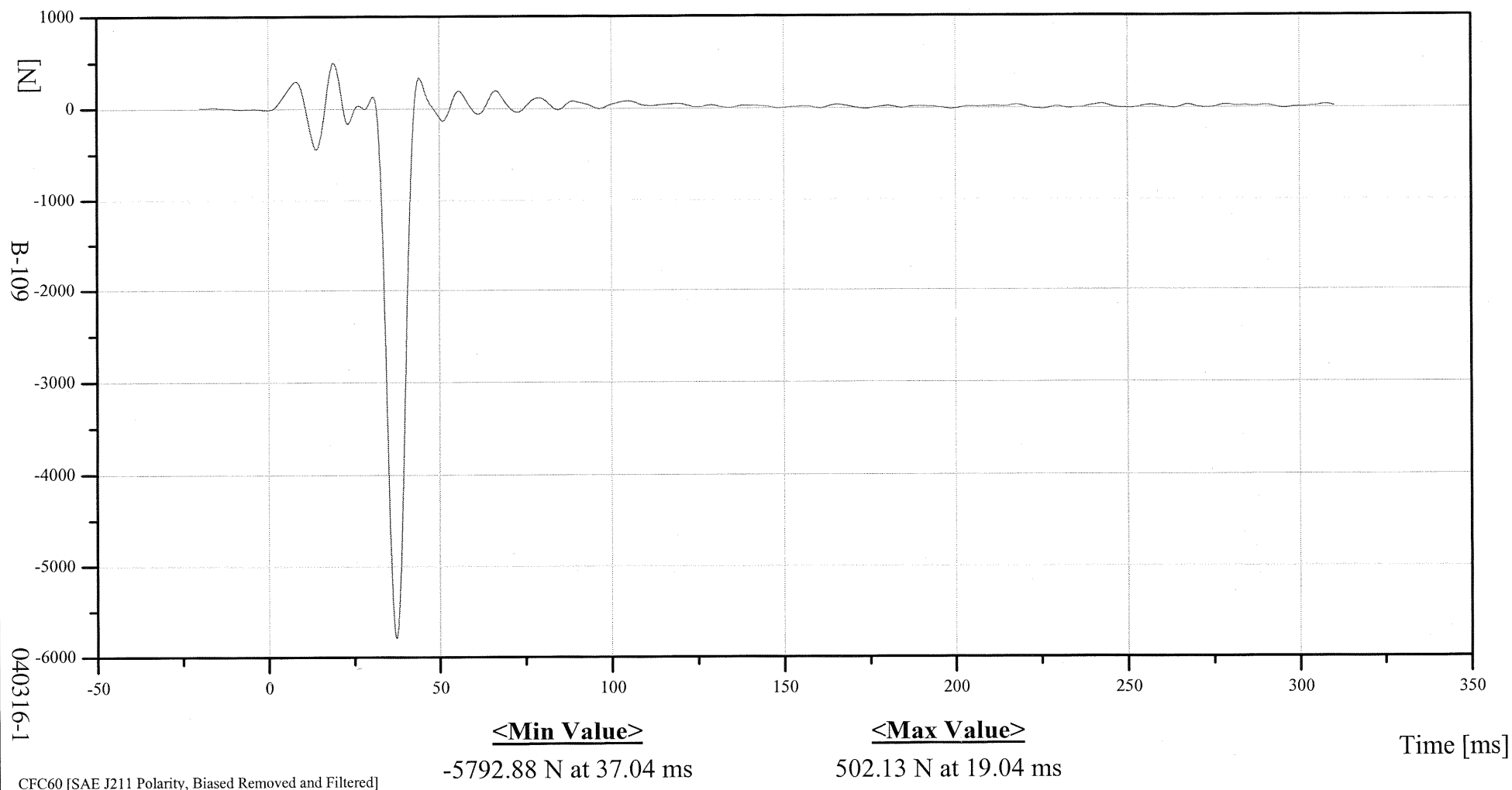
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0704





Transportation Research Center, Inc.

ROW 7 COLUMN 5

Date: 03/16/2004

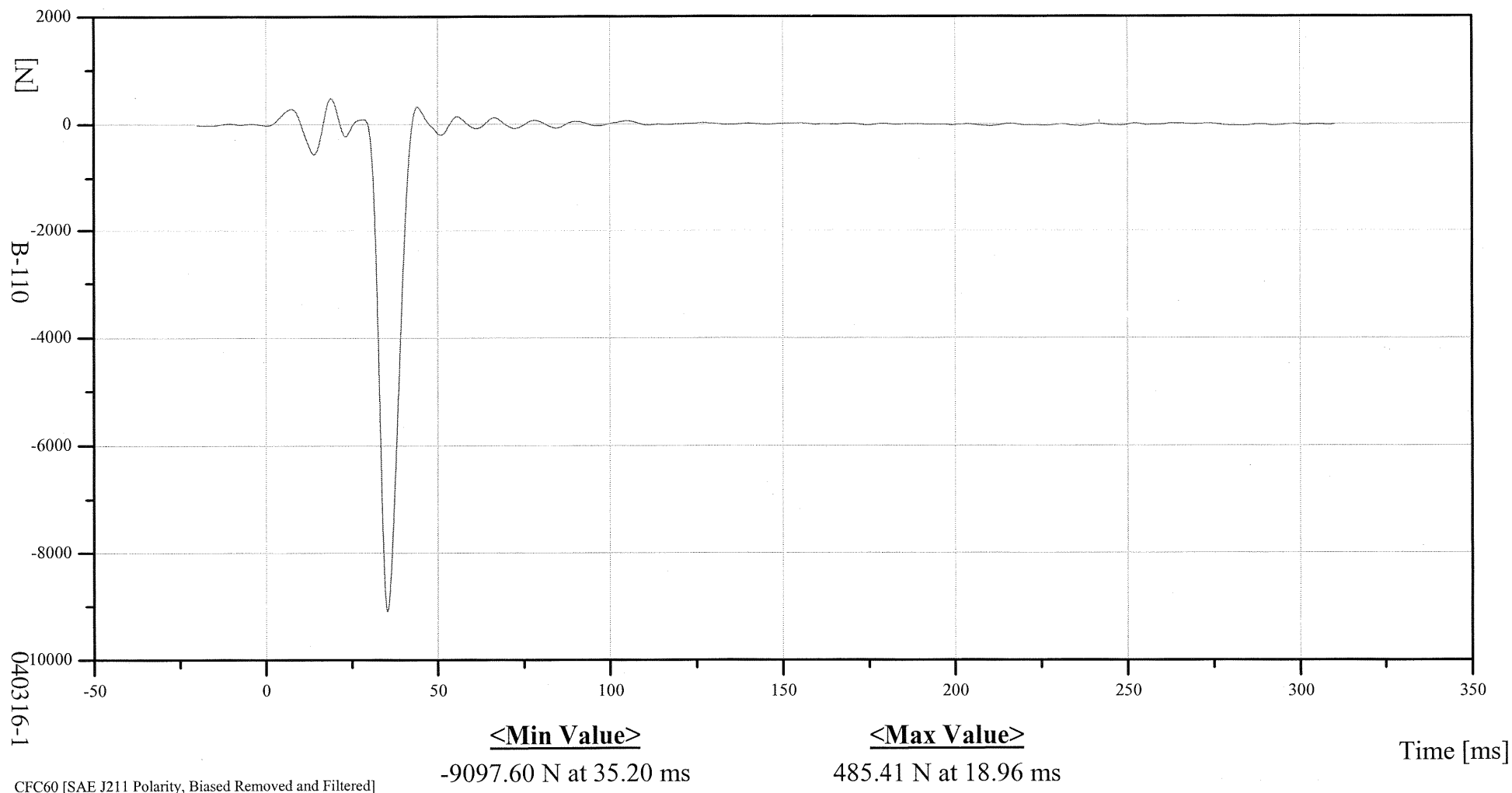
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0705





Transportation Research Center, Inc.

ROW 7 COLUMN 6

Date: 03/16/2004

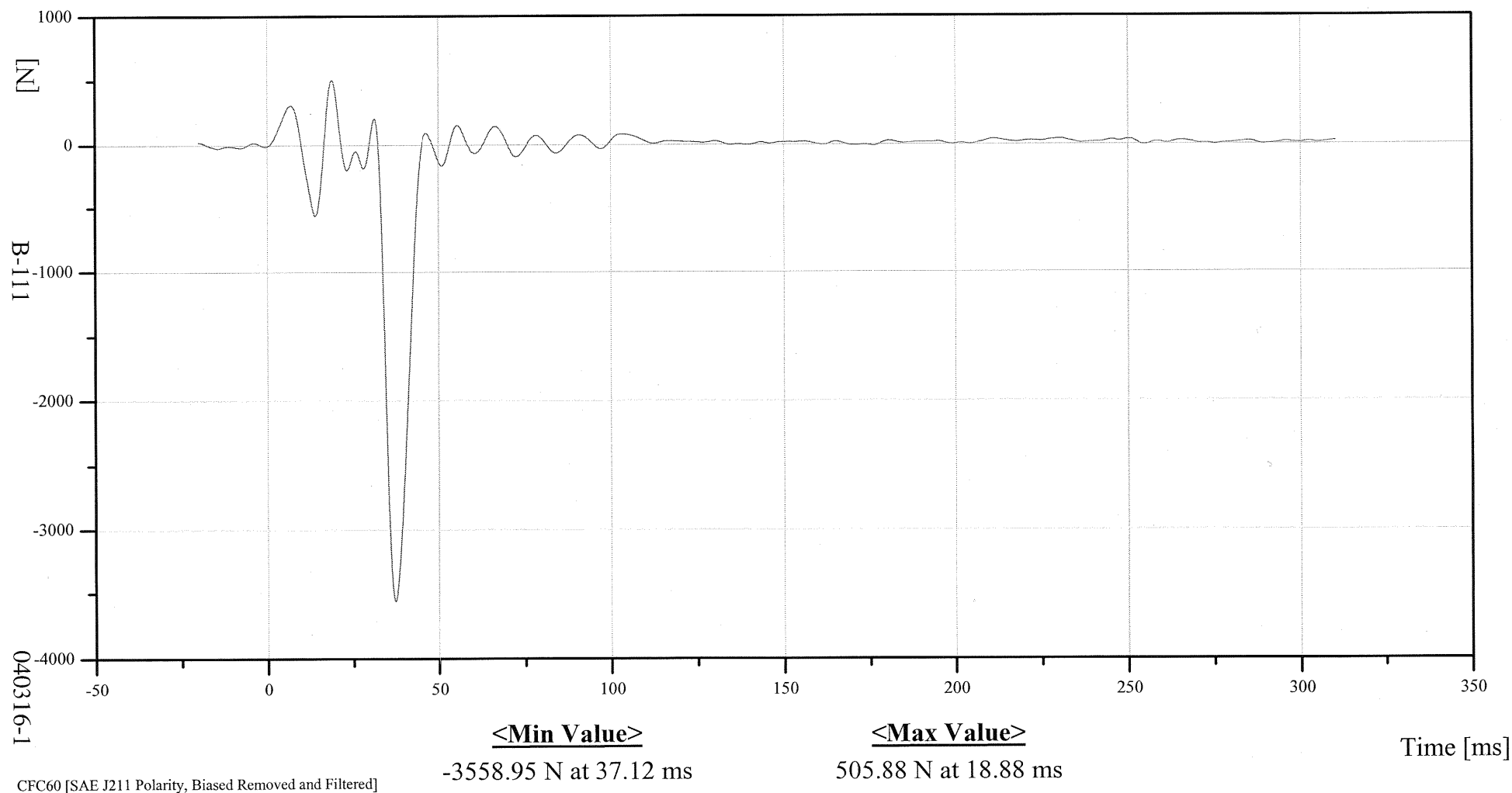
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0706





Transportation Research Center, Inc.

ROW 7 COLUMN 7

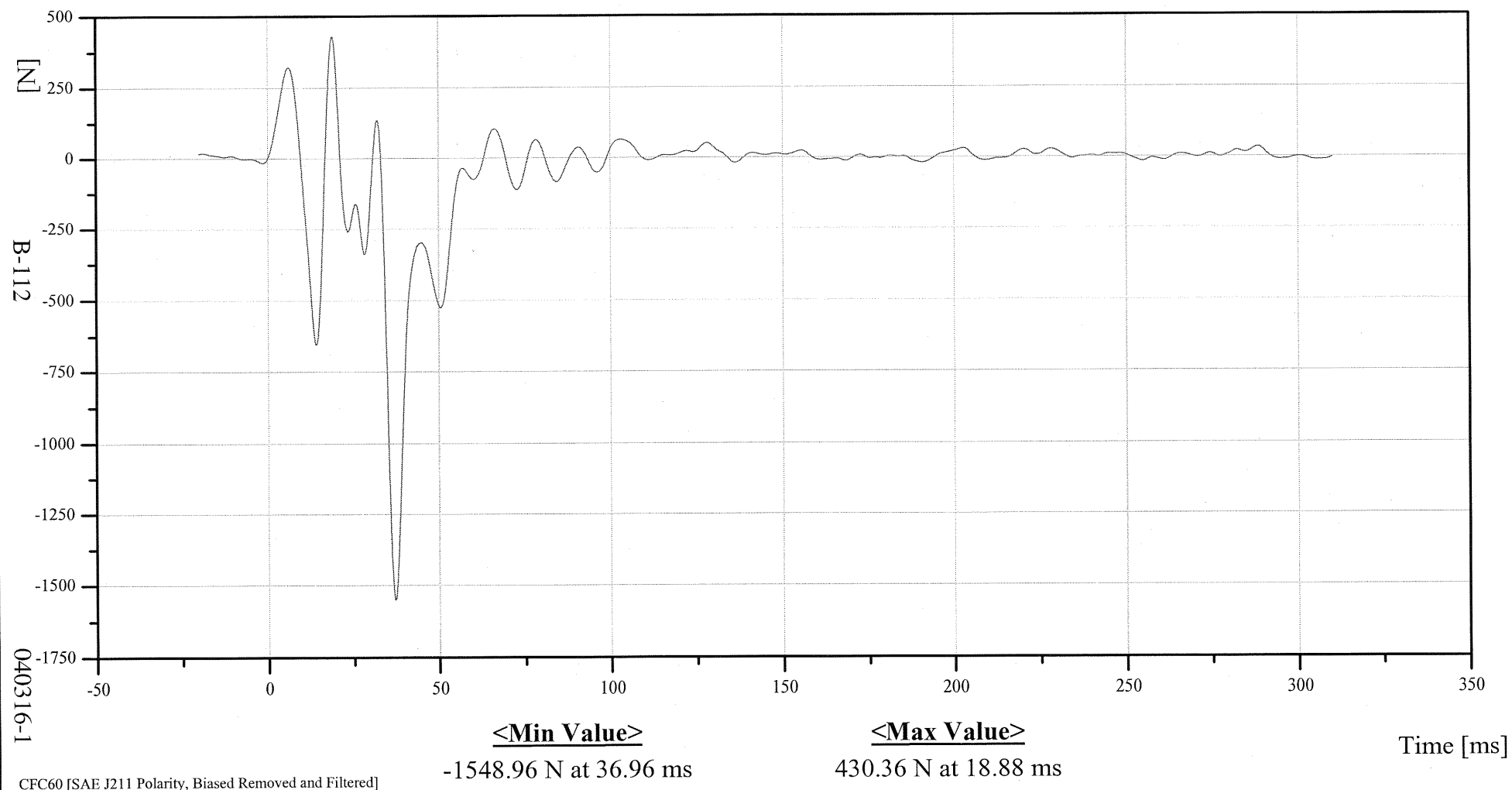
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0707





Transportation Research Center, Inc.

