EXAMINATION OF DETROIT DIESEL® ELECTRONIC CONTROL -DDEC® ECM-DAILY ACTIVITY & DAILY ENGINE USAGE REPORTS **EVALUATION OF DRIVER'S HOURS OF SERVICE LOGS**

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Stopper & Associates, LLC
Adjunct Staff Instructor
Northwestern University Center for Public Safety
Heavy Truck Crash Reconstruction

DETROIT DIESEL

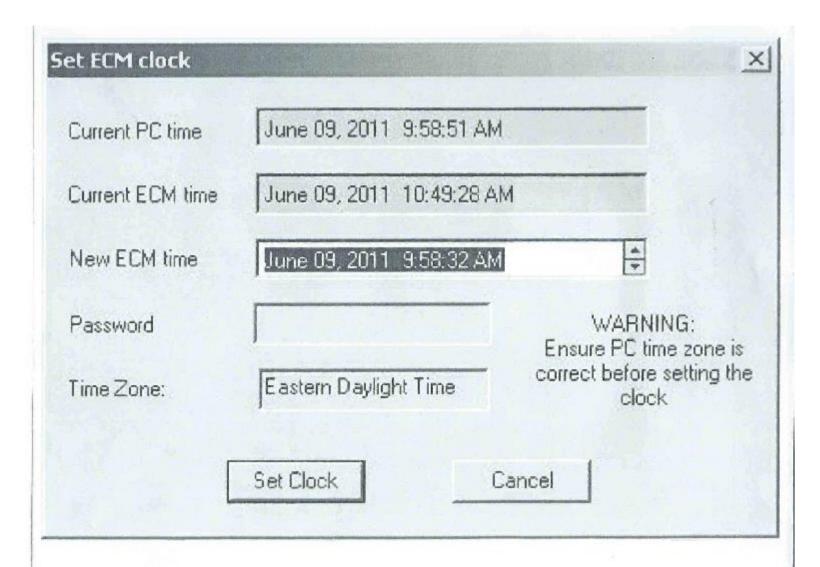
DDEC® Data



DDEC DATA

ABSTRACT

The purpose of this document is to provide instructions on data extraction and analysis from the Detroit Diesel Electronic Controls (DDEC®) system data recording devices. This document is intended for use by individuals who investigate accidents and analyze accident related data.



3.2.4 ECM CLOCK ACCURACY

A real time reading of the ECM clock's date and time can be displayed by selecting "Set ECM Clock" under the "Calibration" dropdown menu. The ECM clock is displayed in the time zone of the PC in use. The date and time of the PC in use is also displayed. It is important to verify that the PC time is accurate prior to checking the ECM clock. Any error found in the ECM clock can be used to correct times reported on DDEC Reports and determine if a Hard Brake or Last Stop record actually occurred at the reported time of the event. The clock drift specification is —4 to +1 hours per year. The display cannot be printed from DDDL. Use "print screen" and paste to WordPad to print.

For an example of the screen, refer to section 5 and see Figure 5-9.

3.1.4 DAILY ENGINE USAGE REPORT

DDEC IV ECMs will capture and record details of the vehicle's activity during the last thirty days. Only days with engine activity are recorded; therefore, the date span may be more than 30 days. The data is displayed in both graphical and tabular format. If graphs do not print properly, try changing printer graphics properties to "Use raster graphics". The data is displayed as the number of minutes in the drive, idle, or off states during two hour intervals throughout the day. The tabular report also lists start time, start odometer, distance traveled, and fuel used for the day. This report may help to determine how long the vehicle was driven before the Hard Brake or Last Stop occurred. For an example of a 12 page Daily Engine Usage Report, refer to section 4 and see Figure 4-23 through Figure 4-34.

Daily Engine Usage Report

- 1) DATE
- 2) START TIME
- 3) ODOMETER READING AT START TIME
- 4) DISTANCE TRAVELED THAT DAY
- 5) FUEL USAGE (Gallons)
- 6) FUEL ECONOMY (Miles Per Gallon)
- 7) AVERAGE SPEED (MPH FOR DAY)
- 8) HOURS & MINUTES DRIVING
- 9) HOURS & MINUTES ENGINE IDLE
- 10)HOURS & MINUTES ENGINE OFF HOURS & MINUTES IN 120 MINUTE (2 HOUR BLOCKS)

DDEC® Reports - Daily Engine Usage

Print Date: Jun 09, 2011 10:02 AM (EDT)

DDC

Date Range: 06/09/2011 to 05/04/2011 (CST) Vehicle ID: 44177

Driver ID:

Date:	06/09/2011
Start Time:	07:24:16 (CST)
Odometer:	723154.9 mi
Distance:	0.0 mi
Fuel:	0.00 gal
Fuel Economy:	0.00 mpg
Average Speed:	0.0 mph

Total(hh:mm)	00:01	00:02	23:57
Hour (CST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	1	1	118
08:00-10:00	0	1	119
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120



06/03/2011		
00:00:00 (CST)		
723154.9 mi		
0.0 mi		
1.00 gal		
0.00 mpg		
0.0 mph		

Total(hh:mm)	00:00	01:50	22:10
Hour (CST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	9	111
06:00-08:00	0	16	104
08:00-10:00	0	84	36
10:00-12:00	0	0	120
12:00-14:00	0	1	119
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120



Date:	06/02/2011	
Start Time:	08:33:30 (CST)	
Odometer:	722545.9 mi	
Distance:	609.0 mi	
Fuel:	106.00 gal	
Fuel Economy:	5.75 mpg	
Average Speed:	54.5 mph	

Total(hh:mm)	11:10	01:46	11:04
Hour (CST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	69	17	34
10:00-12:00	92	16	12
12:00-14:00	108	12	0
14:00-16:00	115	5	0
16:00-18:00	117	3	0
18:00-20:00	90	12	18
20:00-22:00	79	41	0
22:00-24:00	0	0	120

DDEC -

Daily Engine Usage Report

ECM DOWNLOAD

Mileage is daily starting mileage-

Mileage 6/9/11 **723,154.9 miles** (Day of download)

Mileage 6/3/11 723,154.9 miles

Mileage 6/2/11 **722,545.9 + 609.0** (miles driven that day) = **723,154.9 miles**

