



V-MAC[®] III
Data Extraction and Incident Report

1M1AA13Y9YWXXXXXX

CH613 XXXXXX

SAMPLE REPORT

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Department of Reliability Engineering

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Allentown, PA 18105

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Engineer: _____

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1. Table of Contents

1.	Table of Contents.....	2
2.	Mack Trucks, Inc: Mainframe Chassis Records	3
2.1.	Corporate Chassis Record.....	3
2.1.1.	Chassis by Model and Serial Number.....	3
2.2.	MWM - Mack Warranty Management System	3
2.2.1.	Chassis Base Inquiry.....	3
3.	V-MAC Online	4
3.1.1.	Vehicle Information Screen.....	4
4.	Service Diagnostics.....	6
4.1.	Vehicle Data Log.....	6
4.2.	Maintenance Data Log.....	8
5.	Customer Data Programming	10
5.1.	View/Print Current Parameters, All	10
6.	DataMax Incident Log Information.....	16
6.1.1.	Logged Incident Table No. 1	16
6.1.2.	Logged Incident Chart No. 1 - Engine RPM	22
6.1.3.	Logged Incident Chart No. 1 - Vehicle Speed	23
6.1.4.	Logged Incident Table No. 2	24
6.1.5.	Logged Incident Chart No. 2 - Engine RPM	30
6.1.6.	Logged Incident Chart No. 2 - Vehicle Speed	31

2. Mack Trucks, Inc: Mainframe Chassis Records

2.1. Corporate Chassis Record

2.1.1. Chassis by Model and Serial Number

CCRF0200 CORPORATE CHASSIS RECORD 07/25/05 11
02 CHASSIS BY MODEL AND SERIAL NUMBER

GSO: 075879
MODEL: CH613
SERIAL NUMBER: 133051
VIN NUMBER: 1M1AA13Y9YWXXXXXXX
LINE SET NUMBER: W000317081
CUSTOMER NAME: XXXXXXXXXXXXXXXXXXXXX
PLANT: W WINNSBRO
PLACEMENT DATE: 00/03/20
SHIPMENT DATE: 00/03/21
TRANSFER TO SALES: 00/03/21
BRANCH/DISTRIBUTOR: C640
CUSTOMER FICHE CODE: X SERIAL NUMBER: 0108400050
COMPONENT INFO: X COMP AND ARGV PURGED
CHANGE OVER: BM GROUPS CHANGED:

2.2. MWM - Mack Warranty Managment System

2.2.1. Chassis Base Inquiry

MWMF4011 MACK WARRANTY MANAGEMENT DATE: 07/25/05 11:36
011 CHASSIS BASE INQUIRY

CHASSIS MODEL: CH613 SERIAL: 133051 VIN: 1M1AA13Y9YWXXXXXXX

G S O NUMBER : 075879 ASSET NUMBER :
PLANT : 088 WINNSBORO
CURRENT OWNER : XXXXXXXXXXXXXXXXXXXXXXXXXXXX LEASED: N
SELLING DEALER NAME : C640 LjL TRUCK CENTER INC.
WARRANTY APPLICATION : DA DOM. ON HIGH. - STD DUTY
EXTENDED WARRANTY : SIQF.....: Y
HIGHEST MILEAGE : 205 M GE CONTROL...: 183482
PLACEMENT DATE : 03/20/2000 SHIPMENT DATE: 03/21/2000
TRANSFER TO SALES : 03/21/2000 DELIVERY DATE: 04/05/2000
BILLING DATE : 03/21/2000 WARRANTY DATE: 00/00/0000
STOLEN DATE : 00/00/0000 SCRAPPED DATE: 00/00/0000
WARRANTY TRANSFER DATE: : TRANSFER IND : USED:
CHASSIS BASE UPDATED : MWMP4005 DATE UPDATED : 04/27/2000

3. V-MAC Online

3.1.1. Vehicle Information Screen

Selected Vehicle			
Chassis Model:	<input type="text" value="CH613"/>	Chassis Serial #:	<input type="text" value="XXXXXX"/> <input type="button" value="Select"/>
VIN:	<input type="text" value="1M1AA13Y9YWXXXXXX"/>		<input type="button" value="Select"/>
Lineset:	<input type="text" value="W000317081"/>		<input type="button" value="Select"/>

Vehicle Type - V-MAC III			
General Vehicle Information			
Initial Pre-verification:	N	GSO:	075879
Transferred to Sales:	Y	Transferred to Sales Date:	3-13-2000
Reported Stolen:	N	Stolen Date:	N/A
Reported Scrapped:	N	Scrapped Date:	N/A
Product Version:	VECU Step 7		
Transmission Information			
Transmission Model:	LLPSO150-10S 10 SPEE	Transmission PID Code:	1363033
Transmission Type:	MN		
Vehicle Option Information			
Exhaust Pyrometer:	N	Trans Oil Temp Sensor:	Y
Axle Oil Temp Sensor:	N	Fuel Level Sensor:	N
Max Driveline Torque:	22000	ABS Control Unit:	None
GuardDog:	N	Predictive Oil Lamp:	N
MPG Incentive Program:	N	Electronic Dashboard:	N
Vehicle ECU Information Show Last Known			
VECU Serial #:	1720022000	VECU Purchase Part #:	<u>12MS411M5</u>
VECU Software:	1MS328 01 1	VECU Hardware Part #:	12MS48M5
<i>Last Known:</i>	<i>1MS328 01 null</i>		
VECU Datafile:	<u>1MS329 01 1</u>	VECU Password:	3808200092
<i>Last Known:</i>	<i>1MS329 01 null</i>		
CDS Datafile:	None	VECU Seed:	0000175310
VECU Verifaicton Received:	Y		
VIP ECU Information			
VIP not present on this vehicle			

Engine Type - V-MAC III			
General Engine Information			
Engine Serial #:	0D1880	Engine Model:	E7355380
Certification Year:	2000	Assigned:	Y
Product Version:	EECU Step 7A E-Tech	Engine Vendor:	Mack
Turbo Serial #:	null		
Engine Option Information			
Ambient Air Temp Sensor:	Yes	Manifold Pressure Sensor:	N
Engine Brake:	N	Auxiliary Cooling Fan:	N