ROW 7 COLUMN 8

Date: 03/16/2004

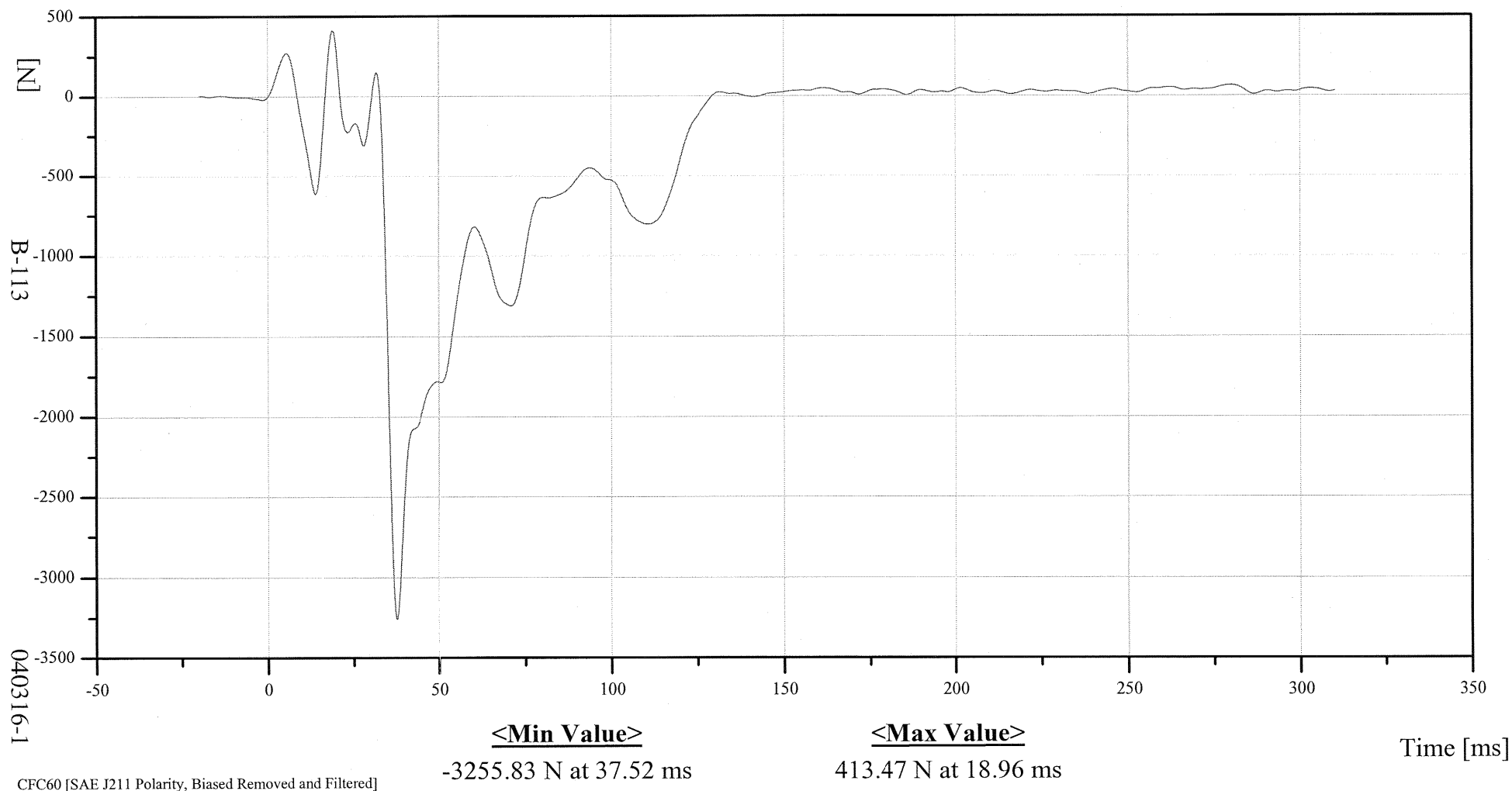
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0708





Transportation Research Center, Inc.

ROW 7 COLUMN 9

Date: 03/16/2004

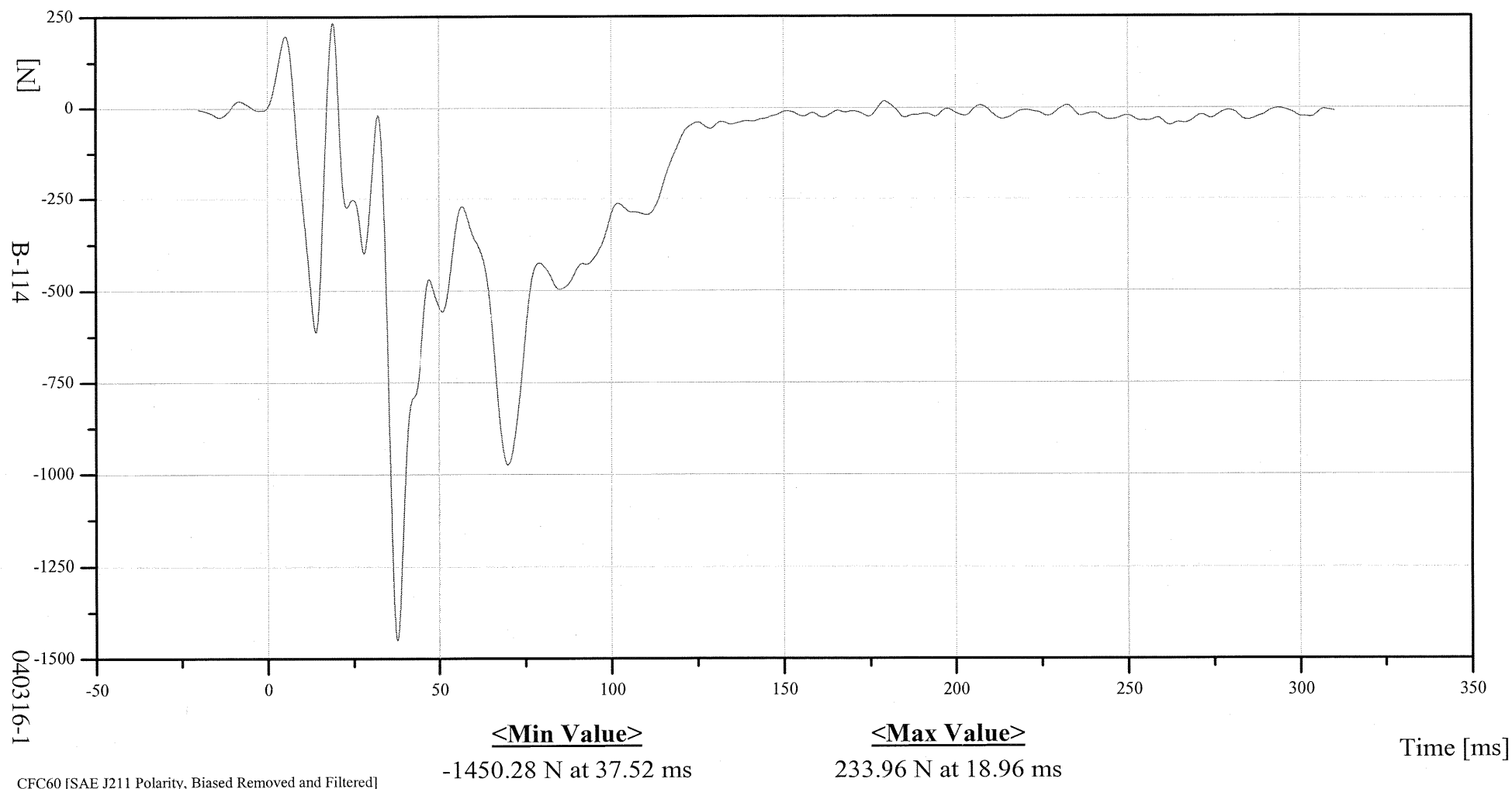
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0709





Transportation Research Center, Inc.

ROW 7 COLUMN 10

Date: 03/16/2004

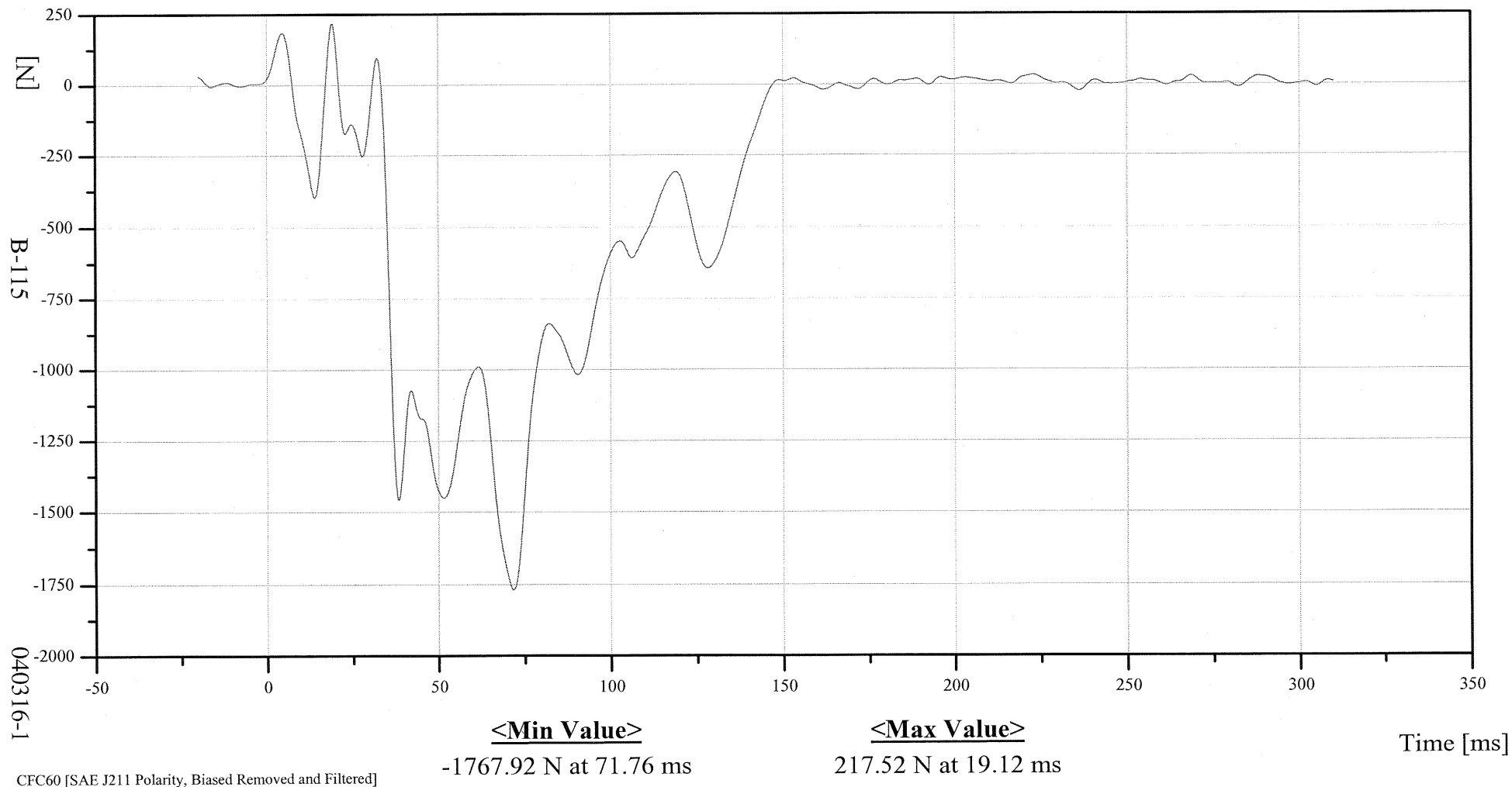
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0710





Transportation Research Center, Inc.

ROW 7 COLUMN 11

Date: 03/16/2004

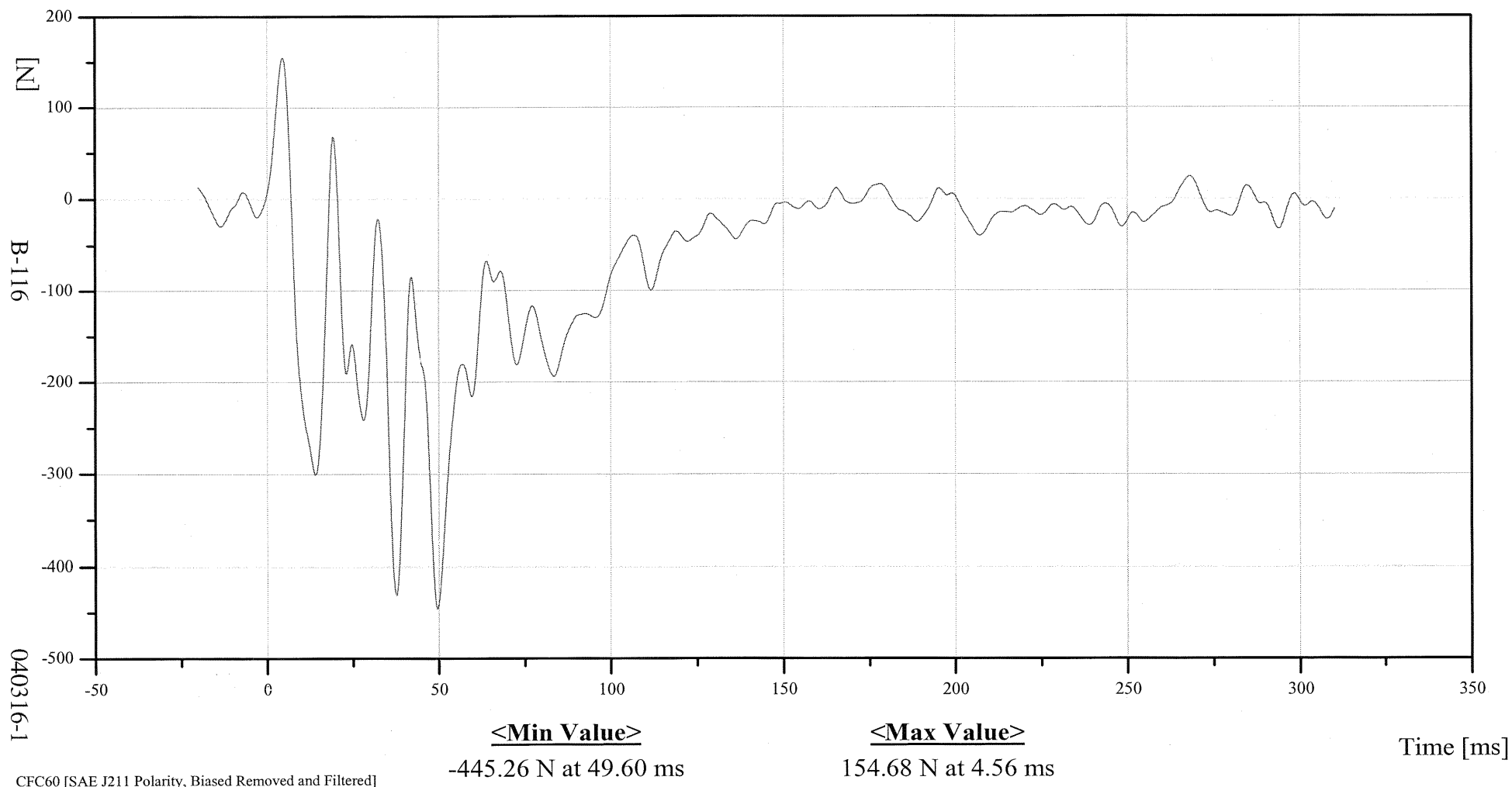
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0711





Transportation Research Center, Inc.

