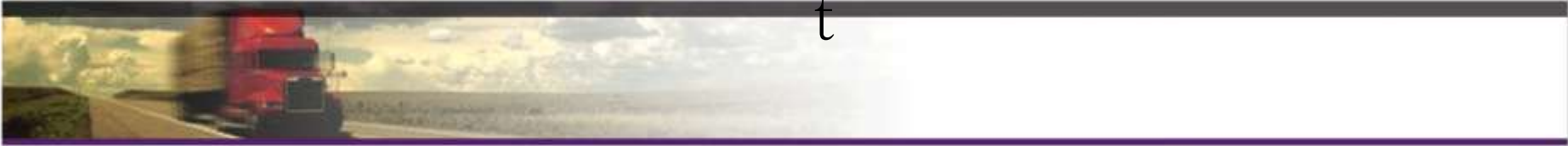




Inspection • Track • Know
t





PrePass Ground Traffic Control (GTC) Powered by Zonar is a groundbreaking electronic inspection, tracking, and management solution for fleet operations. PrePass GTC includes four easy to use interrelated components to provide a surprisingly affordable solution



Electronic Vehicle Inspection Report (EVIR)



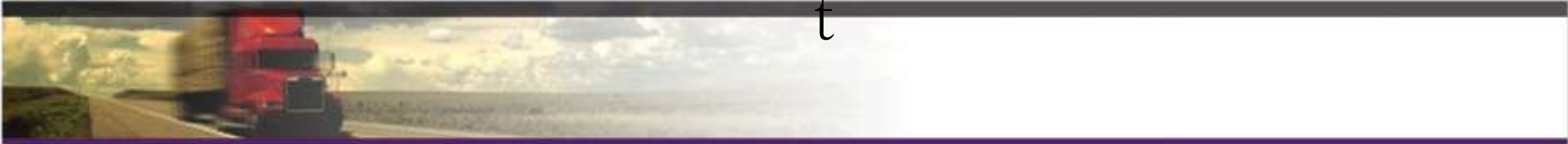
High-Definition GPS (HD-GPS)