Electric Air Cleaner Scavenger:	N		
Engine ECU Information			Show Last Known
EECU Serial #:	69410718	EECU Purchase Part #:	<u>12MS517AM</u>
EECU Software:	1MS326A 01 1	EECU Hardware Part #:	12MS410M2
<i>Last Known:</i>	<i>1MS326A 01 null</i>		
EECU Datafile:	1MS5108P13 01 1	EECU Password:	0102264261
<i>Last Known:</i>	<i>1MS5108P13 01 null</i>		
EECU Verification Received:	Y	EECU Seed:	6941071800
Engine Trim Information			
RPM Adjustment 1:	1800	Trim Adjustment 1:	02.8
RPM Adjustment 2:	1100	Trim Adjustment 2:	04.2
Engine EUP Information			
EUP Serial 1:	0B4381F	EUP Calibration Code 1:	1362
EUP Serial 2:	0B43818	EUP Calibration Code 2:	7004
EUP Serial 3:	0B437YT	EUP Calibration Code 3:	3857
EUP Serial 4:	0B437ZJ	EUP Calibration Code 4:	4772
EUP Serial 5:	0B43819	EUP Calibration Code 5:	8513
EUP Serial 6:	0B438FN	EUP Calibration Code 6:	3651

4. Service Diagnostics

4.1. Vehicle Data Log

VIN: 1M1AA18YX2WXXXXXX

	Life	Vehicle Trip
Vehicle Time (hr)	1662.3	1662.3
Total Fuel (gal.)	8827.5	8827.5
Distance (miles)	52621.0	52621.0
Key Switch On Occurrences	700	700
Engine Revolutions (x100)	1116861	1116861
Cranking Time (hr)	0.0	0.0
Engine Running Time (hr)	1657.6	1657.6
Engine Running Fuel (gal.)	8827.5	8827.5
Vehicle Moving Fuel (gal.)	8520.7	8520.7
Vehicle Moving Time (hr)	1036.6	1036.6
True Idle Time (hr)	535.3	535.3
True Idle Fuel (gal.)	244.5	244.5
Idle Time (hr)	620.9	620.9
Idle Fuel (gal.)	303.0	303.0
Delayed Idle Time (hr)	486.7	486.7
Delayed Idle Fuel (gal.)	230.9	230.9
Hand Throttle Time (hr)	79.7	79.7
Hand Throttle Fuel (gal.)	49.4	49.4
Hand Throttle Distance (miles)	0.0	0.0
PTO #1 Time (hr)	0.0	0.0
PTO #1 Fuel (gal.)	0.0	0.0
Moving PTO #1 Time (hr)	0.0	0.0
Moving PTO #1 Fuel (gal.)	0.0	0.0
Moving PTO #1 Distance (miles)	0.0	0.0
PTO #2 Time (hr)	0.0	0.0
PTO #2 Fuel (gal.)	0.0	0.0
Moving PTO #2 Time (hr)	0.0	0.0
Moving PTO #2 Fuel (gal.)	0.0	0.0
Moving PTO #2 Distance (miles)	0.0	0.0
Time in Cruise Control (hr)	252.7	252.7
Fuel Used in Cruise Control (gal.)	2297.3	2297.3
Distance in Cruise Control (miles)	15650.0	15650.0
Fueled Vehicle Overspeed Time (hr)	0.0	0.0
Vehicle Overspeed Occurrences	48	48
Vehicle Overspeed Time (min)	7.7	7.7
Vehicle Overspeed Max (mph)	77.8	77.8
Engine Overspeed Co. Threshold Time (hr)	0.0	0.0
Engine Overspeed Co. Threshold Max (rpm)	2332	2332
Fan Clutch Cycles	709	N/A
Active Fault Time (min)	1059.5	1059.5
Active Fault Occurrences	28	28
Hard Braking Occurrences	54	54
Traction Loss Occurrences	16	16
Severe Engine Overspeed Occurrences	0	N/A
Severe Engine Overspeed Max (rpm)	0	N/A
Fueled Engine Overspeed Time (hr)	12.9	12.9
Maximum Engine Speed (rpm)	2336	2336

Maximum Vehicle Speed (mph)	78	78
Time in Sweet Spot (hr)	726.7	726.7
Fuel Used in Sweet Spot (gal.)	4717.7	4717.7
Distance Traveled in Sweet Spot (miles)	38514.2	38514.2
Average Driving Speed (mph)	50.8	50.8
Driving Fuel Economy (mpg)	6.2	6.2
% Driving Time	62.4	62.4
Average Speed (mph)	31.7	31.7
Total Fuel Economy (mpg)	6.0	6.0
Cruise Fuel Economy (mpg)	6.8	6.8
Average Cruise Speed (mph)	61.9	61.9
% Cruise Time	15.2	15.2
% Cruise Fuel	26.0	26.0
% Cruise Distance	29.7	29.7
% Time in Sweet Spot	40.0	40.0
% Fuel Used in Sweet Spot	50.0	50.0
% Distance Traveled in Sweet Spot	70.0	70.0
% True Idle Time	32.2	32.2
% True Idle Fuel	2.8	2.8
% Idle Time	37.4	37.4
% Idle Fuel	3.4	3.4
% Delayed Idle Time	29.3	29.3
% Delayed Idle Fuel	2.6	2.6
% PTO Time - All	0.0	0.0
% PTO Fuel - All	0.0	0.0
% PTO Distance - All	0.0	0.0

4.2. Maintenance Data Log

VIN: 1M1AA18YX2WXXXXXX

	Before Next -----	Since Last -----
Oil Change		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 days	0 days
Oil Change & Filter		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 days	0 days
Fuel Filter		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 days	0 days
Air Filter		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Engine Belts		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Coolant Conditioner		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 days	0 days
Engine Coolant		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Clutch Lube		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Chassis Lube		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Power Steering		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Turbo/Injectors		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Gear Oil		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Fan Clutch		

Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Customer Defined		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks
Customer Defined		
Distance (miles)	0	0
Engine (hours)	0	0
Interval	0 weeks	0 weeks

5. Customer Data Programming

5.1. View/Print Current Parameters, All

Vehicle Data and Settings:

Serial Numbers:

Vehicle ID#: 1M1AA13Y9YWXXXXXX
Vehicle Serial #: XXXXXX
Engine Serial #: 0D1880
V-MAC III Serial #: 1720022000
V-MAC Software Version: 1MS328
Datafile Part #: 1MS329

Data Programming History:

OEM Information:

Winnsboro 3/20/2000 1:32:46 PM
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Vehicle Information:

MPC2523 9/7/2000 6:31:00 PM
MPC2523 4/6/2000 4:02:00 PM
MPC2523 4/6/2000 3:53:00 PM
Winnsboro 3/20/2000 1:32:46 PM
N/A
N/A
N/A
N/A
N/A
N/A

Customer Information:

MPC2523 9/7/2000 6:32:00 PM
MPC2523 4/9/2000 7:00:00 AM
MPC2523 4/6/2000 4:01:00 PM
MPC2523 4/6/2000 3:59:00 PM
MPC2523 4/6/2000 3:58:00 PM
MPC2523 4/6/2000 3:57:00 PM
MPC2523 4/6/2000 3:56:00 PM
MPC2523 4/6/2000 3:54:00 PM
Winnsboro 3/20/2000 1:32:47 PM
N/A

Fleet Information:

MPC2523 4/6/2000 3:54:00 PM
Winnsboro 3/20/2000 1:32:47 PM
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Vehicle Data Settings:

Unit ID Number:
Manual Transmission Installed
Transmission Model: LLPS0150-10S 10 SPEE
Transmission Top Gear Ratio: 0.75
Carrier Ratio: 3.7
Tire Size: 514 revs/miles
Road Speed Pickup Teeth: 16 pulses/rev
Road Speed Limit: 68.0 mph

Low Gear RSL:	54 mph
Engine Load Threshold for no mph signal:	40 %
Failed mph sensor engine power limit:	75 %
Battery low voltage threshold:	10.5 volts
Alternator low voltage fault threshold:	11.5 volts
Alternator high voltage fault threshold:	16 volts
Cruise Button Bonus enabled:	NO
Detect loss of signal from mph sensor:	YES
Limit power if no signal from mph sensor:	YES
Limit power if electrical fault from mph sensor:	YES
Electronic Torque Limiting Parameters:	
Customer Torque Limit:	2000 lb-ft
Customer Torque Limit Gear Ratio:	1
Torque Limit Ramp Up Time:	1 sec
Torque Limit with PTO:	YES
Enable Fault if Incorrect Gear Ratio:	NO

General and Vocational Features Settings:

General Features:

Lower gear road speed limit option:	YES
Delay engine brake application in cruise:	NO
Low idle adjust with switches:	NO
Hold electrical power on until vehicle stopped:	YES
Enable sleep mode alert:	YES
Display mpg type:	Driving mpg
Engine overspeed fault threshold:	2000 rpm
Service brake fault threshold with engine:	5 mph

Vocational Features:

Set/Resume switch state:	Set/Decel Resume/Accel
Inhibit cruise with PTO on:	YES
Single press of resume to accel:	NO
Initial set using resume switch:	NO
Driveshaft PTO2 option:	NO
Set/Resume fault diagnostic:	YES
PTO 3 switch setting:	Factory Setting (Default)
PTO 4 switch setting:	Factory Setting (Default)
Control 1 switch setting:	Factory Setting (Default)
Control 2 switch setting:	Factory Setting (Default)

Cruise Control Parameters:

Cruise Control Settings:

Custom cruise control:	NO
Cruise min road speed:	35 mph
Cruise max road speed:	68 mph
Accel bump speed:	1 mph
Decel bump speed:	1 mph

Electronic Hand Throttle Parameters:

Electronic Hand Throttle Settings:

Custom electronic hand throttle:	NO
Hand throttle min set speed:	475 rpm
Hand throttle max set speed:	900 rpm
Hand throttle engine speed limit:	900 rpm
Hand throttle max road speed:	10 mph
Throttle ramp rate:	100 rpm/sec

PTO Parameters:

PTO 1 Settings:

Custom PTO 1:	NO	Autoset:	NO
Jump to min speed:	NO	Dropout above max:	NO
Accel bump speed:	0 rpm	Decel bump speed:	0 rpm
Hold to nearest:	0 rpm	Accel ramp rate:	100 rpm/sec
Decel ramp rate:	100 rpm/sec	Minimum set speed:	475 rpm
Maximum set speed:	1300 rpm	Maximum road speed:	10 mph
Engine speed limit:	1300 rpm	Preset speed:	1300 rpm
Road Speed Limit:	100 mph	Hold minimum speed:	NO
Single speed control:	YES		
Park brake check for PTO:	NO		

Engagement Requirements:

Park Brake:	Ignore	Service Brake:	OFF Required
Clutch:	Ignore	PTO 2:	Ignore
PTO 3:	Ignore	PTO 4:	Ignore
Control 1:	Ignore	Control 2:	Ignore

Dropout Requirements:

Park Brake:	Ignore	Service Brake:	ON Required
Clutch:	Pedal Pushed	PTO 2:	Ignore
PTO 3:	Ignore	PTO 4:	Ignore
Control 1:	Ignore	Control 2:	Ignore

Temporary Dropout Requirements:

Park Brake:	Ignore	Service Brake:	Ignore
Clutch:	Ignore	PTO 2:	Ignore
PTO 3:	Ignore	PTO 4:	Ignore
Control 1:	Ignore	Control 2:	Ignore

PTO 2 Settings:

Custom PTO 2:	NO	Autoset:	NO
Jump to min speed:	NO	Dropout above max:	NO
Accel bump speed:	0 rpm	Decel bump speed:	0 rpm
Hold to nearest:	0 rpm	Accel ramp rate:	100 rpm/sec

Decel ramp rate:	100 rpm/sec	Minimum set speed:	475 rpm
Maximum set speed:	2100 rpm	Maximum road speed:	10 mph
Engine speed limit:	2100 rpm	Preset speed:	1000 rpm
Road Speed Limit:	100 mph	Hold minimum speed:	NO
Single speed control:	NO		
Park brake check for PTO:	NO		
Engagement Requirements:			
Park Brake:	Ignore	Service Brake:	OFF Required
Clutch:	Ignore	PTO 1:	Ignore
PTO 3:	Ignore	PTO 4:	Ignore
Control 1:	Ignore	Control 2:	Ignore
Dropout Requirements:			
Park Brake:	Ignore	Service Brake:	ON Required
Clutch:	Pedal Pushed	PTO 1:	Ignore
PTO 3:	Ignore	PTO 4:	Ignore
Control 1:	Ignore	Control 2:	Ignore
Temporary Dropout Requirements			
Park Brake:	Ignore	Service Brake:	Ignore
Clutch:	Ignore	PTO 1:	Ignore
PTO 3:	Ignore	PTO 4:	Ignore
Control 1:	Ignore	Control 2:	Ignore
PTO 3 Not Installed!			
PTO 4 Not Installed!			

Fan Override Options (Cab Fan Controls):

Fan Override Options (Cab Fan Controls):

Allow fan override when moving:	NO
Allow fan override when parked:	NO
Engage fan with engine brake:	NO
Engage fan with PTO 1 on:	NO
Engage fan with PTO 2 on:	NO
Engage fan with PTO 3 on:	NO
Engage fan with PTO 4 on:	NO

Fleet Data Settings:

Theft Deterrence Features:

Demand driver ID to operate:	NO
Demand driver ID to continue running beyond 30 secs.:	NO
Driver ID length:	5
Number of ID attempts allowed:	3
Theft distance before shutdown:	1 miles
Theft distance remaining after shutdown lamp on:	1 miles
Theft time before shutdown:	5 mins
Mechanic % of power limit:	50 %
Mechanic road speed limit:	12 mph
% power limit before shutdown:	50 %
% power limit if no ID:	50 %

Display and Trip Parameters:

Vehicle display type: NONE
Advance to next trip via display: NO
Reset DataMax via V.I.P.: NO
Reset driver trip via V.I.P.: YES
Reset maintenance via V.I.P.: YES
Display trip information on the V.I.P.: YES
Enable Sweet Spot Indicator on the V.I.P.: NO
VIP Programming Options: NO OPTIONS
Request driver name at every startup: NO
Blackout enabled: NO
Fleet mpg target: 5 mpg
Data save mode: Wrap around
Maintenance reminder broadcast schedule: (GMT)

No times selected.

Idle data type: Total idle
Source of driver name for trip: Use Theft Deterrence ID
Name length in list of drivers: 16
Engine overspeed company limit: 2150 rpm
Engine overspeed logging (severe): 2500 rpm
Engine overspeed logging with fuel: 2150 rpm
Vehicle overspeed logging with fuel: 65 mph
Vehicle overspeed all conditions: 70 mph
Idle logging delay: 0 mins
Hard braking threshold: -8 mph/sec
Traction loss threshold: 8 mph/sec

Incident Log Filter and Trigger Settings:

Engine speed increase trigger threshold: 50 rpm
Engine speed decrease trigger threshold: -50 rpm
Vehicle speed increase trigger threshold: 1 mph
Vehicle speed decrease trigger threshold: -1 mph
Vehicle acceleration trigger: 10 mph/sec
Vehicle deceleration trigger: -10 mph/sec
Trigger sample time: 100 msecs
Recording rate: 200 msecs
Engine speed filter: 6556 msecs
Vehicle speed filter: 6556 msecs

Incident Log Switches:

Service Brake
Park Brake
Clutch Pushed
Engine Brake Low Bank Engaged
Engine Brake High Bank Engaged
Cruise Control Status
Key Switch Status
No Switch Entry

Engine ECU Data:	1MS5108P13
EECU Serial Number:	69410718
EECU Software Version:	1MS326A
High idle engine speed:	2100 rpm
Engine coolant temperature engagement threshold:	195 °F
Engine coolant temperature disengagement threshold:	188 °F
Air temperature engagement threshold:	175 °F
Air conditioning override time:	60 secs
Smart fan installed:	YES
Engine sleep mode:	NO
Driveshaft PTO dropout threshold enabled:	NO
Fuel temperature sensor applied:	YES
Oil level sensor available:	NO
Engine brake installed:	NO
Exhaust brake installed:	NA
Output boost pressure on J1587:	NO
Oil temperature sensor available:	NO

5. DataMax Incident Log Information

6.1.1. Logged Incident Table No. 1

VIN Number: 1M1AA13Y9YWXXXXXX
Vehicle Unit ID:
Extract Date: Mon Jul 25 08:37:40 2005
Incident Date & Time: Date & Time Invalid (EST)
Mileage At Extraction: 700,230

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-15.8	Sec before incident	6	MPH	1160	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15.6	Sec before incident	6	MPH	1320	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15.4	Sec before incident	7	MPH	1400	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15.2	Sec before incident	8	MPH	1450	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15	Sec before incident	8	MPH	1420	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.8	Sec before incident	8	MPH	1310	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.6	Sec before incident	8	MPH	1280	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.4	Sec before incident	8	MPH	1380	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.2	Sec before incident	8	MPH	1400	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14	Sec before incident	8	MPH	1440	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.8	Sec before incident	8	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.6	Sec before incident	9	MPH	1530	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.4	Sec before incident	9	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.2	Sec before incident	9	MPH	1610	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13	Sec before incident	9	MPH	1620	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.8	Sec before incident	10	MPH	1630	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.6	Sec before incident	10	MPH	1650	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.4	Sec before incident	10	MPH	1720	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.2	Sec before incident	10	MPH	1890	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-12	Sec before incident	11	MPH	1920	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.8	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.6	Sec before incident	11	MPH	1810	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.4	Sec before incident	11	MPH	1800	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.2	Sec before incident	11	MPH	1820	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.8	Sec before incident	11	MPH	1870	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.6	Sec before incident	11	MPH	1870	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.4	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.2	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.8	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.6	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.4	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.2	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.8	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.6	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.4	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.2	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.8	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.6	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.4	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.2	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.8	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.6	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.4	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.2	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake

SW3 - Clutch Pushed

SW5 - Engine Brake High

SW7 - Key Switch

Page 17 of 31

SW2- Park Brake

SW4 - Engine Brake Low

SW6 - Cruise Control

SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-5.8	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5.6	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5.4	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5.2	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.8	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.6	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.4	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.2	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.8	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.6	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.4	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.2	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.8	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.6	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.4	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.2	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2	Sec before incident	11	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.8	Sec before incident	11	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.6	Sec before incident	11	MPH	1870	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.4	Sec before incident	11	MPH	1880	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.2	Sec before incident	11	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1	Sec before incident	11	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.8	Sec before incident	11	MPH	1650	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.6	Sec before incident	11	MPH	1370	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.4	Sec before incident	9	MPH	1130	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.2	Sec before incident	8	MPH	880	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0	incident occurred	5	MPH	810	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.2	Sec after incident	3	MPH	740	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake

SW3 - Clutch Pushed

SW5 - Engine Brake High

SW7 - Key Switch

Page 18 of 31

SW2 - Park Brake

SW4 - Engine Brake Low

SW6 - Cruise Control

SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
0.4	Sec after incident	1	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.6	Sec after incident	0	MPH	640	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.8	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.2	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.4	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.6	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.8	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.2	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.4	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.6	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.8	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3	Sec after incident	0	MPH	620	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.2	Sec after incident	0	MPH	600	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.4	Sec after incident	0	MPH	600	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.6	Sec after incident	0	MPH	610	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.8	Sec after incident	0	MPH	610	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4	Sec after incident	0	MPH	630	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.2	Sec after incident	0	MPH	640	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.4	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.6	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.8	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5	Sec after incident	0	MPH	640	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.2	Sec after incident	0	MPH	630	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.4	Sec after incident	0	MPH	620	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.6	Sec after incident	0	MPH	620	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.8	Sec after incident	0	MPH	630	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6	Sec after incident	0	MPH	640	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.2	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.4	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake

SW3 - Clutch Pushed

SW5 - Engine Brake High

SW7 - Key Switch

Page 19 of 31

SW2 - Park Brake

SW4 - Engine Brake Low

SW6 - Cruise Control

SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
6.6	Sec after incident	0	MPH	690	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.8	Sec after incident	0	MPH	690	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7	Sec after incident	0	MPH	680	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.2	Sec after incident	0	MPH	680	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.4	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.6	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.8	Sec after incident	0	MPH	620	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.2	Sec after incident	0	MPH	710	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
8.4	Sec after incident	1	MPH	940	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
8.6	Sec after incident	1	MPH	1200	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
8.8	Sec after incident	2	MPH	1430	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
9	Sec after incident	3	MPH	1670	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
9.2	Sec after incident	3	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
9.4	Sec after incident	3	MPH	1900	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
9.6	Sec after incident	4	MPH	1870	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
9.8	Sec after incident	4	MPH	1820	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
10	Sec after incident	4	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
10.2	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
10.4	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
10.6	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
10.8	Sec after incident	4	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11	Sec after incident	4	MPH	1860	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.2	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.4	Sec after incident	4	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.6	Sec after incident	4	MPH	1830	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.8	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12	Sec after incident	4	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.2	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.4	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.6	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake

SW3 - Clutch Pushed

SW5 - Engine Brake High

SW7 - Key Switch

Page 20 of 31

SW2 - Park Brake

SW4 - Engine Brake Low

SW6 - Cruise Control

SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
12.8	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
13	Sec after incident	4	MPH	1850	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
13.2	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
13.4	Sec after incident	4	MPH	1840	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
13.6	Sec after incident	4	MPH	1760	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
13.8	Sec after incident	4	MPH	1650	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
14	Sec after incident	4	MPH	1590	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
14.2	Sec after incident	3	MPH	1530	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
14.4	Sec after incident	3	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
14.6	Sec after incident	3	MPH	1440	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
14.8	Sec after incident	3	MPH	1430	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
15	Sec after incident	3	MPH	1430	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
15.2	Sec after incident	3	MPH	1440	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
15.4	Sec after incident	3	MPH	1440	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
15.6	Sec after incident	3	MPH	1460	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
15.8	Sec after incident	3	MPH	1480	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
16	Sec after incident	3	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