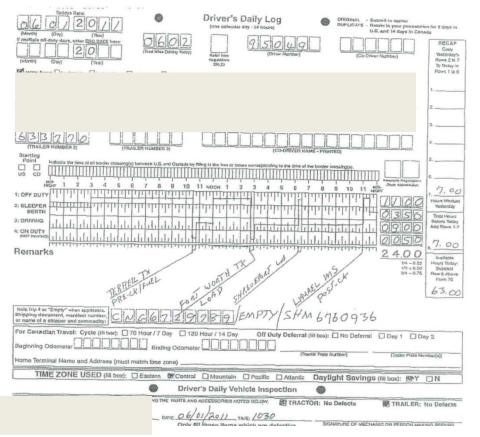
Trip 6/1-2/2011



June 1, 2011 593 miles / 11:08 driving time



6/01/2011



Date:	06/01/2011
Start Time:	01:44:47 (CST)
Odometer:	721920.6 mi
Distance:	625.3 mi
Fuel:	103.75 gal
Fuel Economy:	6.03 mpg
Average Speed:	59.5 mph

Total(hh:mm)	10:31	02:19	11:10
Hour (CST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	30	51	39
04:00-06:00	3	17	100
06:00-08:00	0	0	120
08:00-10:00	0	0	120
10:00-12:00	77	0	43
12:00-14:00	22	17	81
14:00-16:00	73	47	0
16:00-18:00	120	0	0
18:00-20:00	114	2	4
20:00-22:00	120	0	0
22:00-24:00	72	5	43

6/01/2011 Todays Date: Oriver's Daily Log (one columnta) day - 24 hours)	
2	
S: CALVING 4: ON DUTY PAOT DESCRIPTION Remarks	.OGGED 0 HOUR DRIVING
DRIVING 33 MINUTES LOGGED SLEEPER BERTH & OFF DUTY Note trip a or "Empty" when applicable. Shipping document, maniflust number, or name of a shipper and commodity: To Hour /7 Day 120 Hour /14 Day	
Home Terminal Name and Address (must match time zone) TIME ZONE USED (fill box): Eastern Contral Mountain Pacific Atlantic Daylight Savings (fill box): Y N	

6/01/2011

10:31 DRIVING (LOGGED 9:00 HOURS DRIVING)

Date:	06/01/2011
Start Time:	01:44:47 (CST)
Odometer:	721920.6 mi
Distance:	625.3 mi
Fuel:	103.75 gal
Fuel Economy:	6.03 mpg
Average Speed:	59.5 mph

Total(hh:mm)	10:31	02:19	11:10
Hour (CST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	30	51	39
04:00-06:00	3	17	100
06:00-08:00	0	0	120
08:00-10:00	0	0	120
10:00-12:00	77	0	43
12:00-14:00	22	17	81
14:00-16:00	73	47	0
16:00-18:00	120	0	0
18:00-20:00	114	2	4
20:00-22:00	120	0	0
22:00-24:00	72	5	43

6/01/2011

-DRIVING 33 MIUNTES -NO 10 HOUR REST PERIOD -NOT LOGGED

Date:	06/01/2011
Start Time:	01:44:47 (CST)
Odometer:	721920.6 mi
Distance:	625.3 mi
Fuel:	103.75 gal
Fuel Economy:	6.03 mpg
Average Speed:	59.5 mph

Total(hh:mm)	10:31	02:19	11:10
Hour (CST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	30	51	39
04:00-06:00	3	17	100
06:00-08:00	0	0	120
08:00-10:00	0	0	120
10:00-12:00	77	0	43
12:00-14:00	22	17	81
14:00-16:00	73	47	0
16:00-18:00	120	0	0
18:00-20:00	114	2	4
20:00-22:00	120	0	0
22:00-24:00	72	5	43

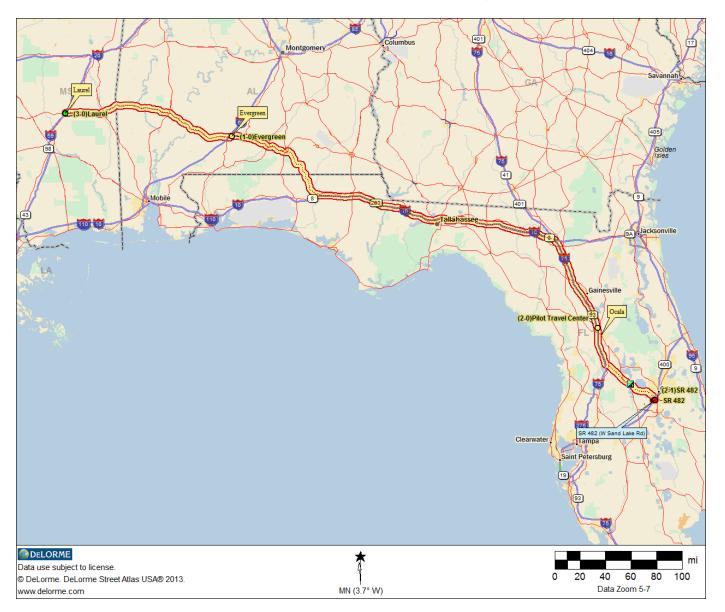
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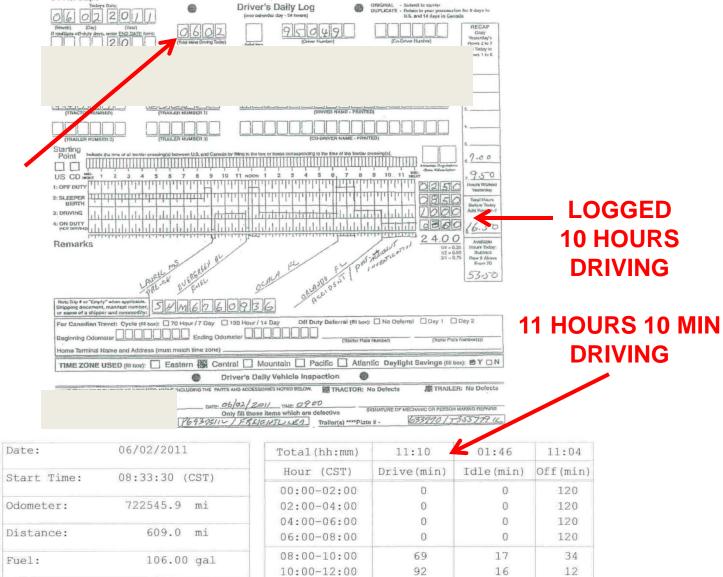
ON DUTY TIME

June 2, 2011 594 miles / 11:35 driving time



6/02/2011

LOGGED 602 MILES (AVERAGE 60 MPH)