V2J High-Definition GPS / JBus System

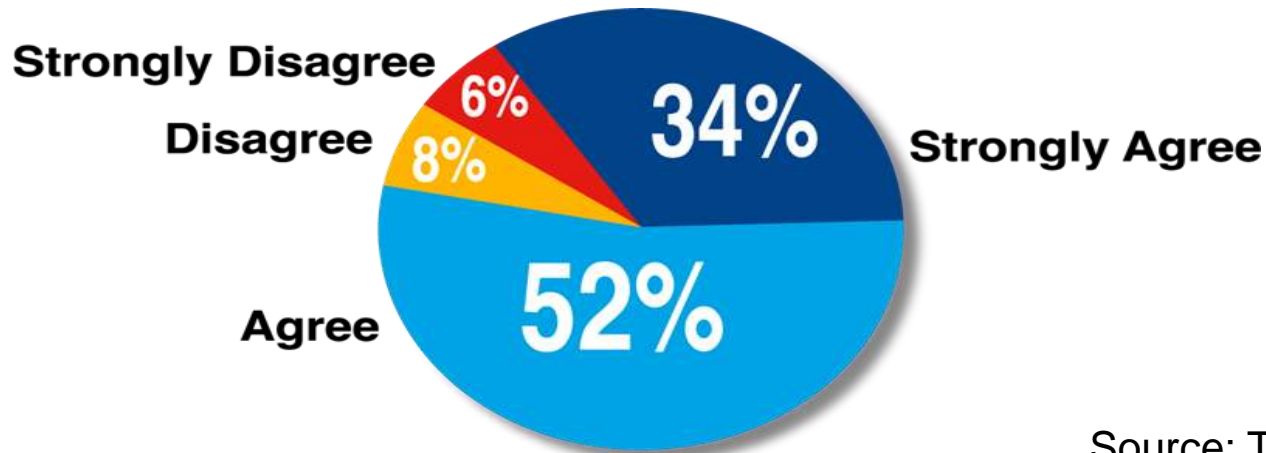
Ground Traffic Control



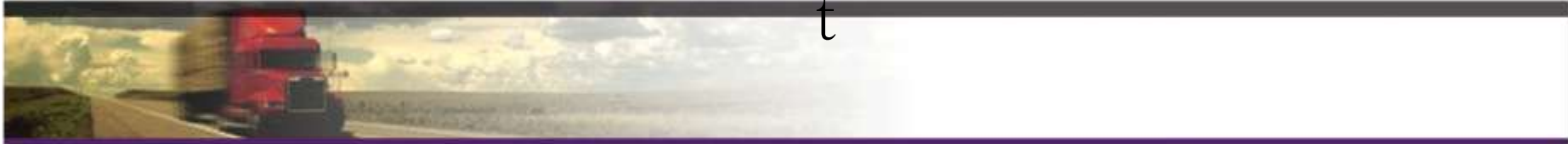


Challenge: Inspection Compliance

Pre-Trip and Post-Trip Inspections Are
Often Performed **Inadequately**



Source: Transportation News

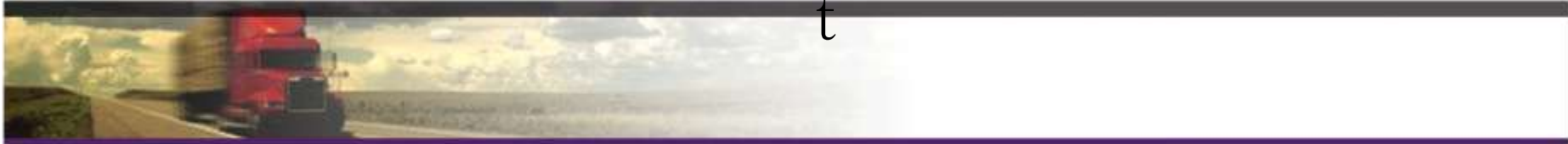


Solution: Electronic Verified Inspection Report (EVIR)[™]

As Easy as Tag, Inspect, Transmit

- Replaces Manual (Paper) Inspections
- Pre / Post Trip Completed with RFID Tags and Handheld
- Data Easily & Immediately Transmitted





Benefits of Electronic Verified Inspection Report (EVIR)TM

- Verified Visual Inspection
- Safety and Compliance Management Tool
- All Events Date & Time Stamped
- Electronic Data Collection
- ★ Federal and State Approved



Inspection Track Knowledge



EVIR – How it works

RFID tags that are placed in key locations around the vehicle.

These RFID tags contain specific information about the components within each zone that need to be inspected.

As you see in the picture... drivers conduct the inspections by placing the reader within a few inches of the RFID tag and then indicate the condition of various components within each zone with simple one-handed push button responses



Inspections for asset: HELP Vehicle 2009

Type: **All Types**
 TRACTOR PRE
 TRACTOR POST
 TRAILER PICK/DROP
 TRACTOR PRE-TRIP
 TRACTOR POST-TRIP

Assets: HELP Vehicle 2009

Attribute Filter: Select Filters

Attributes: Select Attributes

Date Options: - Use Date Range -
 From: 2009 August 1
 To: 2009 August 13

Include Only:
 Unrepaired
 Unverified
 Incomplete

Clear Asset Filter

Report # Go

Row 1 to 9 of 9
Page 1

No.	Date	Type	Status	Asset No.	Driver	Defects	EVIR	Print
1	Thu 13 Aug 2009 10:55	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	0/1 defects		
2	Thu 13 Aug 2009 10:36	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	0/1 defects		
3	Wed 05 Aug 2009 22:08	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	2/5 defects		
4	Wed 05 Aug 2009 21:35	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	0/2 defects		
5	Wed 05 Aug 2009 13:45	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	N/A defects		
6	Wed 05 Aug 2009 13:39	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	0/2 defects		
7	Mon 03 Aug 2009 19:37	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	N/A defects		
8	Mon 03 Aug 2009 19:34	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	0/3 defects		
9	Mon 03 Aug 2009 19:32	TRACTOR PRE	!	HELP Vehicle 2009	Driver_2001, Demo	N/A defects		