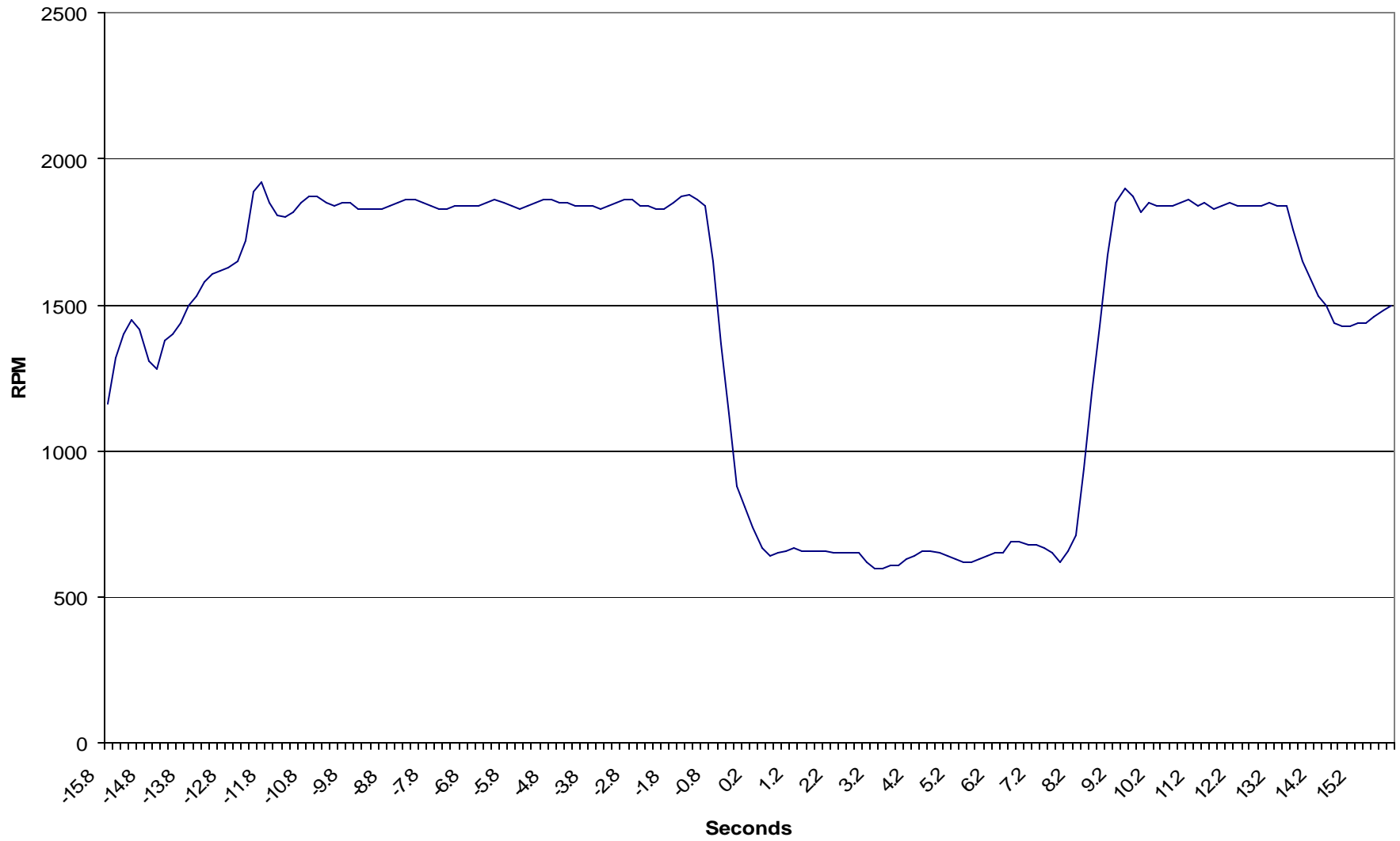
SW1 - Service Brake
SW2- Park Brake

SW3 - Clutch Pushed
SW4 - Engine Brake Low

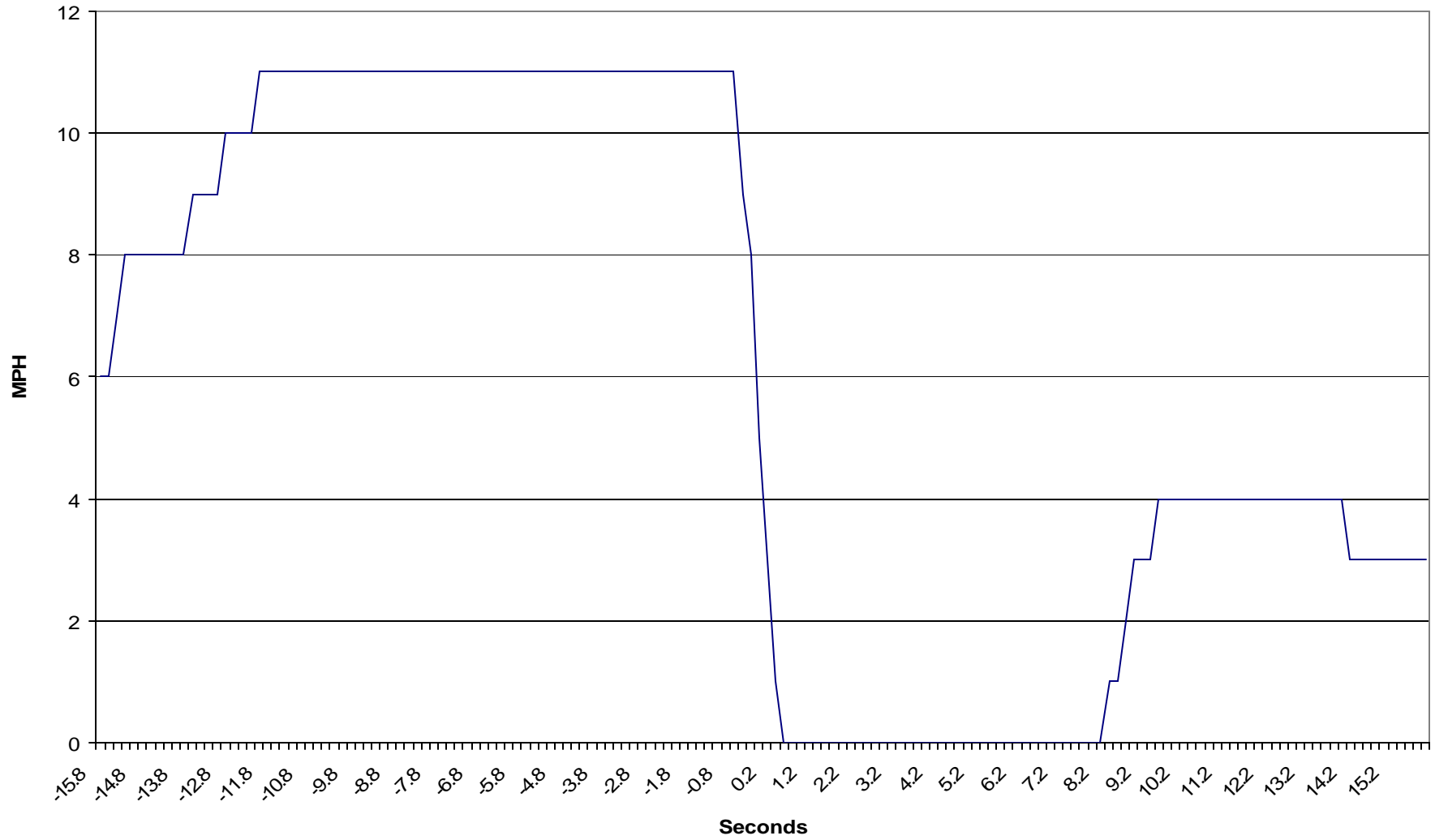
SW5 - Engine Brake High
SW6 - Cruise Control