Driver's Daily Log

06/02/2011
08:33:30 (CST)
722545.9 mi
609.0 mi
106.00 gal
5.75 mpg
54.5 mph

Total(hh:mm)	11:10	01:46	11:04
Hour (CST)	Drive(min)	Idle(min)	Off (min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	69	17	34
10:00-12:00	92	16	12
12:00-14:00	108	12	0
14:00-16:00	115	5	0
16:00-18:00	117	3	0
18:00-20:00	90	12	18
20:00-22:00	79	41	0
22:00-24:00	0	0	120

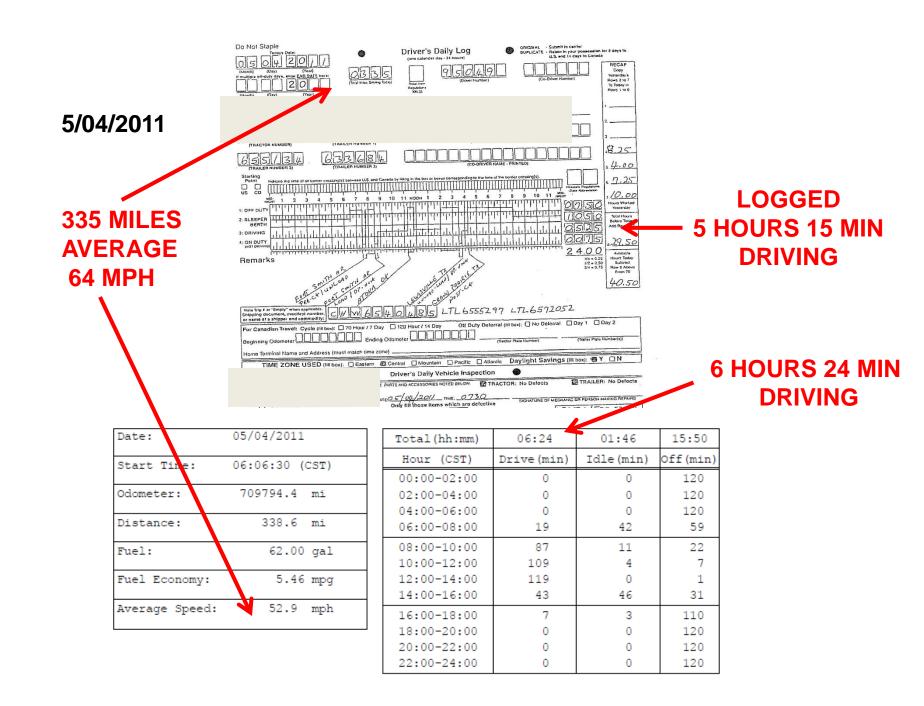
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(TRACTOR MUMBER) (TRAILER HUMBER 1) (TRAILER HUMBER 2) (TRAILER NUMBER 3) Starting	(DRIVER NAME - PRINTED) (CO-DRIVER NAME - PRINTED)	1
US CD NOT 2 3 4 5 6 7 6 9 10 1: OFF DUTY 2: SLEEPER SERTH 3: DRIVING 4: ON DUTY PROT DITYPOOL	10 025 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Hours Worked Yusturday Tocal Hours Busine Tockey Available Hours Tockey Available Hours Tockey DRIVING
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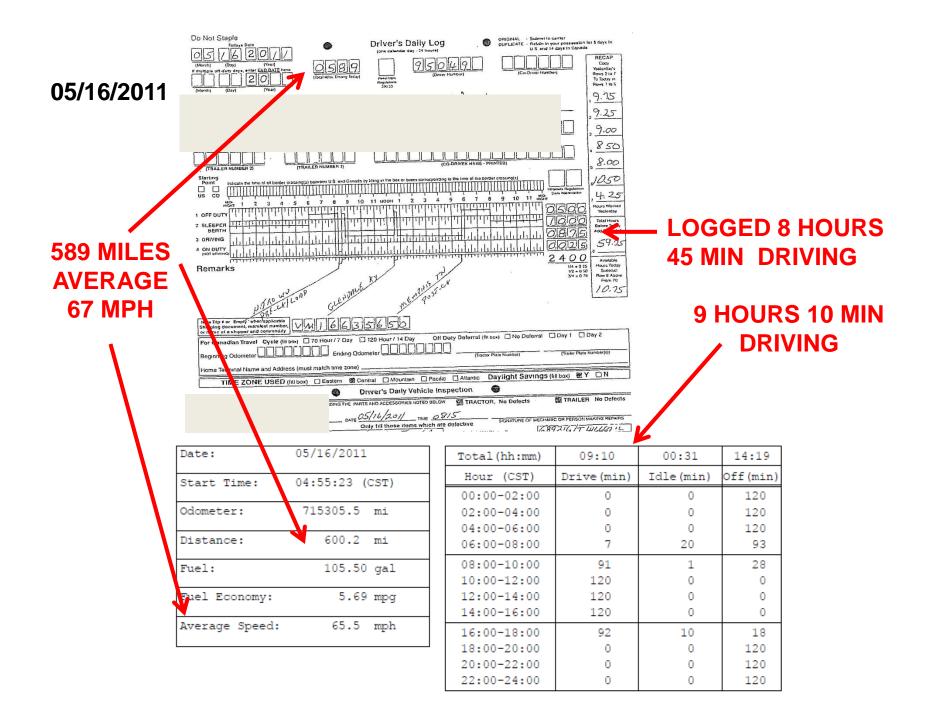
11 HOURS 10 MIN DRIVING