ROW 7 COLUMN 12

Date: 03/16/2004

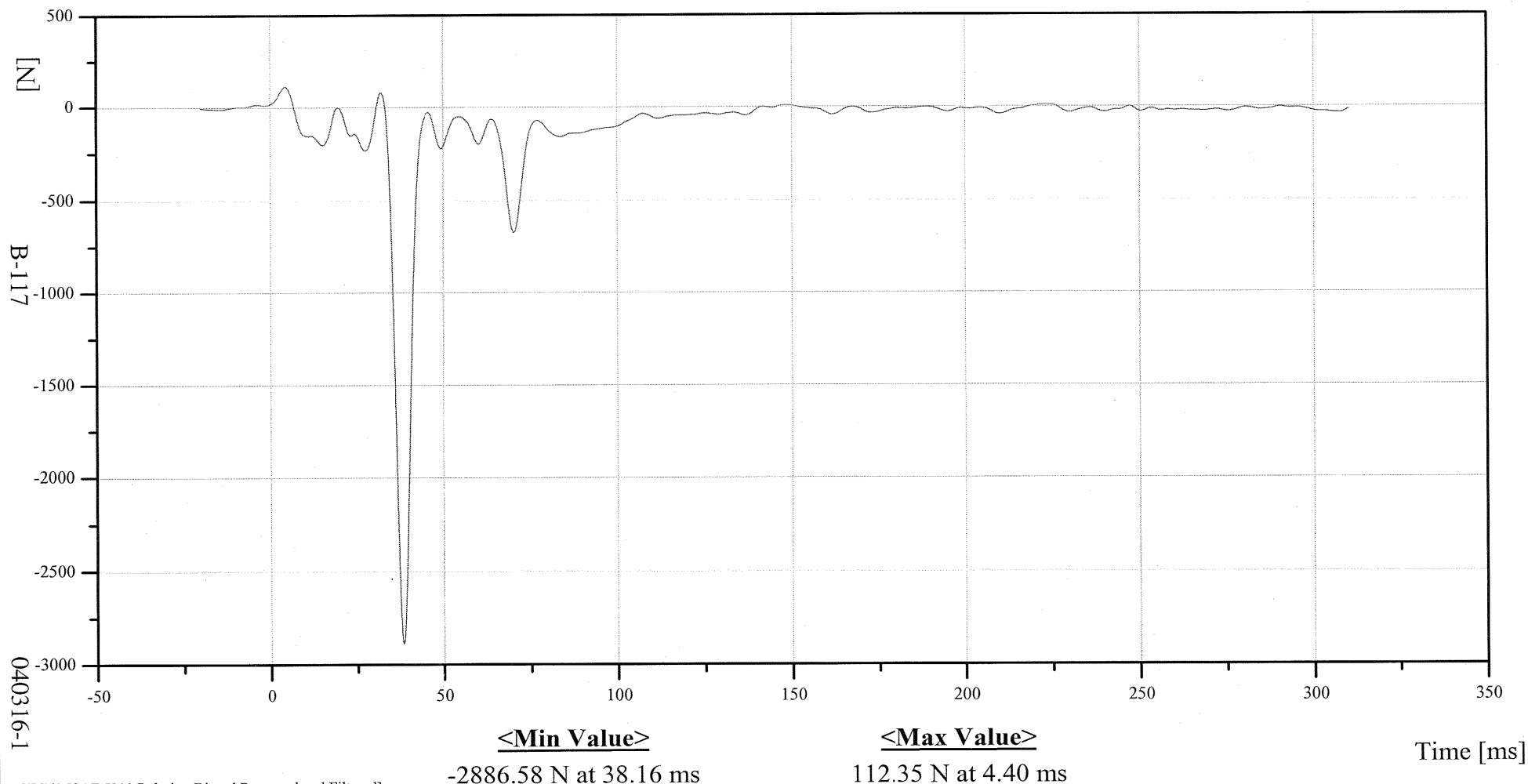
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0712



<Min Value>

-2886.58 N at 38.16 ms

<Max Value>

112.35 N at 4.40 ms

Time [ms]

CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 7 COLUMN 13

Date: 03/16/2004

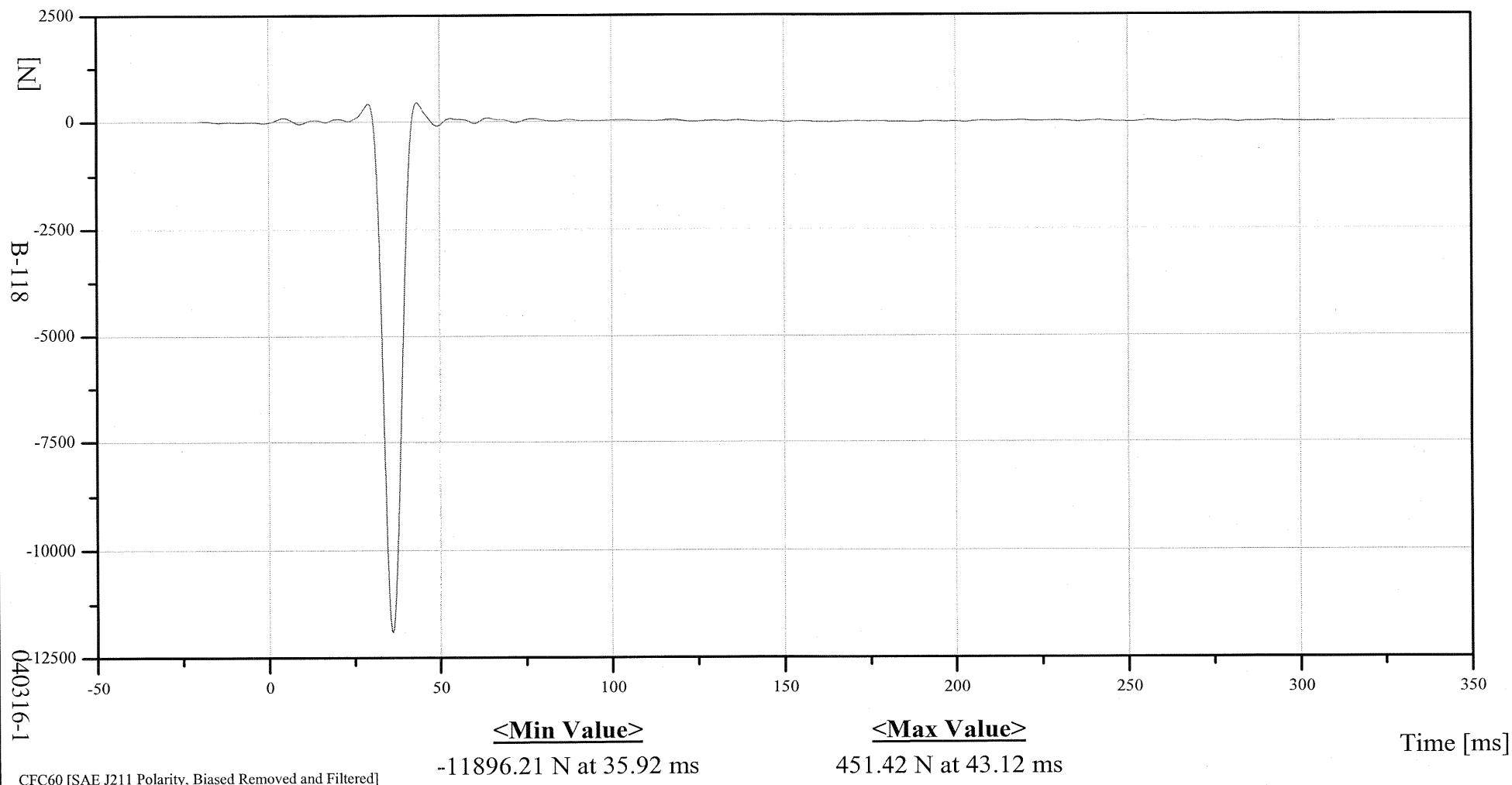
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0713





Transportation Research Center, Inc.

ROW 7 COLUMN 14

Date: 03/16/2004

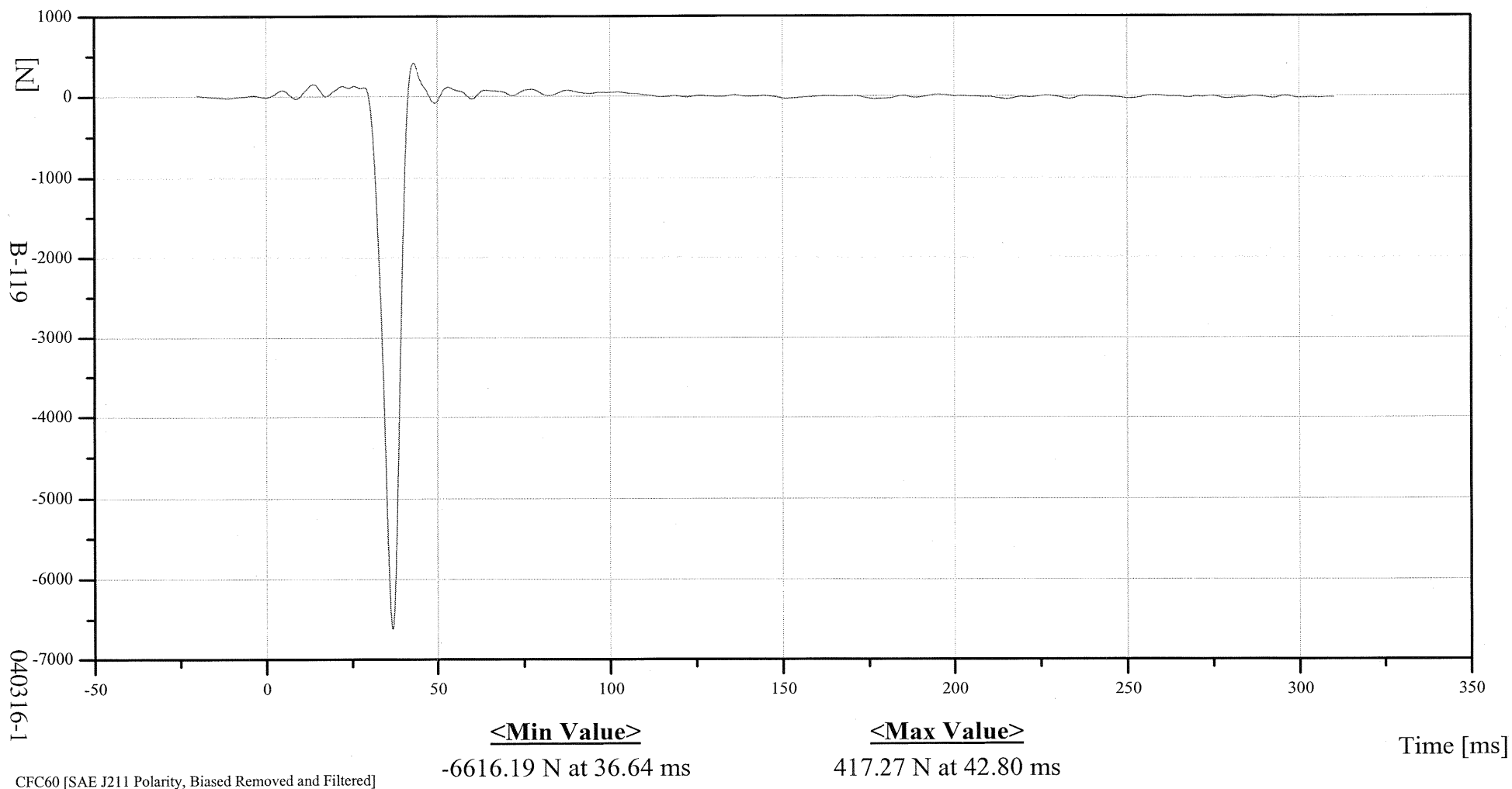
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0714





Transportation Research Center, Inc.

ROW 7 COLUMN 15

Date: 03/16/2004

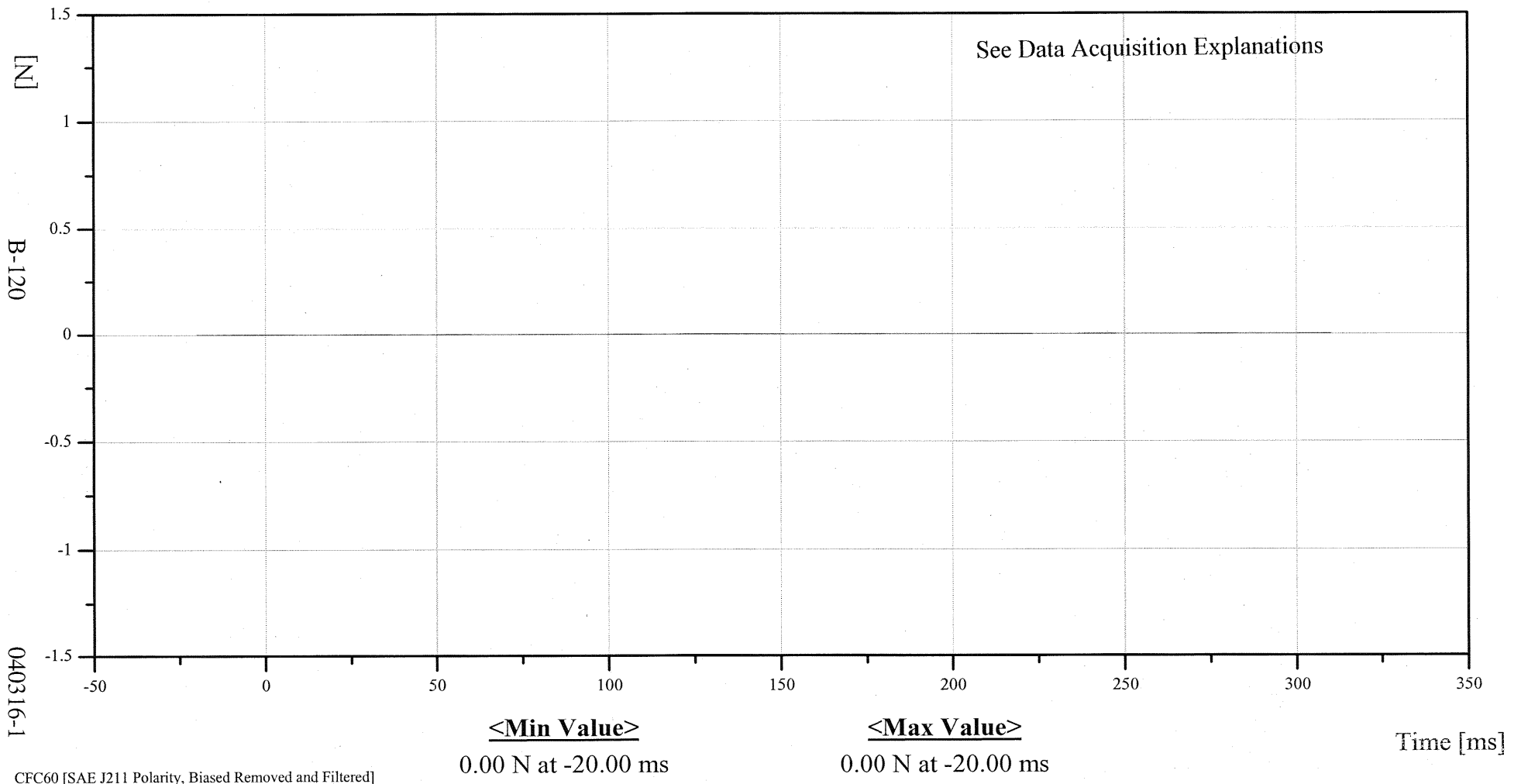
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0715





Transportation Research Center, Inc.