SW7 - Key Switch
SW8 - Undefined

6.1.2. Logged Incident Chart No. 1 - Engine RPM



6.1.3. Logged Incident Chart No. 1 - Vehicle Speed



6.1.4. Logged Incident Table No. 2

VIN Number: 1M1AA13Y9YWXXXXXX
Vehicle Unit ID:
Extract Date: Mon Jul 25 08:37:40 2005
Incident Date & Time: Date & Time Invalid (EST)
Mileage At Extraction: 700,230

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-15.8	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15.6	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15.4	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15.2	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-15	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.8	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.6	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.4	Sec before incident	64	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14.2	Sec before incident	64	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-14	Sec before incident	64	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.8	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.6	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.4	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13.2	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-13	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.8	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.6	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.4	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12.2	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-12	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-11.8	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.6	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.4	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11.2	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-11	Sec before incident	63	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.8	Sec before incident	63	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.6	Sec before incident	63	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.4	Sec before incident	63	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10.2	Sec before incident	63	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-10	Sec before incident	62	MPH	1490	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.8	Sec before incident	62	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.6	Sec before incident	62	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.4	Sec before incident	62	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9.2	Sec before incident	62	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-9	Sec before incident	62	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.8	Sec before incident	62	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.6	Sec before incident	63	MPH	1500	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.4	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8.2	Sec before incident	63	MPH	1510	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-8	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.8	Sec before incident	63	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.6	Sec before incident	64	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.4	Sec before incident	64	MPH	1530	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7.2	Sec before incident	64	MPH	1530	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-7	Sec before incident	64	MPH	1540	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.8	Sec before incident	64	MPH	1540	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.6	Sec before incident	64	MPH	1550	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.4	Sec before incident	64	MPH	1540	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6.2	Sec before incident	64	MPH	1550	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-6	Sec before incident	65	MPH	1560	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5.8	Sec before incident	65	MPH	1560	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake
SW2 - Park Brake

SW3 - Clutch Pushed
SW4 - Engine Brake Low

SW5 - Engine Brake High
SW6 - Cruise Control

SW7 - Key Switch
SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-5.6	Sec before incident	65	MPH	1560	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5.4	Sec before incident	65	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5.2	Sec before incident	65	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-5	Sec before incident	65	MPH	1560	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.8	Sec before incident	65	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.6	Sec before incident	65	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.4	Sec before incident	65	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4.2	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-4	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.8	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.6	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.4	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3.2	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-3	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.8	Sec before incident	66	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.6	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.4	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2.2	Sec before incident	66	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-2	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.8	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.6	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.4	Sec before incident	66	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1.2	Sec before incident	65	MPH	1580	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-1	Sec before incident	66	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.8	Sec before incident	66	MPH	1570	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.6	Sec before incident	65	MPH	1550	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.4	Sec before incident	65	MPH	1560	RPM	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
-0.2	Sec before incident	64	MPH	1490	RPM	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
0	incident occurred	62	MPH	1260	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
0.2	Sec after incident	57	MPH	1280	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
0.4	Sec after incident	54	MPH	1220	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake

SW3 - Clutch Pushed

SW5 - Engine Brake High

SW7 - Key Switch

SW2- Park Brake

SW4 - Engine Brake Low

SW6 - Cruise Control

SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
0.6	Sec after incident	52	MPH	1180	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
0.8	Sec after incident	50	MPH	1130	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
1	Sec after incident	49	MPH	1120	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
1.2	Sec after incident	47	MPH	1090	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
1.4	Sec after incident	46	MPH	1060	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
1.6	Sec after incident	45	MPH	1030	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
1.8	Sec after incident	44	MPH	1000	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
2	Sec after incident	43	MPH	980	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
2.2	Sec after incident	42	MPH	950	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
2.4	Sec after incident	41	MPH	920	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
2.6	Sec after incident	39	MPH	900	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
2.8	Sec after incident	38	MPH	860	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
3	Sec after incident	37	MPH	800	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
3.2	Sec after incident	34	MPH	640	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
3.4	Sec after incident	31	MPH	570	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
3.6	Sec after incident	28	MPH	600	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
3.8	Sec after incident	26	MPH	550	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
4	Sec after incident	24	MPH	510	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
4.2	Sec after incident	22	MPH	420	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
4.4	Sec after incident	19	MPH	710	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
4.6	Sec after incident	15	MPH	710	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
4.8	Sec after incident	13	MPH	700	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
5	Sec after incident	11	MPH	690	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
5.2	Sec after incident	9	MPH	680	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
5.4	Sec after incident	7	MPH	680	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
5.6	Sec after incident	4	MPH	670	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
5.8	Sec after incident	3	MPH	660	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
6	Sec after incident	1	MPH	670	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
6.2	Sec after incident	0	MPH	660	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
6.4	Sec after incident	0	MPH	660	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
6.6	Sec after incident	0	MPH	660	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake
 SW2- Park Brake