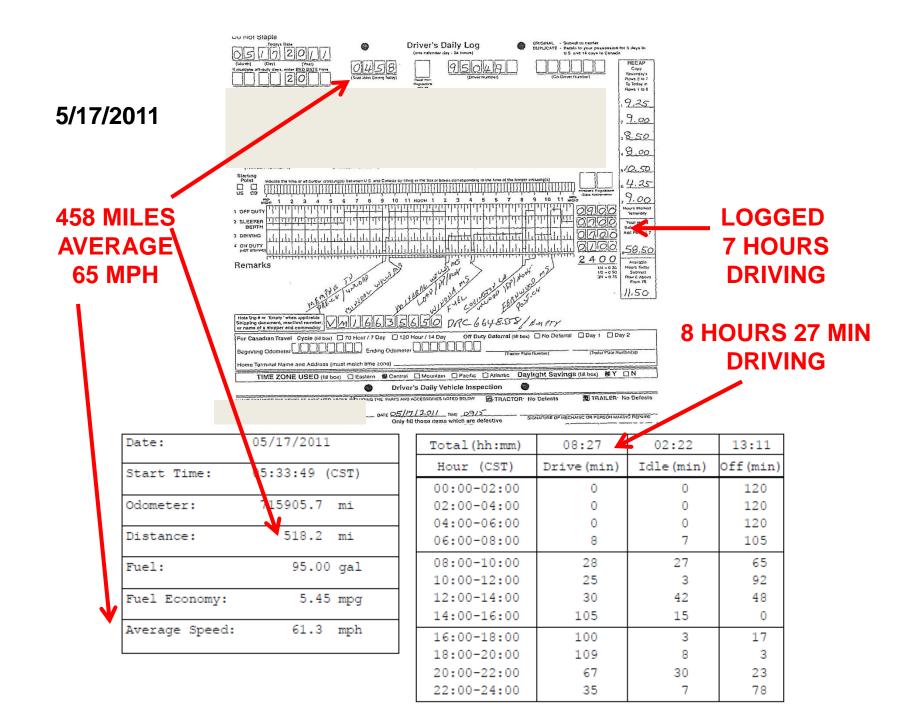


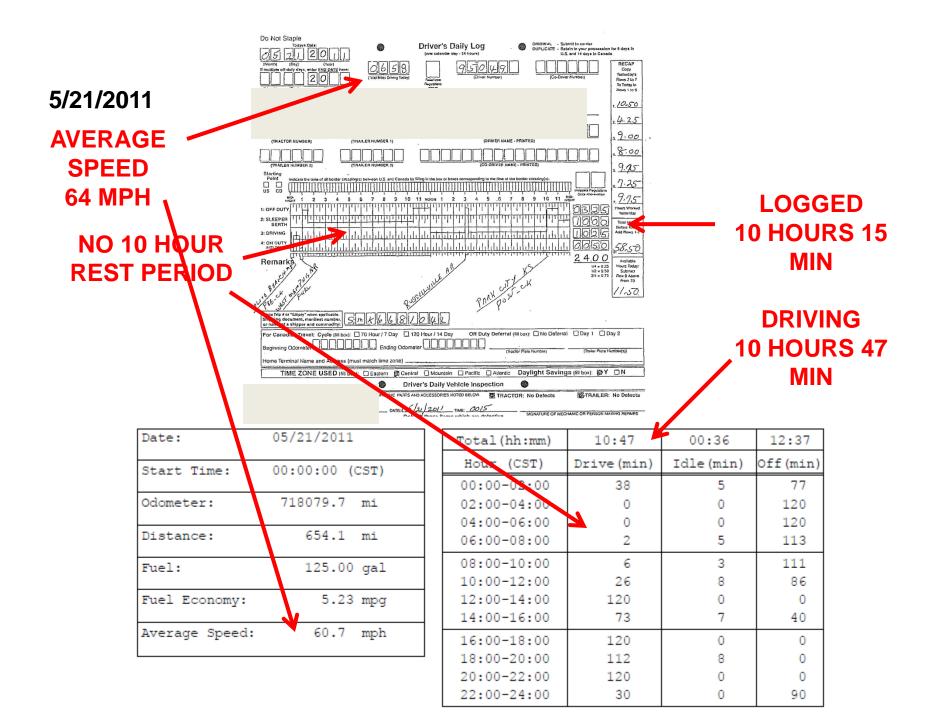
06/02/2011
08:33:30 (CST)
722545.9 mi
609.0 mi
106.00 gal
5.75 mpg
54.5 mph

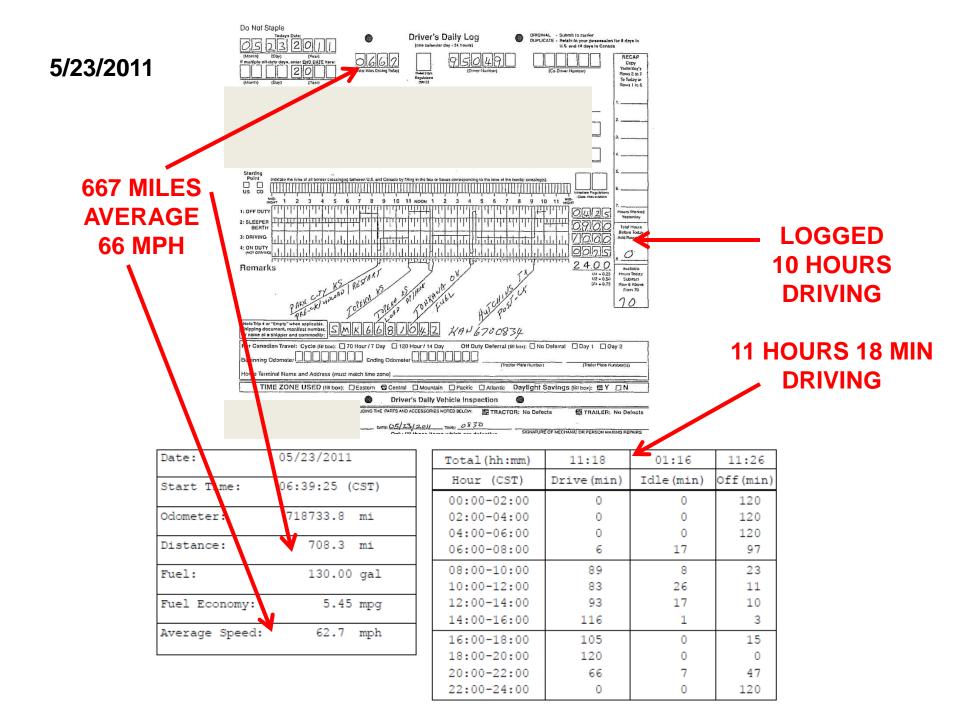
Total(hh:mm)	11:10	01:46	11:04
Hour (CST)	Drive(min)	Idle(min)	Off (min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	69	17	34
10:00-12:00	92	16	12
12:00-14:00	108	12	0
14:00-16:00	115	5	0
16:00-18:00	117	3	0
18:00-20:00	90	12	18
20:00-22:00	79	41	0
22:00-24:00	0	0	120