ROW 7 COLUMN 16

Date: 03/16/2004

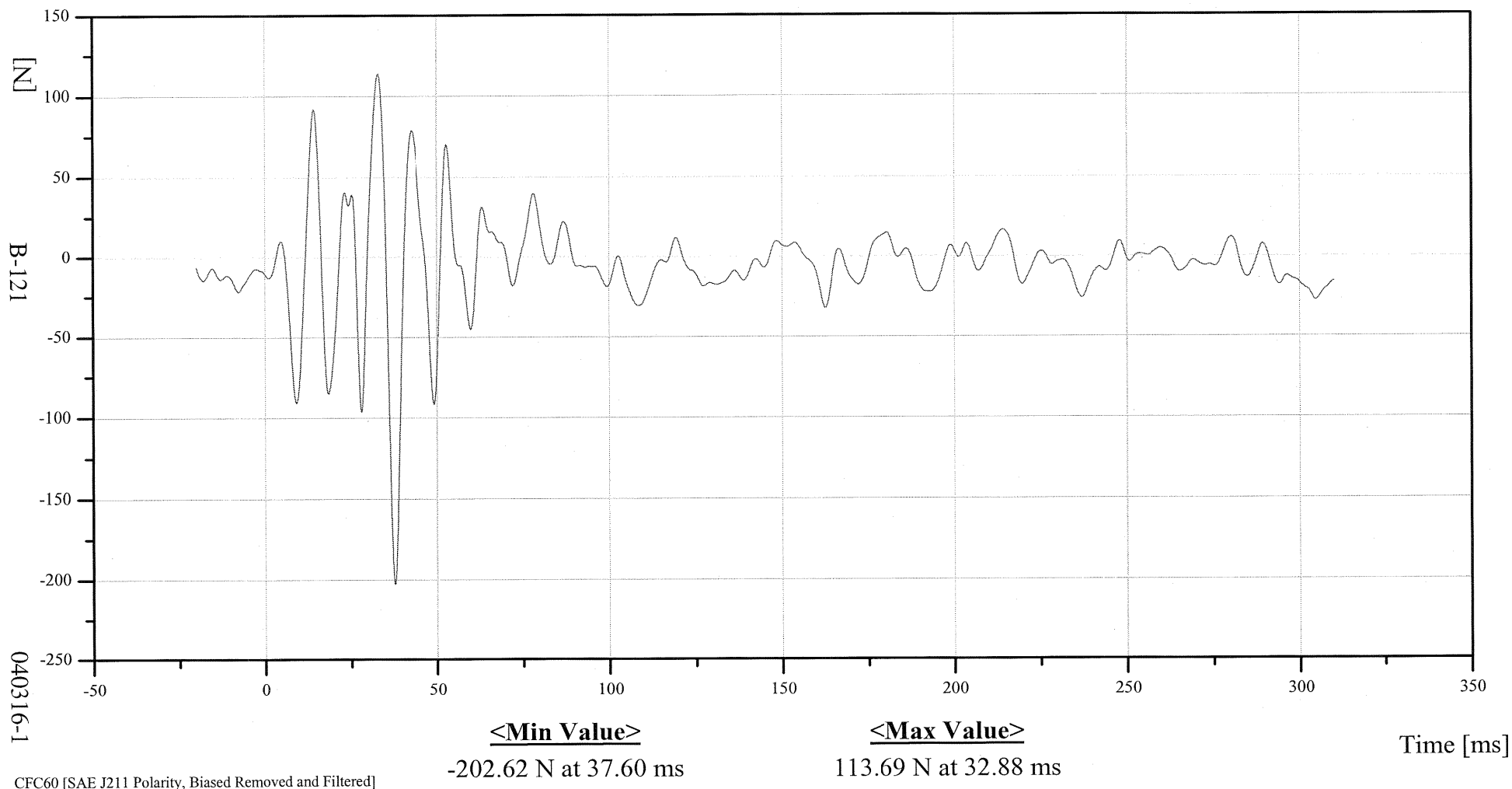
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0716





Transportation Research Center, Inc.

ROW 8 COLUMN 1

Date: 03/16/2004

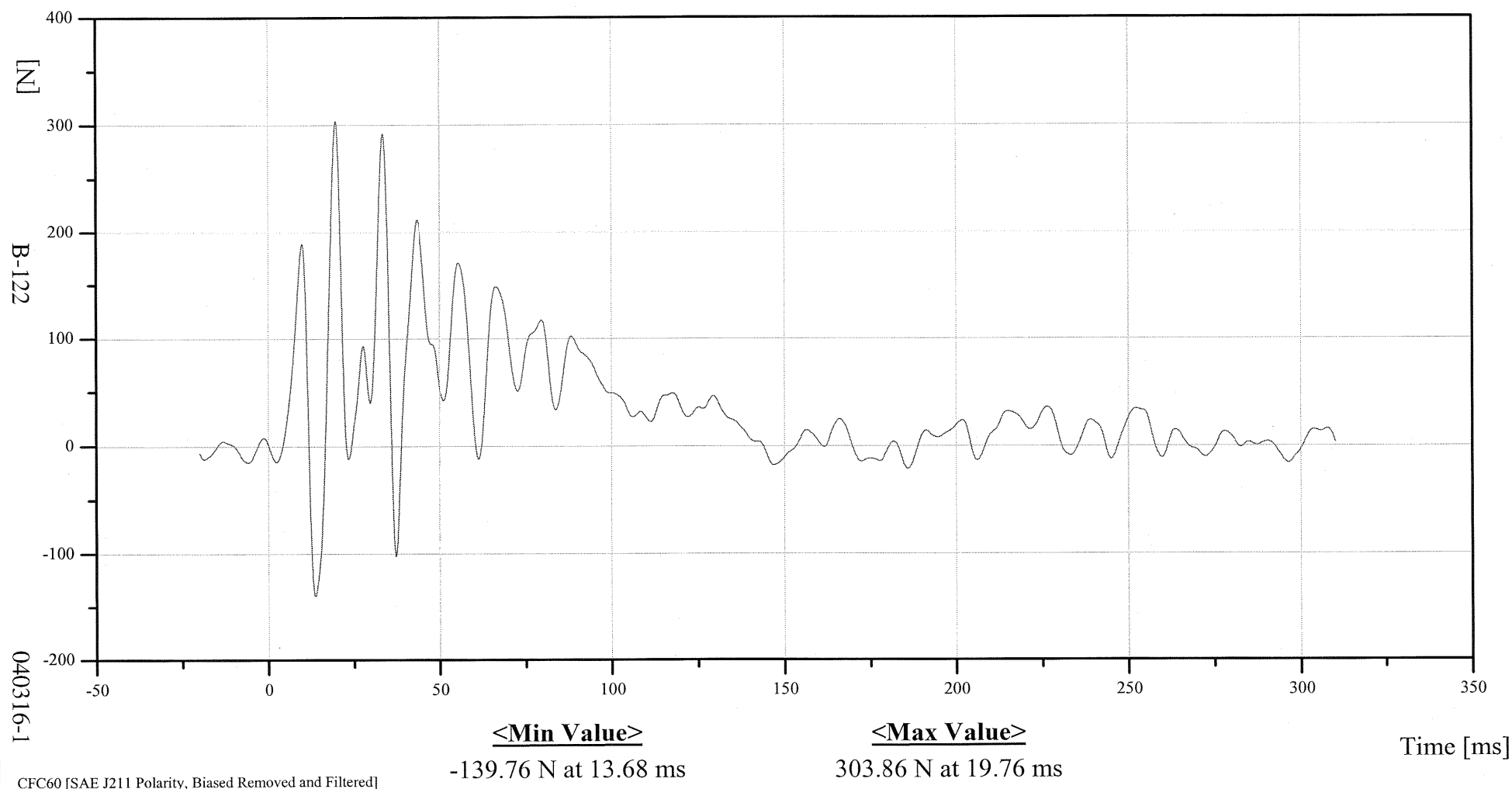
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0801





Transportation Research Center, Inc.

ROW 8 COLUMN 2

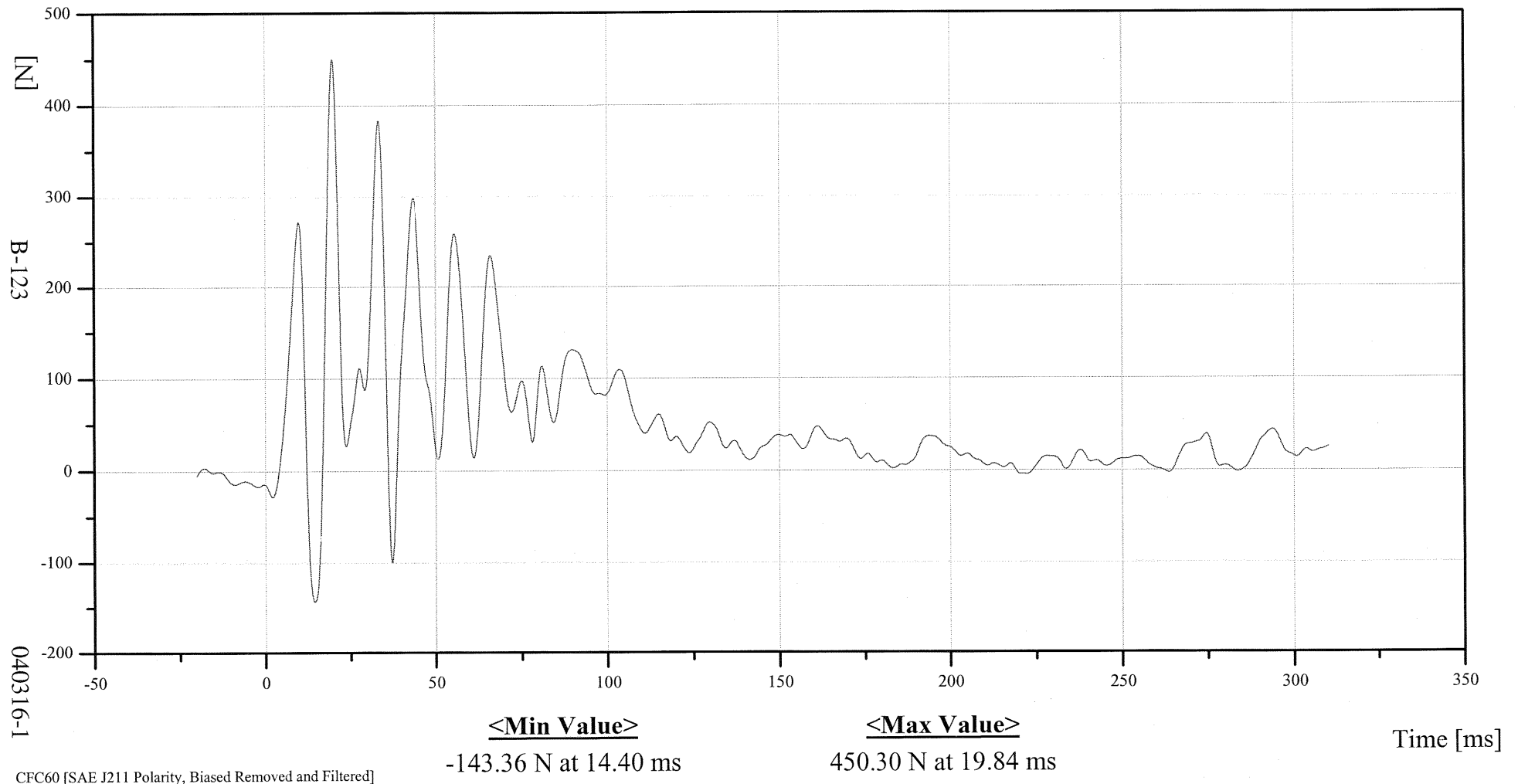
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0802





Transportation Research Center, Inc.

ROW 8 COLUMN 3

Date: 03/16/2004

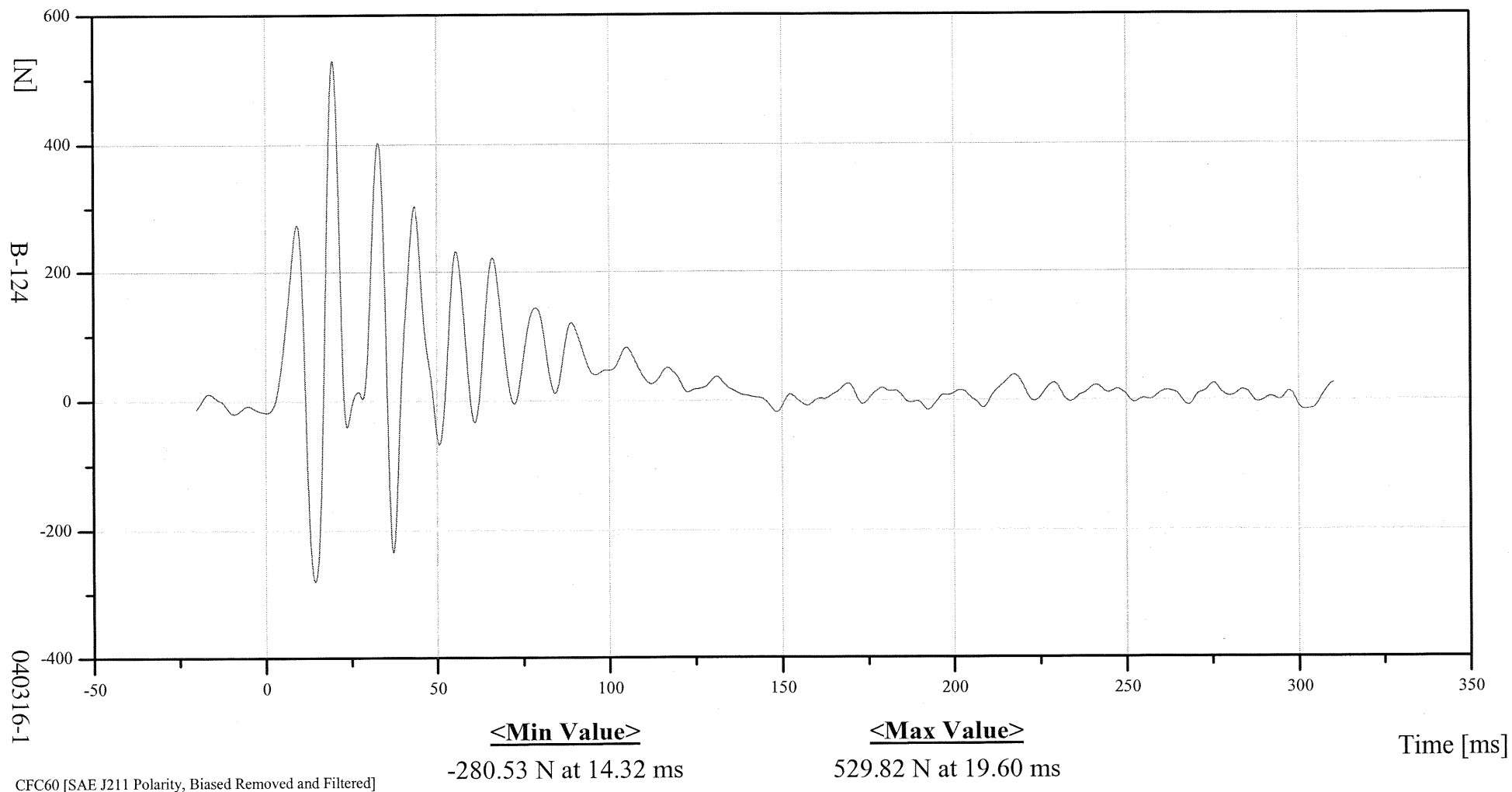
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0803





Transportation Research Center, Inc.