SW3 - Clutch Pushed
 SW4 - Engine Brake Low

SW5 - Engine Brake High
 SW6 - Cruise Control

SW7 - Key Switch
 SW8 - Undefined

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
6.8	Sec after incident	0	MPH	660	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
7	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.2	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.4	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.6	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.8	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.2	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.4	Sec after incident	0	MPH	660	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.6	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.8	Sec after incident	0	MPH	640	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9	Sec after incident	0	MPH	630	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.2	Sec after incident	0	MPH	590	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.4	Sec after incident	0	MPH	620	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.6	Sec after incident	0	MPH	630	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.8	Sec after incident	0	MPH	730	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10	Sec after incident	0	MPH	980	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.2	Sec after incident	1	MPH	1230	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.4	Sec after incident	1	MPH	1420	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.6	Sec after incident	2	MPH	1570	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.8	Sec after incident	3	MPH	1520	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11	Sec after incident	3	MPH	1360	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.2	Sec after incident	3	MPH	1200	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.4	Sec after incident	2	MPH	1070	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.6	Sec after incident	2	MPH	930	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
11.8	Sec after incident	1	MPH	770	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12	Sec after incident	1	MPH	650	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.2	Sec after incident	1	MPH	640	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.4	Sec after incident	1	MPH	660	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.6	Sec after incident	1	MPH	670	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
12.8	Sec after incident	0	MPH	660	RPM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	VS		RPM		SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
13	Sec after incident	0	MPH	650	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.2	Sec after incident	0	MPH	610	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.4	Sec after incident	0	MPH	610	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.6	Sec after incident	0	MPH	610	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.8	Sec after incident	0	MPH	630	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14	Sec after incident	0	MPH	640	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.2	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.4	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.6	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.8	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15.2	Sec after incident	0	MPH	670	RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15.4	Sec after incident	0	MPH	660	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
15.6	Sec after incident	0	MPH	650	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
15.8	Sec after incident	0	MPH	640	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
16	Sec after incident	0	MPH	640	RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF

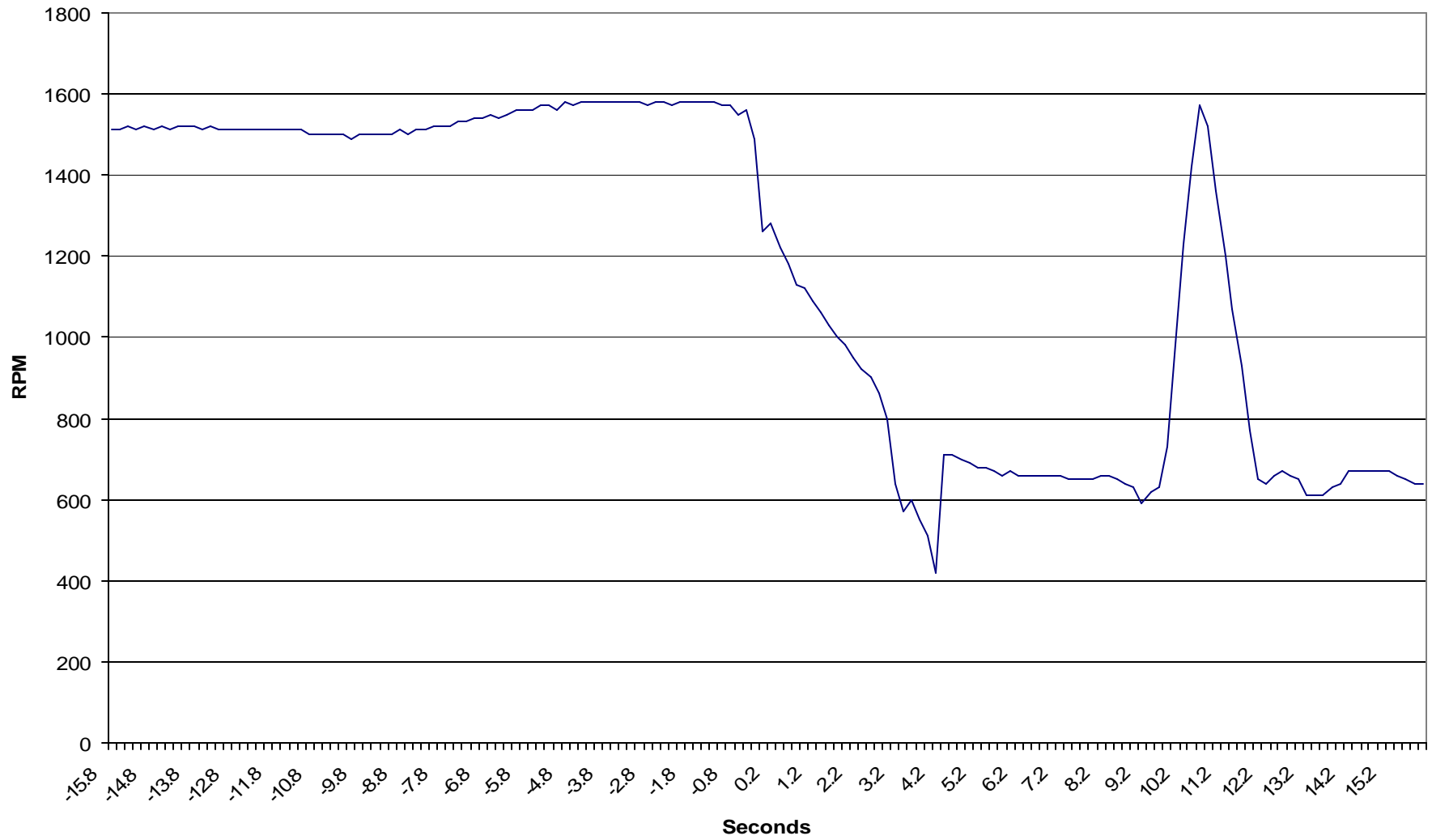
SW1 - Service Brake
SW2- Park Brake

SW3 - Clutch Pushed
SW4 - Engine Brake Low

SW5 - Engine Brake High
SW6 - Cruise Control

SW7 - Key Switch
SW8 - Undefined

6.1.5. Logged Incident Chart No. 2 - Engine RPM



6.1.6.

Logged Incident Chart No. 2 - Vehicle Speed