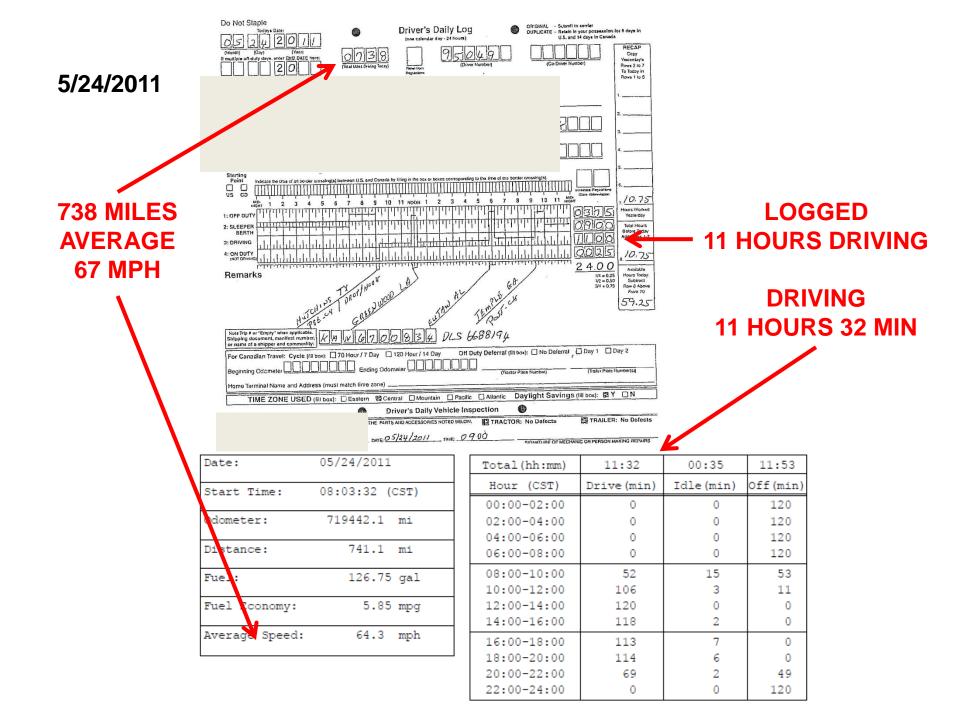


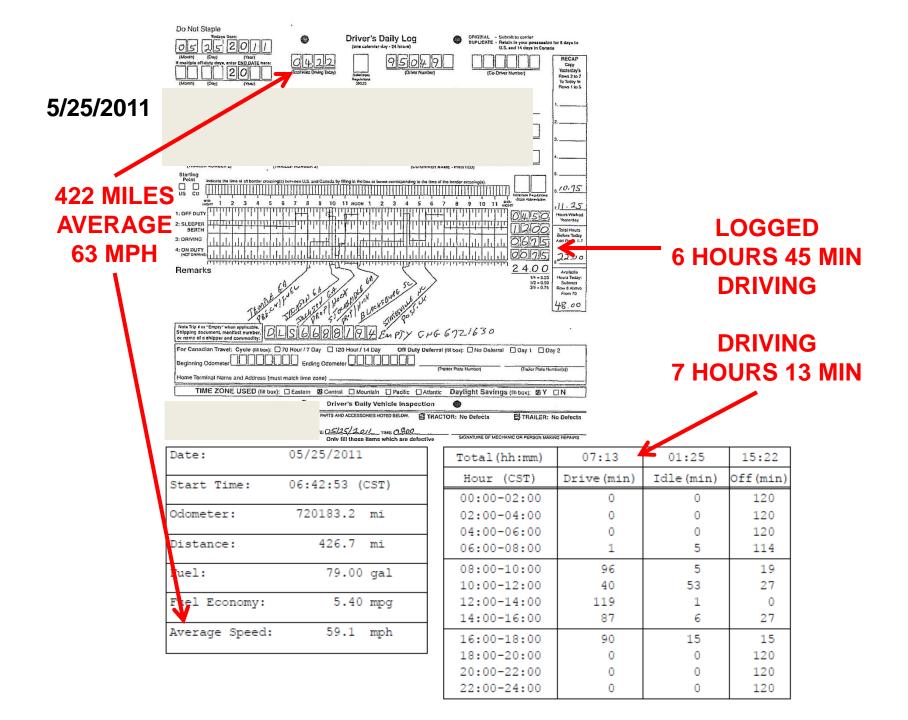


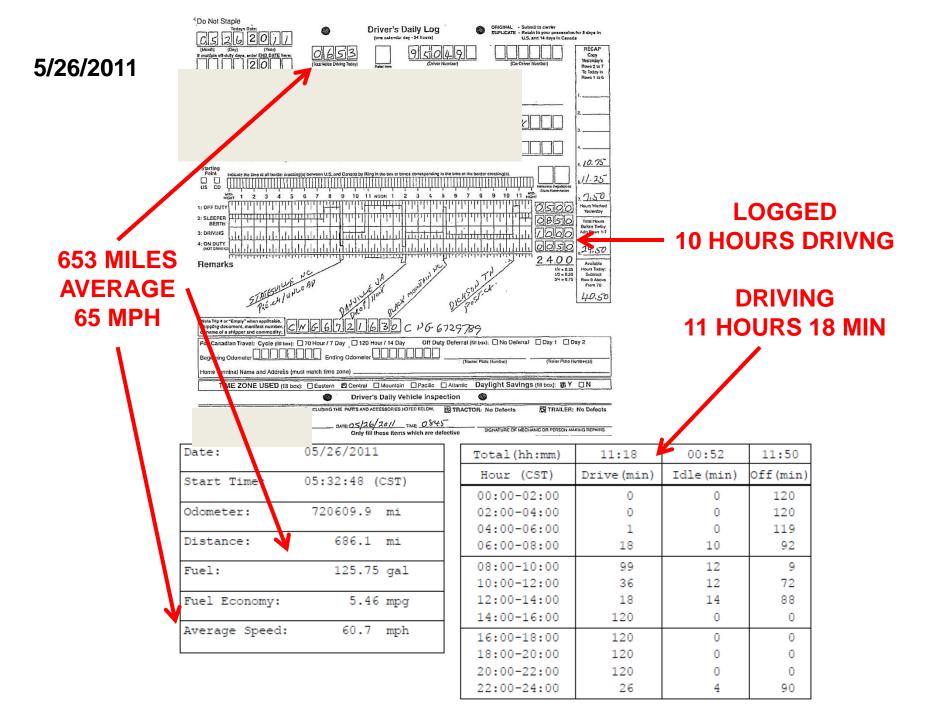


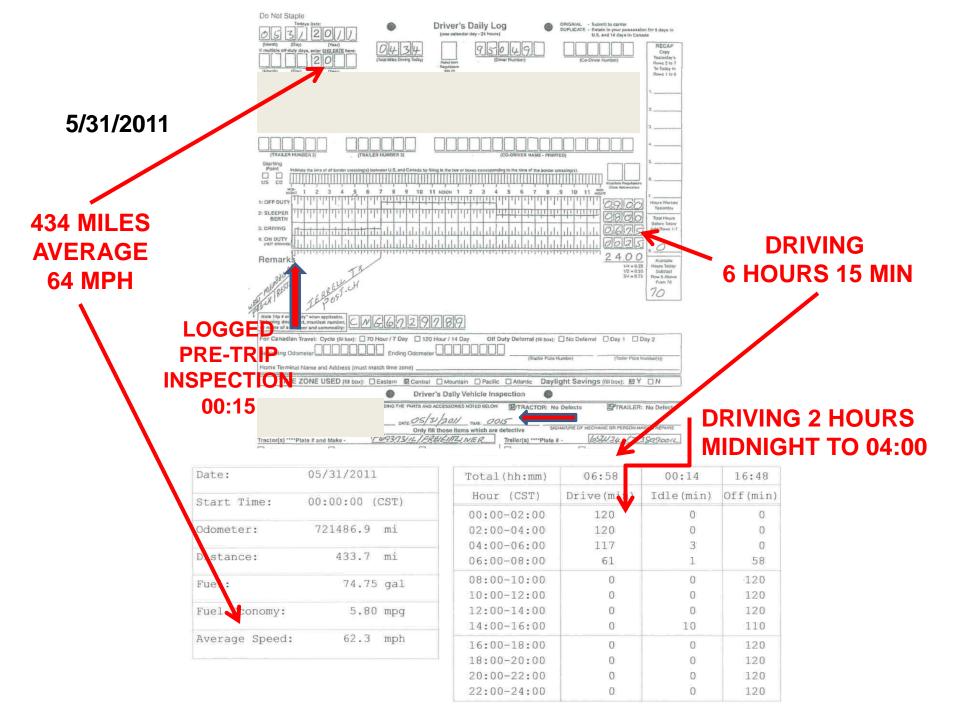












49 CFR §385.3 Definitions.

Safety management controls means the systems, policies programs, practices, and procedures used by a motor carrier to ensure compliance with applicable safety and hazardous materials regulations, which ensure the safe movement of products and passengers through the transportation system, and to reduce the risk of highway accidents and hazardous materials incidents resulting in fatalities, injuries, and property damage.

- (a) No motor carrier shall permit or require any driver used by it to drive a propertycarrying commercial motor vehicle, nor shall any such driver drive a property-carrying commercial motor vehicle:
- (a)(1) More than 11 cumulative hours following 10 consecutive hours off duty; or

(a)(2) For any period after the end of the 14th hour after coming on duty following 10 consecutive hours off duty

(k) Retention of driver's record of duty status. (1) Each motor carrier shall maintain records of duty status and all supporting documents for each driver it employs for a period of six months from the date of receipt.

(k)(2) The driver shall retain a copy of each record of duty status for the previous 7 consecutive days which shall be in his/her possession and available for inspection while on duty.

49 CFR §390.35 Certificates, reports, and records: falsification, reproduction, or alteration.

No motor carrier, its agents, officers, representatives, or employees shall make or cause to make

- (a) A fraudulent or intentionally false statement on any application, certificate, report, or record required by Part 325 of subchapter A or this subchapter;
- (b) A fraudulent or intentionally false entry on any application, certificate, report, or record required to be used, completed, or retained, to comply with any requirement of this subchapter or Part 325 of Subchapter A; or
- (c) A reproduction, for fraudulent purposes, of any application, certificate, report, or record required by this subchapter or Part 325 of Subchapter A.

49 CFR §390.37 Violation and penalty.

Any person who violates the rules set forth in this subchapter or Part 325 of Subchapter A may be subject to civil or criminal penalties.

Federal Register / Vol. 62, No. 65 / Friday, April 4, 1997 / Rules and Regulations