ROW 8 COLUMN 4

Date: 03/16/2004

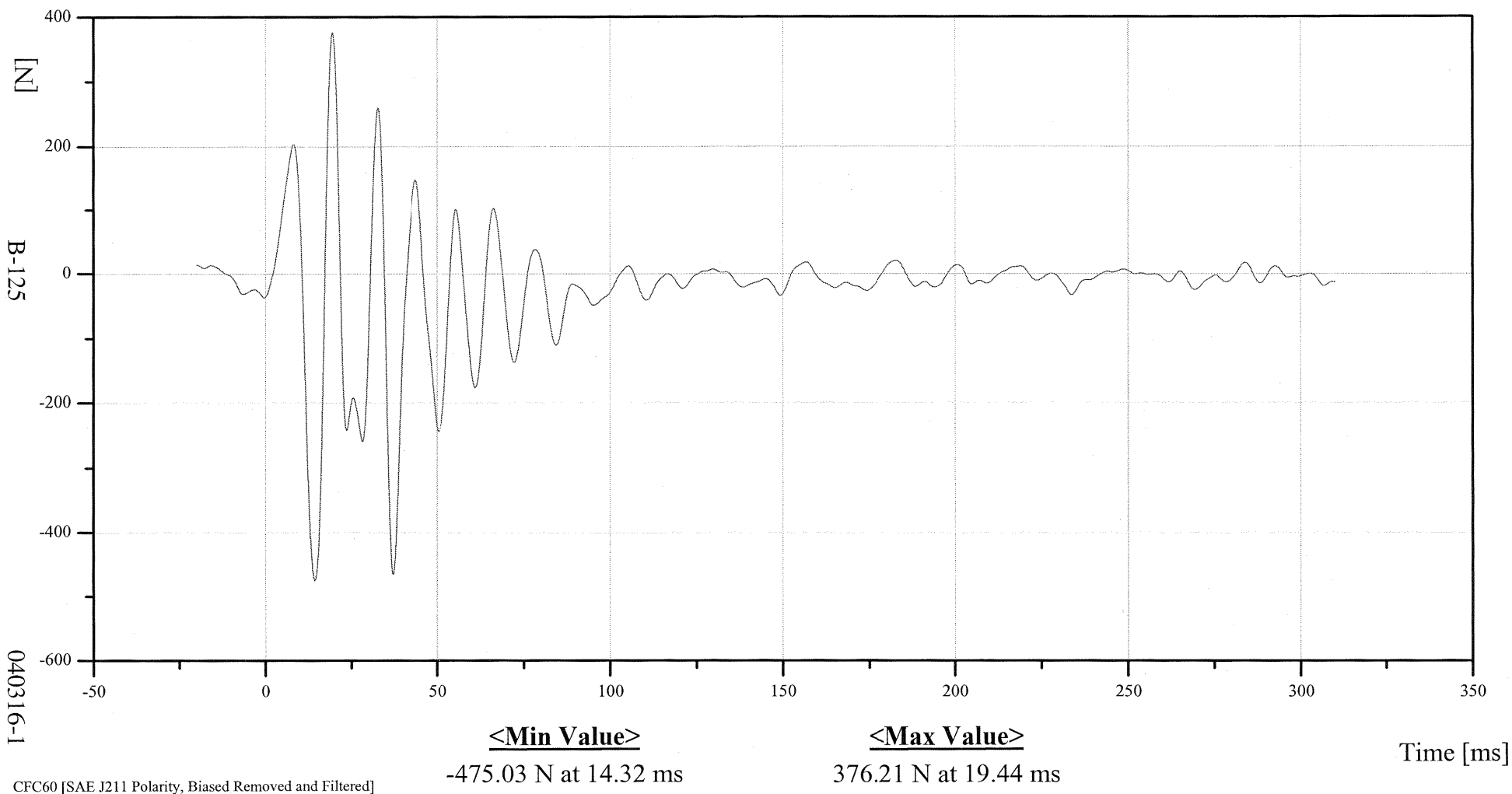
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0804





Transportation Research Center, Inc.

ROW 8 COLUMN 5

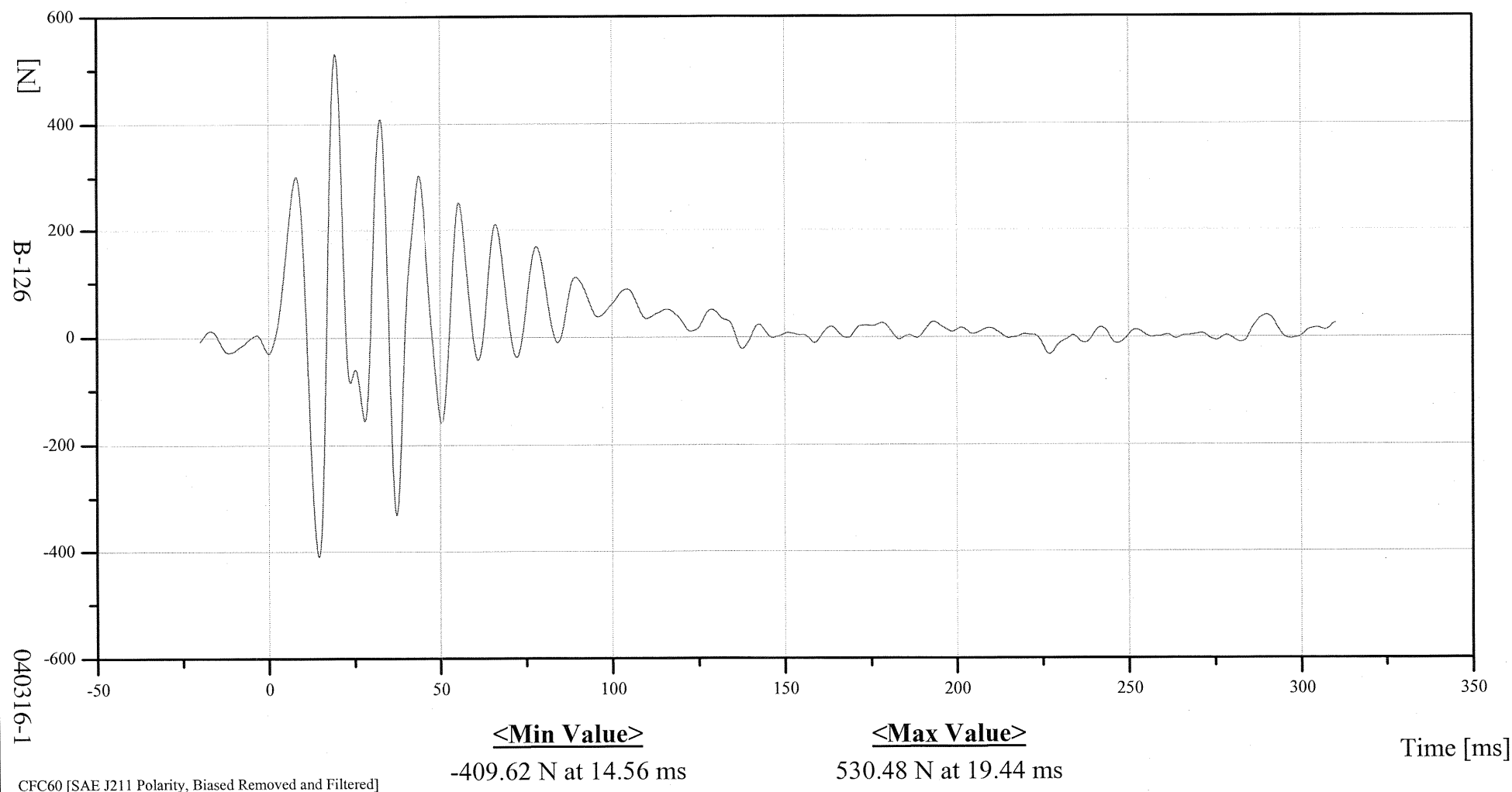
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0805





Transportation Research Center, Inc.

ROW 8 COLUMN 6

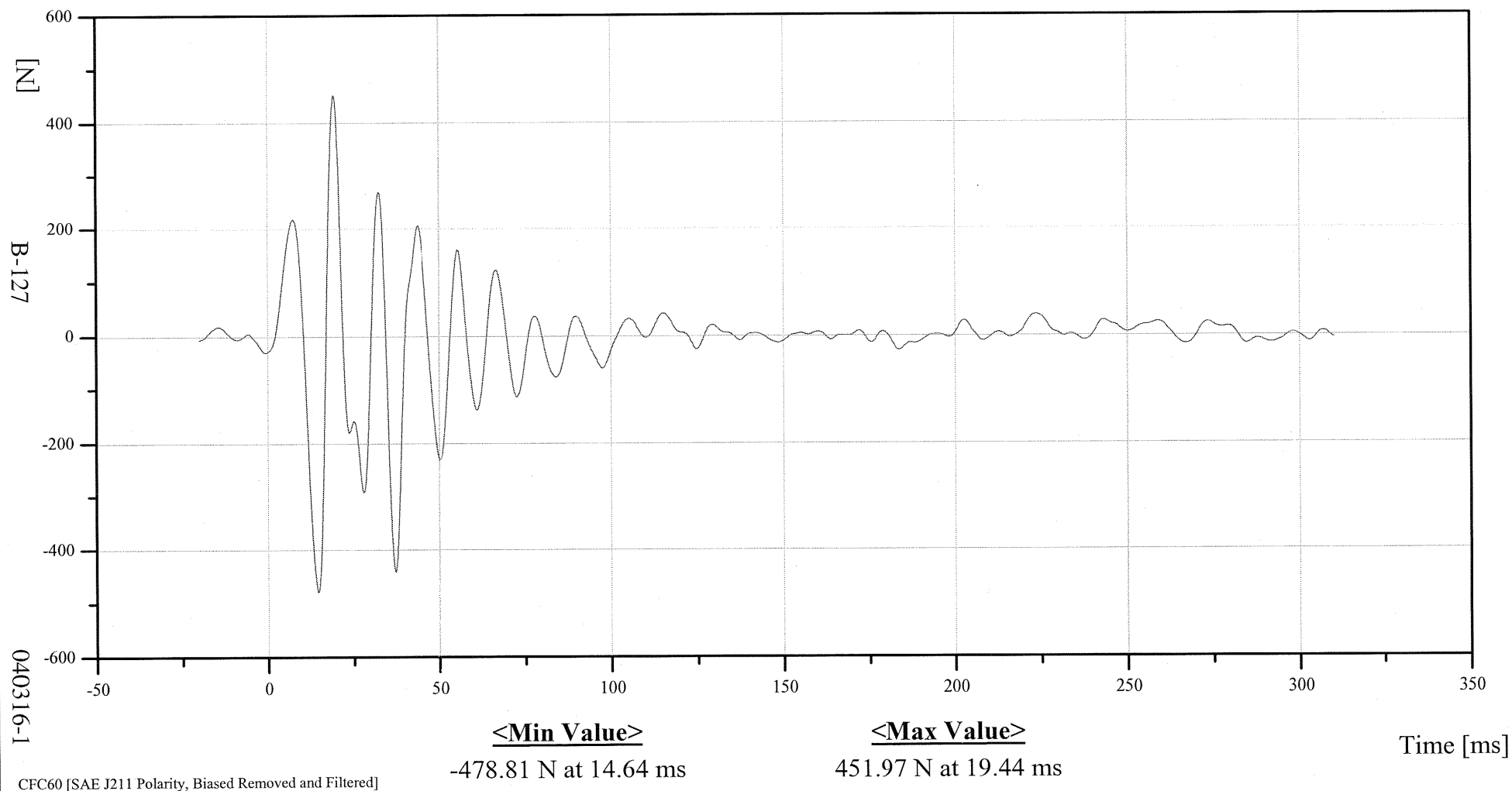
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0806





Transportation Research Center, Inc.

ROW 8 COLUMN 7

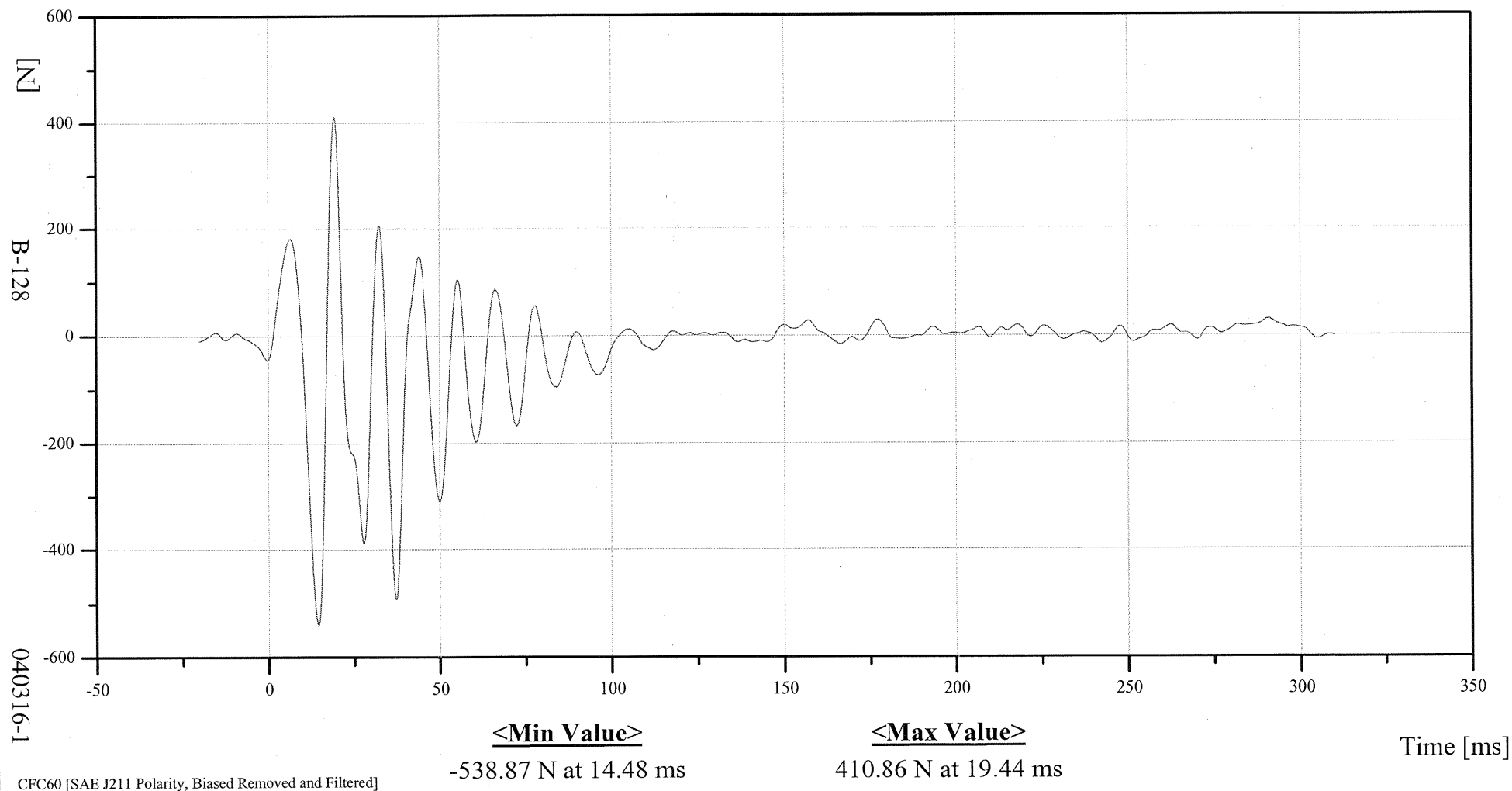
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0807





Transportation Research Center, Inc.