Question 7: What is the liability of a motor carrier for hours of service violations? Guidance: The carrier is liable for violations of the hours of service regulations if it had or should have had the means by which to detect the violations. Liability under the FMCSRs does not depend upon actual knowledge of the violations.

Question 8: Are carriers liable for the actions of their employees even though the carrier contends that it did not require or permit the violations to occur? Guidance: Yes. Carriers are liable for the actions of their employees. Neither intent to commit, nor actual knowledge of, a violation is a necessary element of that liability. Carriers "permit" violations of the hours of service regulations by their employees if they fail to have in place management systems that effectively prevent such violations.

Question 21: What is the carrier's liability when its drivers falsify records of duty status?

Guidance: A carrier is liable both for the actions of its drivers in submitting false documents and for its own actions in accepting false documents. Motor carriers have a duty to require drivers to observe the FMCSRs.

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Federal Register 04APR1997 Page 16424

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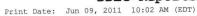
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Federal Register 04APR1997 Page 16426

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Federal Register 04APR1997 Page 16426



Distance

DDC		Month: Vehicle ID:	May, 2011 (CST) 44177
,		Driver ID: Odometer:	723154.9 mi
Distance	13441.5 mi	Time	262:01:27

Fuel Fuel Economy Avg Drive Load Avg Vehicle Speed	2308.75 5.82 65 61.5	gal mpg %	Fuel Consumption Idle Time Idle Percent Idle Fuel	8.81 43:23:32 16.56 30.88	%
Driving Time Driving Percent	218:37:55 83.44 2277.88	%	VSG(PTO) Time VSG(PTO) Percent VSG(PTO) Fuel	0:00:00 0.00 0.00	8
Driving Fuel Driving Economy	5.90		Stop Idle Time	31:34:36	
Vehicle Speed Limiti Time Percent	ng 0:00:02 0.00		Stop Idle Percent Stop Idle Fuel	12.0 21.13	gal

Distance Fuel	0.0 mi 0.00 gal	Over Rev Limit Count	1800 rpm 37 0:08:08
Top Gear	270 15 40	Time Percent	0.05 %
Time Percent Distance	178:15:49 81.54 % 12120.3 mi	Highest RPM Occurred 05/26/2	2341 rpm 11 17:19:45 (CST)

Fuel	1964.00 gai		
		Diag. Records	3
Top Gear - 1		Hard Brake Count	10
Time	16:20:25	Brake Count	2094
Percent	7.47 %	Eng. Brake Time	2:13:14
Distance	815.8 mi		