ROW 8 COLUMN 8

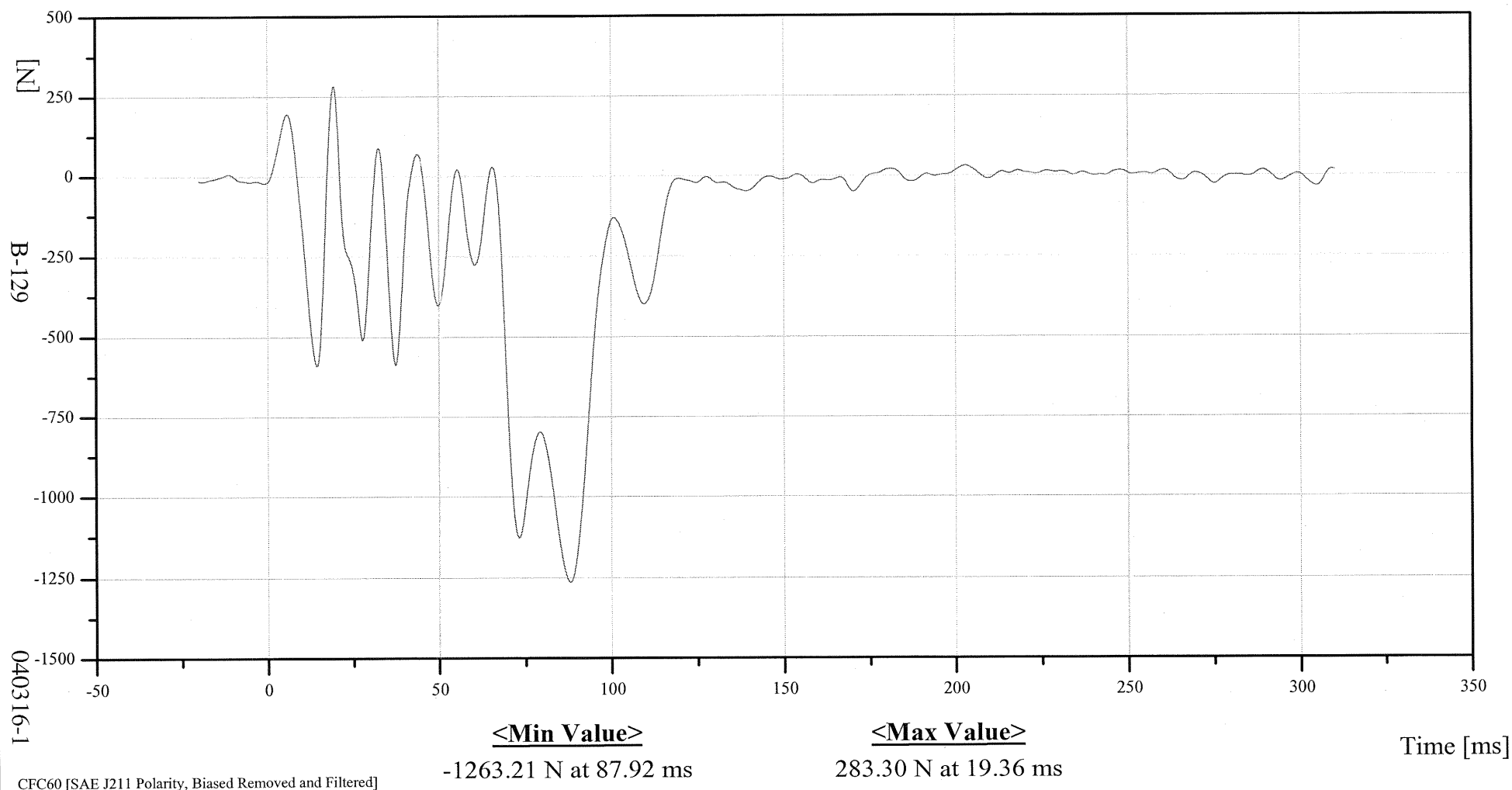
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0808





Transportation Research Center, Inc.

ROW 8 COLUMN 9

Date: 03/16/2004

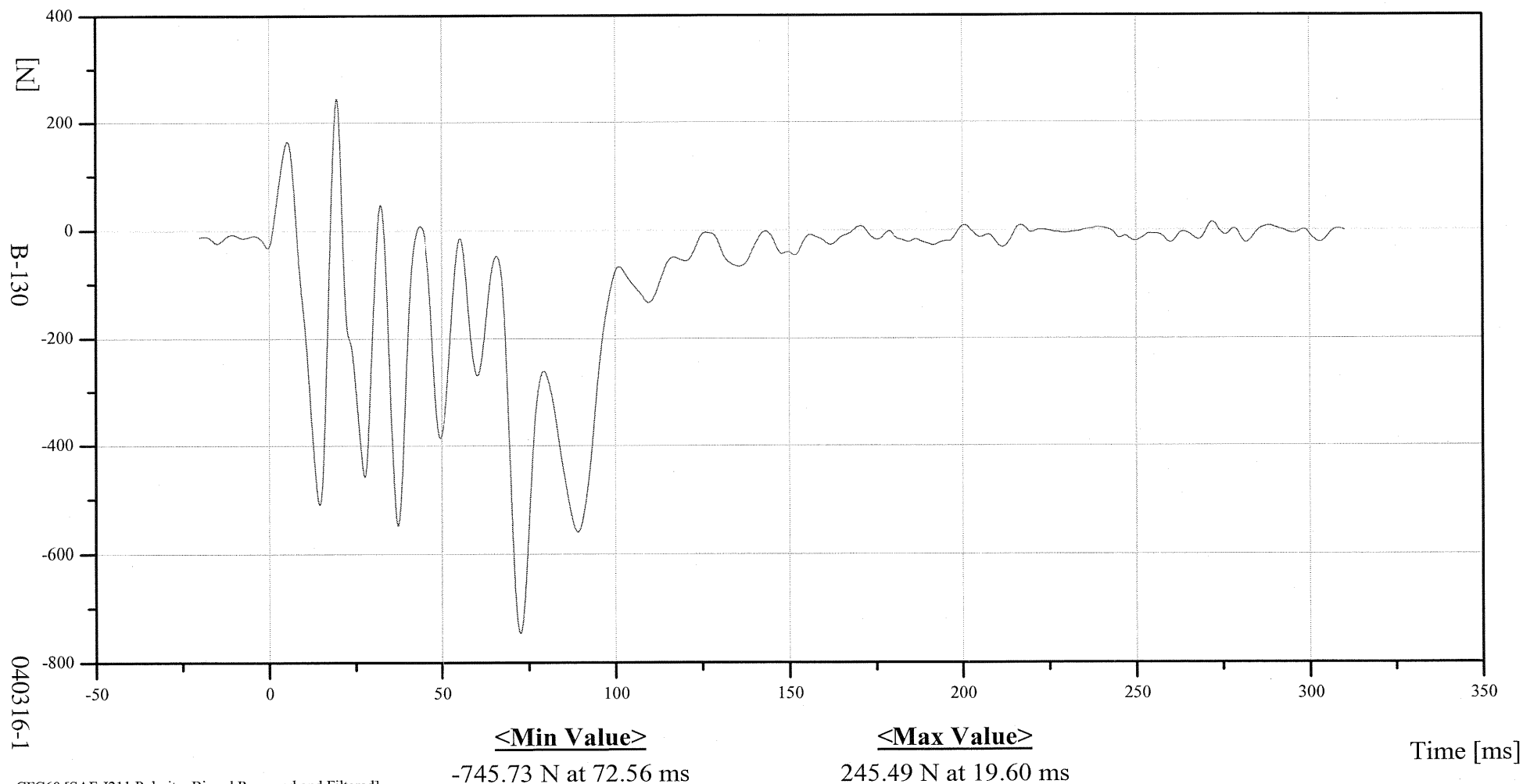
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0809





Transportation Research Center, Inc.

ROW 8 COLUMN 10

Date: 03/16/2004

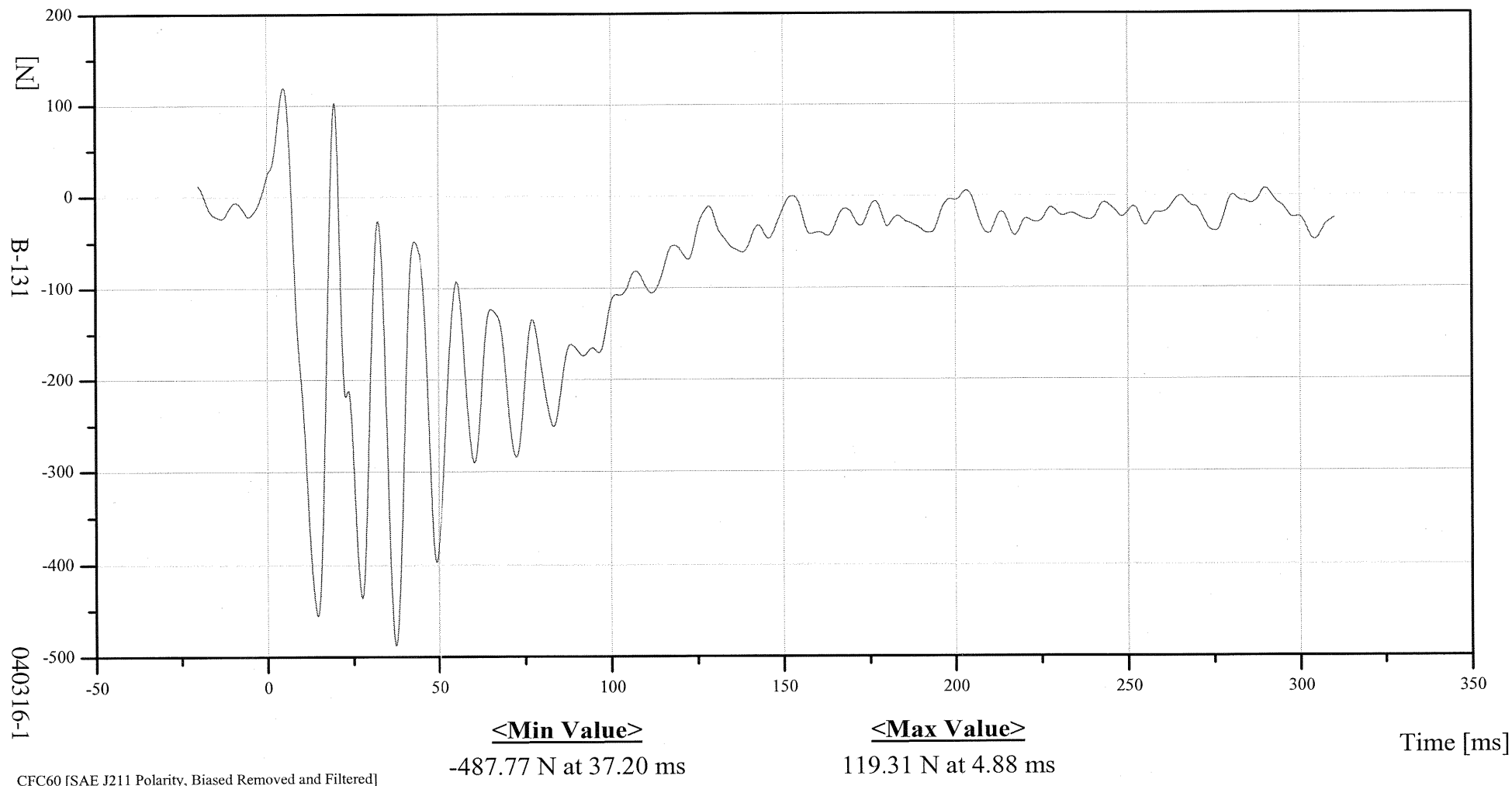
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0810





Transportation Research Center, Inc.

ROW 8 COLUMN 11

Date: 03/16/2004

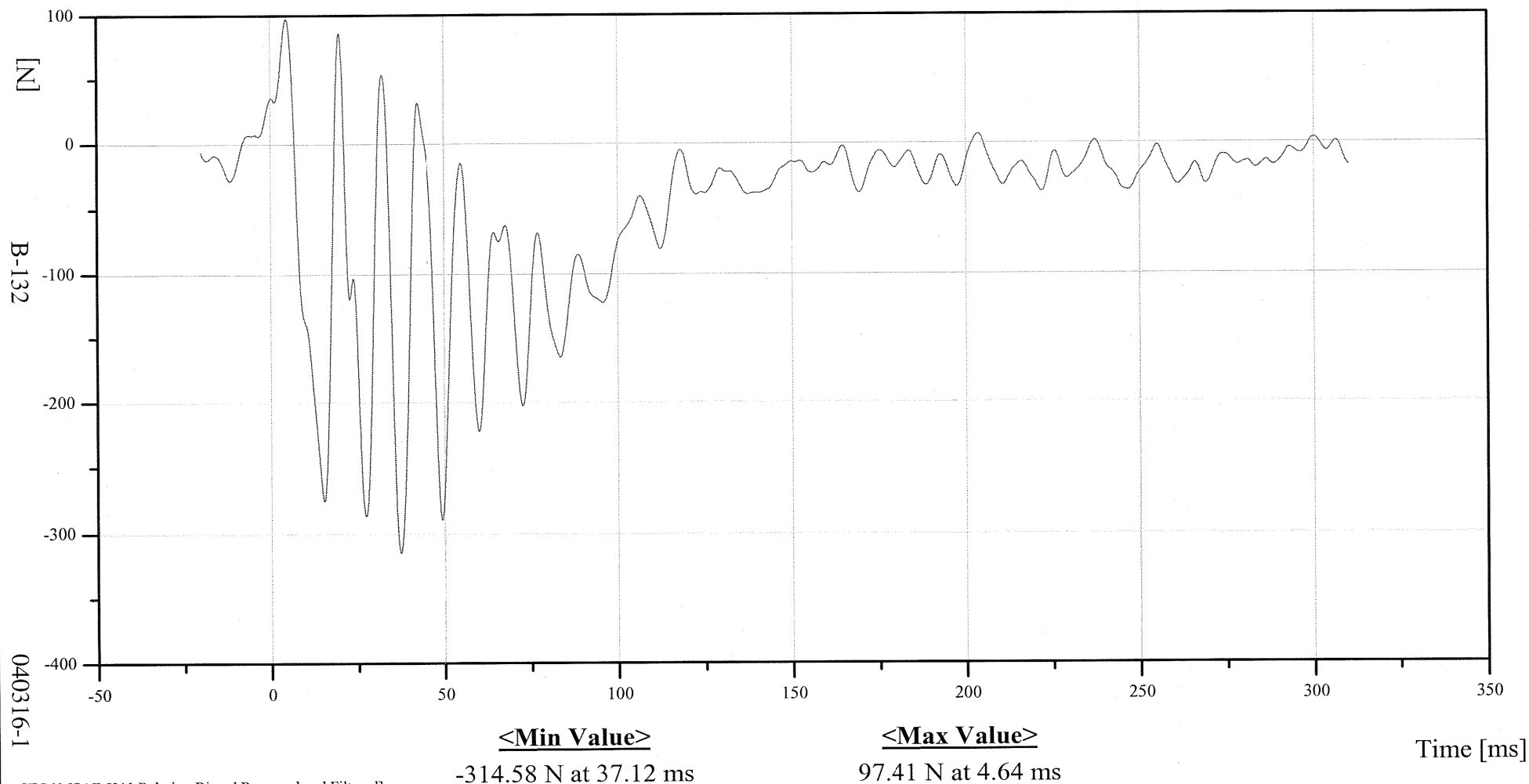
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0811



CFC60 [SAE J211 Polarity, Biased Removed and Filtered]



Transportation Research Center, Inc.

ROW 8 COLUMN 12

Date: 03/16/2004

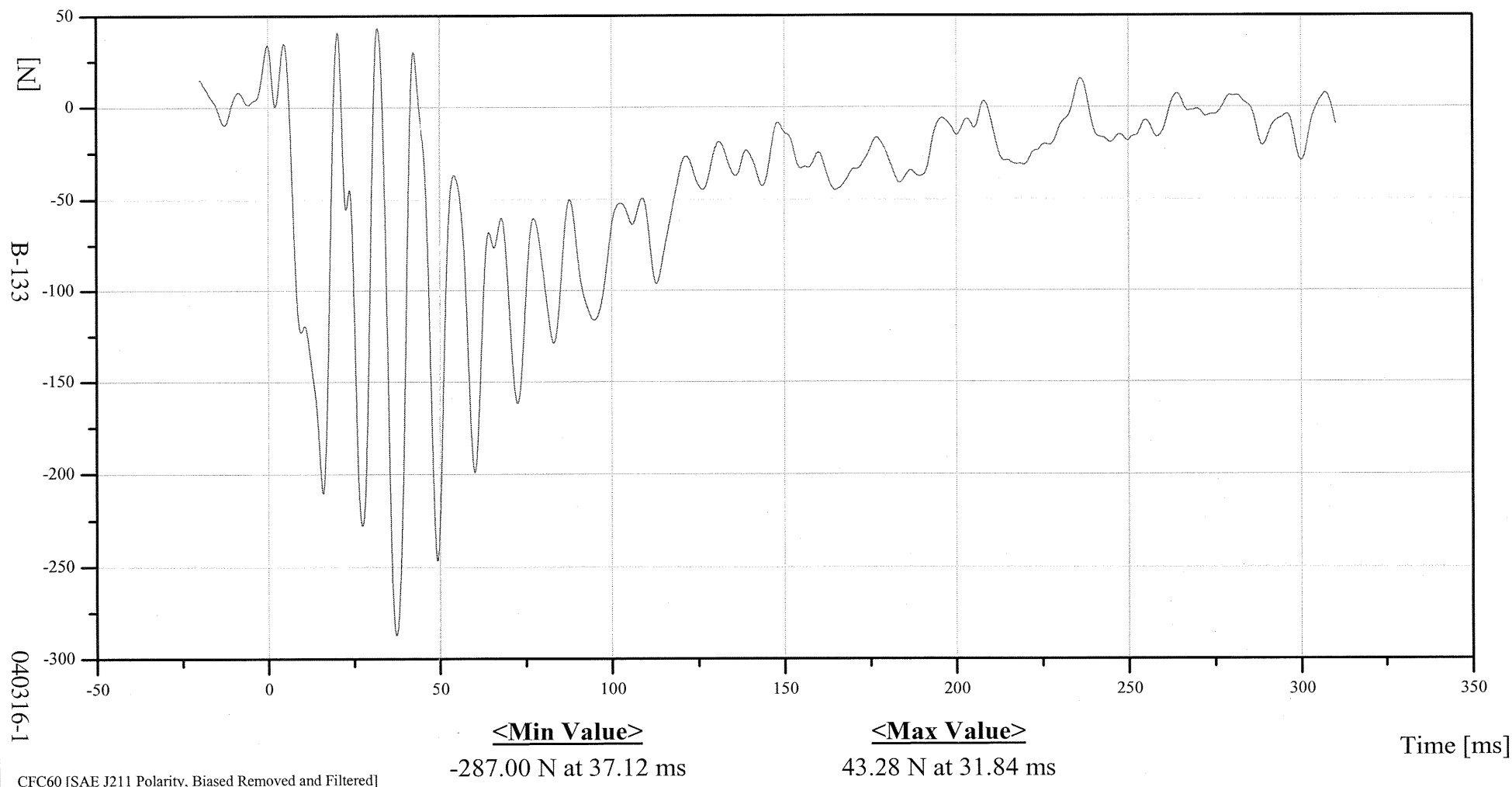
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0812





Transportation Research Center, Inc.

ROW 8 COLUMN 13

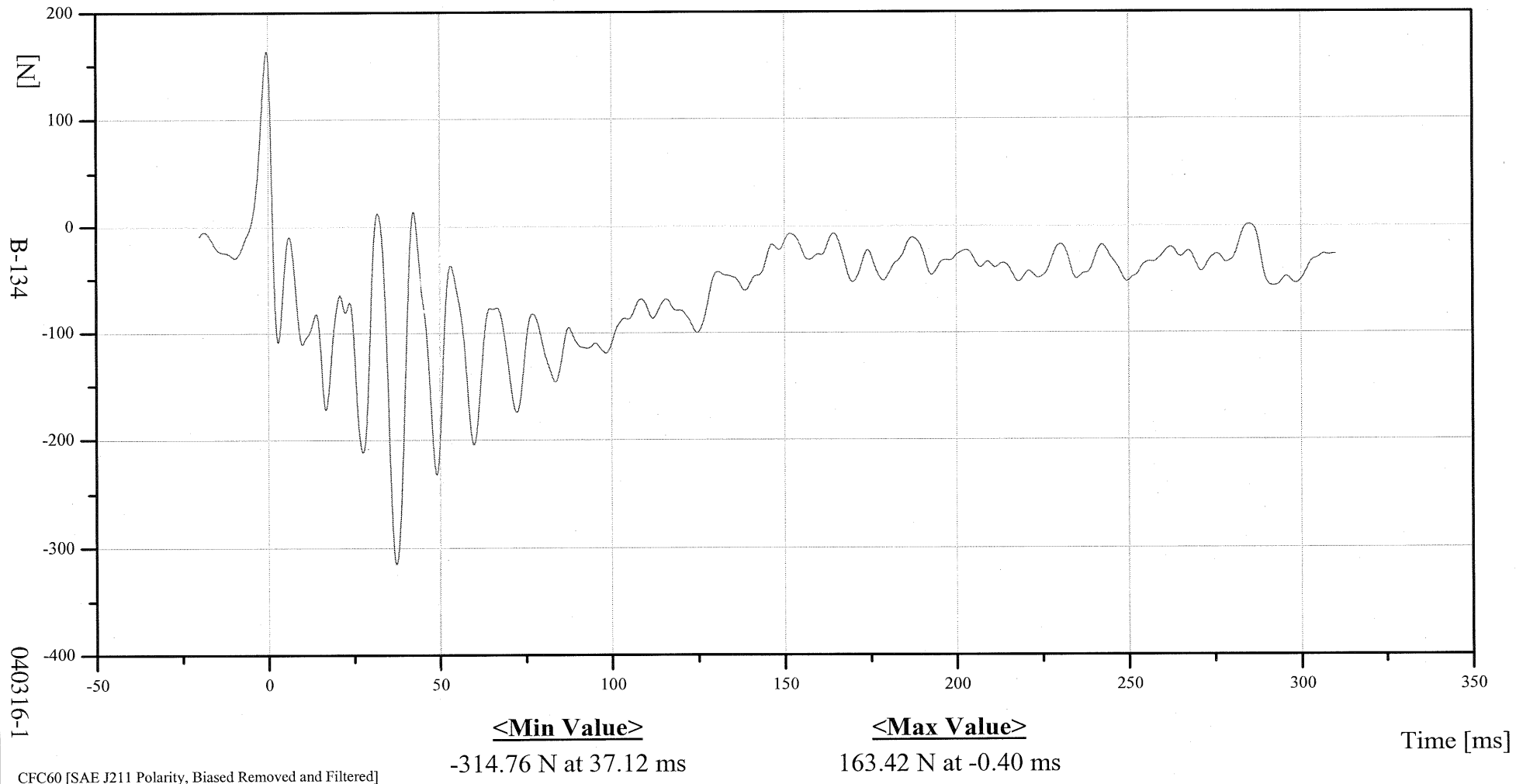
Date: 03/16/2004
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0813





Transportation Research Center, Inc.

ROW 8 COLUMN 14

Date: 03/16/2004

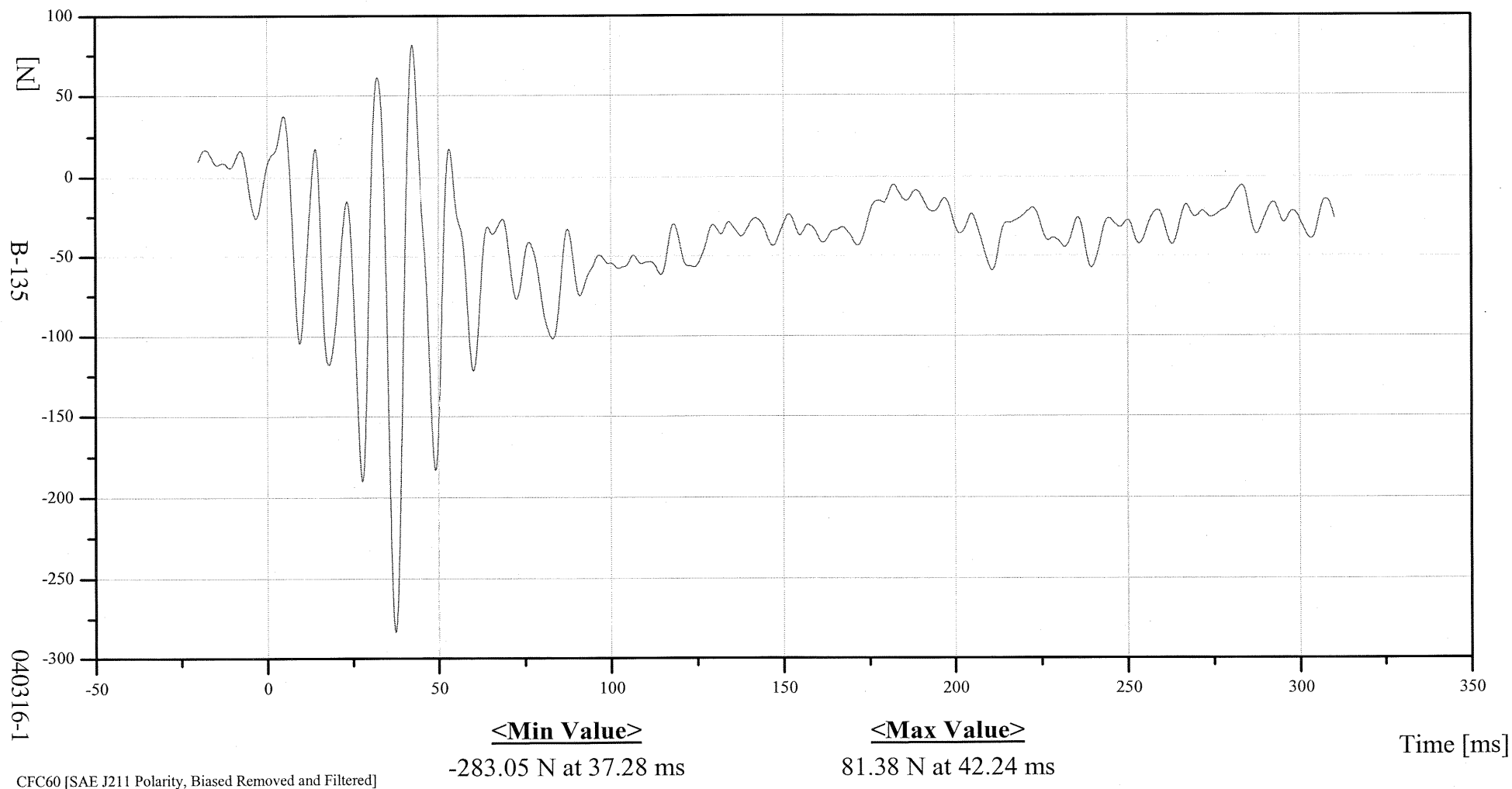
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0814





Transportation Research Center, Inc.

ROW 8 COLUMN 15

Date: 03/16/2004

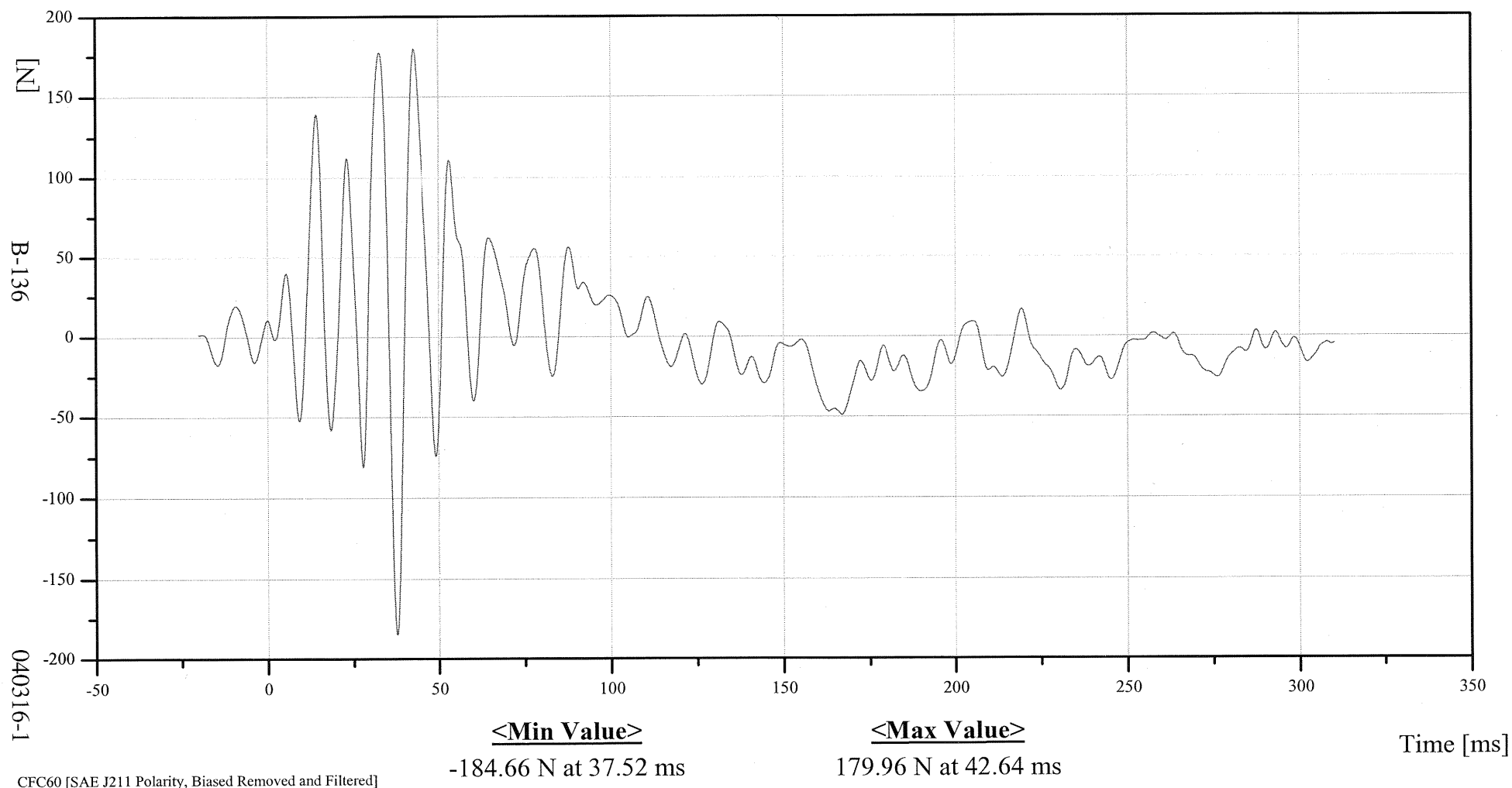
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0815





Transportation Research Center, Inc.