Fuel	178.63 gal	Optimized Idle Time	
1401	2.0.00	Active	0:00:00
Cruise		Run	0:00:00
Time	63:06:07	Battery	0:00:00
Percent	28.86 %	Engine Temp.	0:00:00
Distance	4385.9 mi	Thermostat	0:00:00
Fuel	752.25 gal	Extended Idle	0:00:00
	Turbuch Consultati Passara	Continuous	0:00:00

op Gear Cruise		
Time	63:02:51	Optimized Idle Battery Charging Run Time
Percent	28.84 %	Normal Starts 0
Distance	4383.3 mi	Continuous Run Starts 0
Fuel	751.25 gal	Alternate Battery Time Starts

eeding A(>=66 mph and <71 mph))	Fan On Time	
Count 7849		Total Time	0:00:01
Time 53:33:29		Engine System	0:00:00
Percent 24.50	8	Manual	0:00:01
eeding B(>=71 mph)		A/C	0:00:00
Count 4156			
Fime 63:39:33		Pump On Time	
Percent 29.12	8	Time	0:00:00
		Distance	0.0 mi
ghest Speed 86.0	mph	Fuel	0.00 gal

ighest Sp Occurred		86.0 15:40:48		Fuel	0.00	9
OCCULLEC	00/1//12	. 10.10.10	(00-7	Engine Utilization	35.22	5
oasting !		0:00:53		Vehicle Utilization	29.39	5

MONTHLY HIGHEST SPEED

060911AA.XTR Engine S/N: 0000846472

ECM S/W Version: 14.23

Version 6.3

Page 2

MONTHLY HIGH SPEED REPORT

Print Date: Jun 09, 2011 10:02 AM (DT)	
DDC	Month: May, 2011 (CST Vehicle ID: 44177 Driver ID: Odometer: 723154.9 mi	')
Distance 13441.5 mi Fuel 2308.75 gal Fuel Economy 5.82 mpg Avg Drive Load 65 % Avg Vehicle Speed 61.5 mph	Idle Time 43:23: Idle Percent 16.	81 gal/1
Driving Time 218:37:55		00 % 00 gal

Highest Speed

86.0 mph Occurred 05/17/11 15:40:48 (CST)

Time	63:06:07		Battery	0:00:00	
Percent	28.86		Engine Temp.	0:00:00	
Distance	4385.9		Thermostat	0:00:00	
Fuel	752.25	gal	Extended Idle Continuous	0:00:00	
Top Gear Cruise				122 E	
Time	63:02:51		Optimized Idle Batte		Run Ti
Percent	28.84		Normal Starts	0	
Distance	4383.3		Continuous Run Sta		
Fuel	751.25	gal	Alternate Battery	Time Starts	
Speeding A(>=66 m	ph and <71 mph)		Fan On Time		
Count	7849		Total Time	0:00:01	
Time	53:33:29		Engine System	0:00:00	
Percent	24.50	8	Manual	0:00:01	
Speeding B(>=71 m			A/C	0:00:00	
Count	4156				
Time	63:39:33		Pump On Time		
Percent	29.12	8	Time	0:00:00	
		- 10	Distance	0.0	
Highest Speed	86.0		Fuel	0.00	gal
Occurred 05/	17/11 15:40:48	(CST)			
			Engine Utilization		
Coasting Time	0:00:53		Vehicle Utilization	29.39	8
Coasting Percent	0.01	8			
		0846472 EC			

Print Date: Jun 09, 2011 10:02 AM (EDT)

DDC			Month: April Vehicle ID: 4417 Driver ID:	, 2011 (CST) 7	
,			Odometer: 723154	.9 mi	
Distance	11985.9	mi	Time	231:53:20	
Fuel	2029.63	gal	Fuel Consumption	8.75 ga	1/h
Fuel Economy	5.91	mpq	Idle Time	34:57:04	
Avg Drive Load	65	8	Idle Percent	15.07 %	
Avg Vehicle Speed	60.9	mph	Idle Fuel	22.75 ga	1
Driving Time	196:56:16		VSG(PTO) Time	0:00:00	
Driving Percent	84.93		VSG(PTO) Percent	0.00 %	
Driving Fuel	2006.88	gal	VSG(PTO) Fuel	0.00 ga	1
Driving Economy	5.97				
			Stop Idle Time	24:06:05	
Vehicle Speed Limit:	ing		Stop Idle Percent	10.39 %	
Time	0:00:00		Stop Idle Fuel	14.75 ga	1
Percent	0.00	8			
Distance	0.0	mi	Over Rev Limit	1800 rp	m
Fuel	0.00	gal	Count	17	
		9 T X	Time	0:02:37	
Top Gear			Percent	0.02 %	
Time	161:06:53				
Percent	81.81	8	Highest RPM	2503 rp	
Distance	10846.7	mi	Occurred 04/01/	11 17:58:09 (0	ST)
Fuel	1747.63	gal			
			Diag. Records	30	
Top Gear - 1			Hard Brake Count	8	

Highest Speed

82.5 mph Occurred 04/14/11 15:11:09 (CST)

rercent	T1.5T P	MOTHER DEALES	
Distance	2361.2 mi	Continuous Run Star	
Fuel	400.38 gal	Alternate Battery T	ime Starts
Speeding A(>=66 mp	h and <71 mph)	Fan On Time	
Count	7783	Total Time	0:00:00
Time	50:08:28	Engine System	0:00:00
Percent	25.46 %	Manual	0:00:00
Speeding B(>=71 mp	h)	A/C	0:00:00
Count	4847		
Time	54:29:02	Pump On Time	
Percent	27.67 %	Time	0:00:00
		Distance	0.0 mi
Highest Speed	82.5 mph	Fuel	0.00 gal
Occurred 04/1	4/11 15:11:09 (CST)		
		Engine Utilization	32.21 %
Coasting Time	0:00:00	Vehicle Utilization	27.35 %
Coasting Percent	0.00 %		