ROW 8 COLUMN 16

Date: 03/16/2004

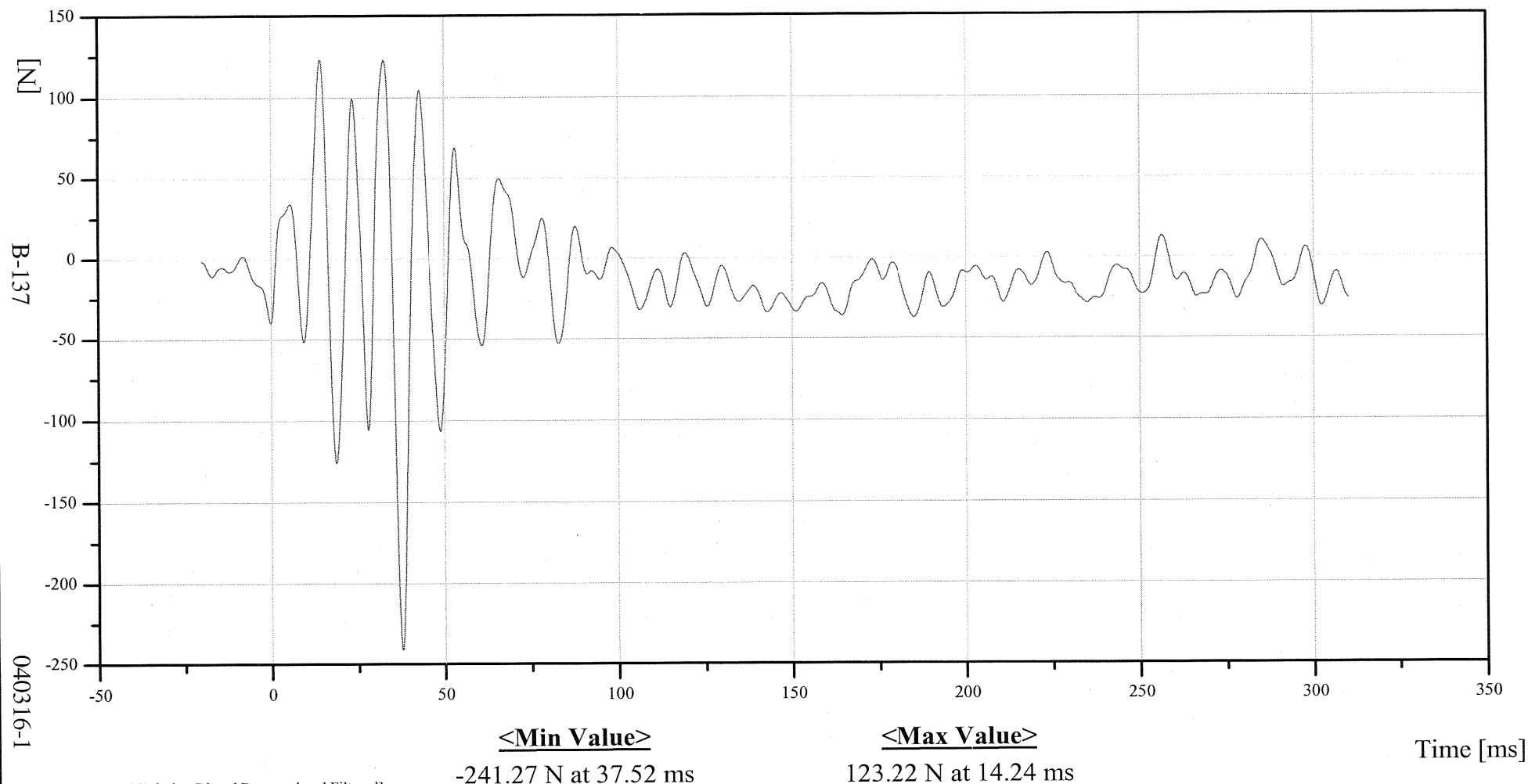
Time: 09:51:08

Test Lab: CTF

Customer: VRTC

Test Number: 040316-1

LC0816



Appendix C

Miscellaneous Test Information

Channel Report

3/16/2004 11:13:08 AM

Name of Test 040316-1

System MINIDAU

Name of DAU DAU9

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
9001	P33151	VCGXG1	VEHICLE CG X-AXIS	FWD	1015.8327	g	+ 2/27/2004	OK -1	Endevco	7264C-2K-2-180
9002	P33049	VCGYG1	VEHICLE CG Y-AXIS	LT	1009.1056	g	- 2/27/2004	OK -1	Endevco	7264C-2K-2-180
9003	P33028	VCGZG1	VEHICLE CG Z-AXIS	UP	1012.0177	g	- 2/27/2004	OK -1	Endevco	7264C-2K-2-180
9004	P28583	RDKXG1	REAR DECK X-AXIS	FWD	1015.6916	g	+ 12/12/2003	OK -1	Endevco	7264C-2K-2-180
9005	P30430	RDKYG1	REAR DECK Y-AXIS	RT	987.80676	g	+ 1/23/2004	OK -1	Endevco	7264C-2K-2-180
9006	P29974	RDKZG1	REAR DECK Z-AXIS	UP	1008.3504	g	- 1/14/2004	OK -1	Endevco	7264C-2K-2-180

Channel Report

3/16/2004 11:13:08 AM

Name of Test 040316-1

System MINIDAU

Name of DAU DAUE

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	EVENT	EVENT	EVENT		5.12 V	+	11/8/2003	OK -1	TRC	Event
0002	398390053	LC0101	ROW 1 COLUMN 1		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0003	398390008	LC0102	ROW 1 COLUMN 2		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0004	398390028	LC0103	ROW 1 COLUMN 3		299966.01 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0005	398390038	LC0104	ROW 1 COLUMN 4		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0006	398390003	LC0105	ROW 1 COLUMN 5		299923.49 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0007	398390014	LC0106	ROW 1 COLUMN 6		299916.29 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0008	398390024	LC0107	ROW 1 COLUMN 7		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0009	398390006	LC0108	ROW 1 COLUMN 8		300053.21 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0010	398390132	LC0109	ROW 1 COLUMN 9		300091.55 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0011	398390023	LC0110	ROW 1 COLUMN 10		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0012	398390033	LC0111	ROW 1 COLUMN 11		299959.86 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0013	398390019	LC0112	ROW 1 COLUMN 12		300073.26 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0014	398390113	LC0113	ROW 1 COLUMN 13		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0015	398390098	LC0114	ROW 1 COLUMN 14		300075.01 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0016	398390104	LC0115	ROW 1 COLUMN 15		300051.27 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0017	398390088	LC0116	ROW 1 COLUMN 16		300091.55 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0018	398390120	LC0201	ROW 2 COLUMN 1		300053.21 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0019	398390063	LC0202	ROW 2 COLUMN 2		299990.18 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0020	398390124	LC0203	ROW 2 COLUMN 3		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0021	398390093	LC0204	ROW 2 COLUMN 4		300053.21 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0022	398390046	LC0205	ROW 2 COLUMN 5		300075.01 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0023	398390122	LC0206	ROW 2 COLUMN 6		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0024	398390002	LC0207	ROW 2 COLUMN 7		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0025	398390060	LC0208	ROW 2 COLUMN 8		299937.90 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0026	398390105	LC0209	ROW 2 COLUMN 9		299959.86 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0027	398390020	LC0210	ROW 2 COLUMN 10		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0028	398390069	LC0211	ROW 2 COLUMN 11		299983.85 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0029	398390041	LC0212	ROW 2 COLUMN 12		300051.27 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0030	398390112	LC0213	ROW 2 COLUMN 13		299916.29 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0031	398390074	LC0214	ROW 2 COLUMN 14		300075.01 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0032	398390128	LC0215	ROW 2 COLUMN 15		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875

C-3

040316-1

Channel Report

3/16/2004 11:13:08 AM

0033	398390075	LC0216	ROW 2 COLUMN 16	300075.01	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0034	398390125	LC0301	ROW 3 COLUMN 1	300025.87	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0035	398390004	LC0302	ROW 3 COLUMN 2	299937.90	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0036	398390051	LC0303	ROW 3 COLUMN 3	299937.90	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0037	398390042	LC0304	ROW 3 COLUMN 4	300051.27	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0038	398390011	LC0305	ROW 3 COLUMN 5	300114.41	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0039	398390117	LC0306	ROW 3 COLUMN 6	299937.90	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0040	398390066	LC0307	ROW 3 COLUMN 7	299895.65	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0041	398390045	LC0308	ROW 3 COLUMN 8	299966.01	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0042	398390077	LC0309	ROW 3 COLUMN 9	300114.15	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0043	398390029	LC0310	ROW 3 COLUMN 10	300091.55	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0044	398390100	LC0311	ROW 3 COLUMN 11	300004.68	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0045	398390102	LC0312	ROW 3 COLUMN 12	300114.15	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0046	398390091	LC0313	ROW 3 COLUMN 13	300025.87	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0047	398390012	LC0314	ROW 3 COLUMN 14	299966.01	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875
0048	398390017	LC0315	ROW 3 COLUMN 15	299990.18	N	+	12/10/2003	OK	VRTC	KYOWA	F99-1875

C4

040316-1

Channel Report

3/16/2004 11:13:08 AM

Name of Test 040316-1

System MINIDAU

Name of DAU DAUF

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	398390081	LC0316	ROW 3 COLUMN 16		300027.89 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0002	398390040	LC0401	ROW 4 COLUMN 1		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0003	398390007	LC0402	ROW 4 COLUMN 2		299959.86 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0004	398390071	LC0403	ROW 4 COLUMN 3		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0005	398390094	LC0404	ROW 4 COLUMN 4		299916.29 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0006	398390067	LC0405	ROW 4 COLUMN 5		299966.01 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0007	398390086	LC0406	ROW 4 COLUMN 6		300025.87 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0008	398390118	LC0407	ROW 4 COLUMN 7		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0009	398390101	LC0408	ROW 4 COLUMN 8		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0010	398390073	LC0409	ROW 4 COLUMN 9		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0011	398390047	LC0410	ROW 4 COLUMN 10		299937.90 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0012	398390099	LC0411	ROW 4 COLUMN 11		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0013	398390080	LC0412	ROW 4 COLUMN 12		299905.92 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0014	398390097	LC0413	ROW 4 COLUMN 13		300027.89 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0015	398390048	LC0414	ROW 4 COLUMN 14		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0016	398390061	LC0415	ROW 4 COLUMN 15		299959.86 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0017	398390005	LC0416	ROW 4 COLUMN 16		299983.85 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0018	398390090	LC0501	ROW 5 COLUMN 1		299983.85 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0019	398390065	LC0502	ROW 5 COLUMN 2		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0020	398390079	LC0503	ROW 5 COLUMN 3		300051.27 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0021	398390055	LC0504	ROW 5 COLUMN 4		300027.89 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0022	398390031	LC0505	ROW 5 COLUMN 5		300091.55 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0023	398390054	LC0506	ROW 5 COLUMN 6		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0024	398390050	LC0507	ROW 5 COLUMN 7		300114.15 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0025	398390089	LC0508	ROW 5 COLUMN 8		300091.55 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0026	398390130	LC0509	ROW 5 COLUMN 9		299895.65 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0027	398390082	LC0510	ROW 5 COLUMN 10		299923.49 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0028	398390083	LC0511	ROW 5 COLUMN 11		299916.29 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0029	398390123	LC0512	ROW 5 COLUMN 12		300091.55 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0030	398390032	LC0513	ROW 5 COLUMN 13		300004.68 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0031	398390121	LC0514	ROW 5 COLUMN 14		300027.89 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875
0032	398390009	LC0515	ROW 5 COLUMN 15		299959.86 N	+	12/10/2003	OK VRTC	KYOWA	F99-1875

C5

040316-1

Channel Report

3/16/2004 11:13:09 AM

Name of Test 040316-1

System MINIDAU

Name of DAU DAUG

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	398390037	LC0516	ROW 5 COLUMN 16		299959.86	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0002	398390036	LC0601	ROW 6 COLUMN 1		299916.29	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0003	398390052	LC0602	ROW 6 COLUMN 2		299895.65	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0004	398390010	LC0603	ROW 6 COLUMN 3		300114.15	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0005	398390034	LC0604	ROW 6 COLUMN 4		300004.68	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0006	398390026	LC0605	ROW 6 COLUMN 5		299930.87	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0007	398390022	LC0606	ROW 6 COLUMN 6		299916.29	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0008	398390030	LC0607	ROW 6 COLUMN 7		299916.29	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0009	398390016	LC0608	ROW 6 COLUMN 8		300114.15	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0010	398390035	LC0609	ROW 6 COLUMN 9		299895.65	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0011	398390092	LC0610	ROW 6 COLUMN 10		299937.90	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0012	398390043	LC0611	ROW 6 COLUMN 11		300025.87	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0013	398390076	LC0612	ROW 6 COLUMN 12		299895.65	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0014	398390001	LC0613	ROW 6 COLUMN 13		299959.86	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0015	398390087	LC0614	ROW 6 COLUMN 14		300025.87	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0016	398390096	LC0615	ROW 6 COLUMN 15		299966.01	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0017	398390015	LC0616	ROW 6 COLUMN 16		299895.65	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0018	398390027	LC0701	ROW 7 COLUMN 1		300027.89	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0019	398390111	LC0702	ROW 7 COLUMN 2		299916.29	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0020	398390072	LC0703	ROW 7 COLUMN 3		300075.01	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0021	398390106	LC0704	ROW 7 COLUMN 4		299959.86	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0022	398390056	LC0705	ROW 7 COLUMN 5		300027.89	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0023	398390114	LC0706	ROW 7 COLUMN 6		300093.66	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0024	398390068	LC0707	ROW 7 COLUMN 7		299956.17	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0025	398390057	LC0708	ROW 7 COLUMN 8		300027.89	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0026	398390049	LC0709	ROW 7 COLUMN 9		299895.65	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0027	398390131	LC0710	ROW 7 COLUMN 10		300075.01	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0028	398390018	LC0711	ROW 7 COLUMN 11		300091.55	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0029	398390084	LC0712	ROW 7 COLUMN 12		300073.26	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0030	398390062	LC0713	ROW 7 COLUMN 13		300004.68	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0031	398390078	LC0714	ROW 7 COLUMN 14		299959.86	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875
0032	398390064	LC0715	ROW 7 COLUMN 15		299966.01	N	+ 12/10/2003	OK VRTC	KYOWA	F99-1875

040316-1

040316-1

Channel Report

3/16/2004 11:13:09 AM

Name of Test 040316-1

System MINIDAU

Name of DAU DAUH

Chan.#	Sensor #	Mnemonic	Description	Dir.	Range	Pol.	Cal.	Group	Mfg.	Model
0001	398390021	LC0716	ROW 7 COLUMN 16		300004.68	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0002	398390133	LC0801	ROW 8 COLUMN 1		300004.68	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0003	398390039	LC0802	ROW 8 COLUMN 2		300091.55	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0004	398390085	LC0803	ROW 8 COLUMN 3		299937.90	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0005	398390059	LC0804	ROW 8 COLUMN 4		300075.01	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0006	398390116	LC0805	ROW 8 COLUMN 5		300025.87	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0007	398390013	LC0806	ROW 8 COLUMN 6		299959.86	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0008	398390119	LC0807	ROW 8 COLUMN 7		300073.26	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0009	398390107	LC0808	ROW 8 COLUMN 8		300073.26	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0010	398390095	LC0809	ROW 8 COLUMN 9		300093.66	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0011	398390103	LC0810	ROW 8 COLUMN 10		300091.55	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0012	398390129	LC0811	ROW 8 COLUMN 11		299895.65	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0013	398390058	LC0812	ROW 8 COLUMN 12		300004.68	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0014	398390126	LC0813	ROW 8 COLUMN 13		299895.65	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0015	398390108	LC0814	ROW 8 COLUMN 14		300093.66	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0016	398390025	LC0815	ROW 8 COLUMN 15		300025.87	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875
0017	398390070	LC0816	ROW 8 COLUMN 16		299990.18	N	+ 12/10/2003	OK	VRTC	KYOWA F99-1875

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