DDC ,		Partial Month: June, 2011 (CST) Vehicle ID: 44177 Driver ID: Odometer: 723154.9 mi		
		Odometer: 723134	. 9 III.	
D. L.	1234.3 mi	Time	27:48:01	
Distance	212.50 gal	Fuel Consumption	7.64 gal/h	
Fuel	5.81 mpg	Idle Time	5:59:25	
Fuel Economy	67 %	Idle Percent	21.55 %	
Avg Drive Load Avg Vehicle Speed	56.6 mph	Idle Fuel	4.63 gal	
Avg venicie bpeca				
Driving Time	21:48:36	VSG(PTO) Time	0:00:00	
Driving Percent	78.45 %	VSG(PTO) Percent	0.00 %	
Driving Fuel	207.88 gal	VSG(PTO) Fuel	0.00 gal	
Driving Economy	5.94 mpg			
DIIII =====		Stop Idle Time	4:44:20	
Vehicle Speed Limit:	ing	Stop Idle Percent	17.05 %	
Time	0:00:00	Stop Idle Fuel	3.38 gal	
Percent	0.00 %			
Distance	0.0 mi	Over Rev Limit	1800 rpm	
Fuel	0.00 gal	Count	1	
2401		Time	0:00:09	
Top Gear		Percent	0.01 %	
Time	15:47:01			
Percent	72.37 %	Highest RPM	2275 rpm	
Distance	1033.3 mi	Occurred 06/02/	/11 13:08:23 (CST)	
Fuel	165.50 gal			
		Dian Deservable	0	

Highest Speed

ghest Speed 79.0 mph Occurred 06/01/11 20:05:38 (CST)

Time	2:57:47		Optimized Idle Batte	ry Charging	Run 7
Percent	13.59	%	Normal Starts	0	
Distance	214.3	mi	Continuous Run Sta	rts 0	
Fuel	37.38	gal	Alternate Battery	Time Starts	
Speeding A(>=66 mg	oh and <71 mph)		Fan On Time		
Count	629		Total Time	0:00:00	
Time	3:31:45		Engine System	0:00:00	
Percent	16.18	8	Manual	0:00:00	
Speeding B(>=71 mp	oh)		A/C	0:00:00	
Count	383				
Time	4:38:06		Pump On Time		
Percent	21.25	8	Time	0:00:00	
			Distance	0.0	mi
Highest Speed	79.0	mph	Fuel	0.00	gal
	01/11 20:05:38				
000000000000000000000000000000000000000		201 (0)	Engine Utilization	13.70	8
Coasting Time	0:00:00		Vehicle Utilization	10.75	8
Coasting Percent	0.00	96			

DDC ,		Partial Month: June, 2011 (CST) Vehicle ID: 44177 Driver ID: Odometer: 723154.9 mi		
		Odometer: 723134	. 9 III.	
D. L.	1234.3 mi	Time	27:48:01	
Distance	212.50 gal	Fuel Consumption	7.64 gal/h	
Fuel	5.81 mpg	Idle Time	5:59:25	
Fuel Economy	67 %	Idle Percent	21.55 %	
Avg Drive Load Avg Vehicle Speed	56.6 mph	Idle Fuel	4.63 gal	
Avg venicie bpeca				
Driving Time	21:48:36	VSG(PTO) Time	0:00:00	
Driving Percent	78.45 %	VSG(PTO) Percent	0.00 %	
Driving Fuel	207.88 gal	VSG(PTO) Fuel	0.00 gal	
Driving Economy	5.94 mpg			
DIIII =====		Stop Idle Time	4:44:20	
Vehicle Speed Limit:	ing	Stop Idle Percent	17.05 %	
Time	0:00:00	Stop Idle Fuel	3.38 gal	
Percent	0.00 %			
Distance	0.0 mi	Over Rev Limit	1800 rpm	
Fuel	0.00 gal	Count	1	
2401		Time	0:00:09	
Top Gear		Percent	0.01 %	
Time	15:47:01			
Percent	72.37 %	Highest RPM	2275 rpm	
Distance	1033.3 mi	Occurred 06/02/	/11 13:08:23 (CST)	
Fuel	165.50 gal			
		Dian Deservable	0	

Highest Speed

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Time	2:57:47		Optimized Idle Batte:	ry Charging	Run 7
Percent	13.59	%	Normal Starts	0	
Distance	214.3 1	mi	Continuous Run Sta:	rts 0	
Fuel	37.38 gal		Alternate Battery Time Starts		
Speeding A(>=66 mph and <71 mph)			Fan On Time		
Count	629		Total Time	0:00:00	
Time	3:31:45		Engine System	0:00:00	
Percent	16.18	8	Manual	0:00:00	
Speeding B(>=71 mph)			A/C	0:00:00	
Count	383				
Time	4:38:06		Pump On Time		
Percent	21.25	96	Time	0:00:00	
10100110			Distance	0.0	mi
Highest Speed	79.0	mph	Fuel	0.00	gal
	01/11 20:05:38				
00001100		/	Engine Utilization	13.70	용
Coasting Time	0:00:00		Vehicle Utilization	10.75	8
Coasting Percent	0.00	9.			

6/01/2011 Todays Date: Driver's Daily Log DRIGINAL - Submit to corrier DUPLICATE - Fletcht in your possession for a days in U.S. and 14 days in Canada If multiple off-duty days, RECAP Copy Yusterday's Flight Lider (Month) Hore Aggiore Rows 2 to 7 (Year) To Today in Flows 1 to 6 Highest Speed 06/01/11 20:05:38 (CST) Occurred (THAILER NUMBER 2) (TRAILER HUMBER 3) (CO-DRIVER NAME - PRINTED) Point Indicate the time of all border creasing(s) between U.S. and Canada by fulling in the box or boxes correspon CD 11 NOON 11 MEGEGE 7.00 1: OFF DUTY Hours Worked 2: SLEEPER Yistaniay LOGGED BERTH Total Hours 3: DRIVING letons Today **9.0 HOURS** 4: ON DUTY 7.00 **DRIVING** DRIVING 33 MINUTES Austlasta 1/4 - 0.25 Heyra Today: 1/2 = 0.50Submics **LOGGED SLEEPER** Plow & Above From 70 & OFF DUT 63.00 Note Trip & or "Empty" when applicable. Shipping document, manifest number. or name of a shipper and commodity: For Canadian Travel: Cycle (hi box): 70 Hour / 7 Day 120 Hour / 14 Day Off Duty Deferral (IIII box): No Deferral Day 1 Day 2 (Tractor Prote Number) [Imlint Plats Number(e)] Home Terminal Name and Address (must match time zone) TIME ZONE USED (fill box): Deactorn & Contral Mountain Deactile Atlantic Daylight Savings (fill box): BY ON Driver's Daily Vehicle Inspection THE PARTS AND ACCESSORIES NOTED BELOW. 图 THACTOR: No Defects TRAILER: No Defects Only fill those items which are defective SIGNATURE OF MECHANIC OR PERSON MAKING REPAIRS