A More Detailed View Shows the Number of Inspections Completed, the Status, Driver Name, and the Number of Defects Found per Inspection

Individual Inspection Report



EVIR®		Electronic Vehicle Inspection Report		Type: TRACTOR PRE	
Organization pre0517	DOT/NSC No.	Report No. 12	License Plate Number		
Asset No. HELP Vehicle 2009	VIN Number	MFG	In Service 03 Aug 2009	Miles 689	
Inspection Date: Thursday 13 Aug 2009 20:36	Inspection Duration: 00:14:41	Location of EVIR Unknown		Driver Name Driver_2001, Demo	
Assigned Asset Location Unknown					

Asset: HELP Vehicle 2009 (Standard) Timestamp: 20:36:30 (Primary asset)

EACH OF THE FOLLOWING ITEMS (IF EQUIPPED) WERE INSPECTED:

Zone	Time	Components	Defects	Verified
Right Side Engine	20:36:37	Belts, Brakes, Exhaust, Hoses, Leaks, Other, Radiator/fan, Steering Linkage, Suspension, Tire/wheel/lugs	N	Y
Tractor Front	20:39:54	Other, Lighting, Bumper, Hood/fenders/latch, License Plate, Windshield	Y	Y
Left Side Engine	20:44:02	Belts, Brakes, Engine, Leaks, Other, Radiator/fan, Steering Fluid, Strg/box/ Linkage, Suspension, Tire/wheel/lugs	N	Y
Inside Cab	20:45:39	Brake Valves/hnds, Doors/handles, Foot Brake, Gauges & Warnings, Heat/defrost/ac, Lighting, Other, Seats/belts, Steering, Windows/mirrors, Wipers/washer	N	Y
Compliance	20:47:16	Emergency Equip, Hazmat, Ifta, Insurance, Other, Permits, Qualcomm, Registration, Service Due	N	Y
Tractor Left Rear	20:48:39	5th Wheel, Air/electrical, Brakes, Coupling Devices, Fuel Tank/steps, License Plate, Mud Flaps/fenders, Other, Stop/tail/turn, Suspension, Tires/wheels/lugs	N	Y
Tractor Right Rear	20:49:53	5th Wheel, Coupling Devices, Exhaust/muffler, Fuel Tank/steps, Mud Flaps/fenders, Other, Park/svc Brakes, Stop/tail/turn, Suspension, Tire Chains, Tires/wheels/lugs	N	Y

DEFECTS NOTED DURING THIS INSPECTION: (click to repair)

Zone	Component	Condition	Status	Technician:	Repair Date:	Ref No.
Tractor Front	License Plate	Missing	ⓘ			

ACCEPTING INSPECTOR	
ACCEPTING INSPECTOR: Driver_2001, Demo	Next Inspection Date: Thursday 13 Aug 2009 20:55
Driver_2001, Demo has reviewed this EVIR® and acknowledges the certification that all required repairs have been performed.	

Standard (Printer Friendly)	Shop Copy (Printer Friendly)	Print Shop Copies This EVIR® Only (generates PDF file)	Print Shop Copies (generates PDF file)	Print Shop Copies This Asset Only (generates PDF file)
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EVIR®

Organization: pre0517

Asset No.: HELP Vehicle 2009

Inspection Date: Thursday 13 Aug 2009 20:36

Assigned Asset Location: Unknown

Zone	Time	Component
Right Side Engine	20:36:37	Belts, Brake
Tractor Front	20:39:54	Other, Lights
Left Side Engine	20:44:02	Belts, Brake
Inside Cab	20:45:39	Brake Valve
Compliance	20:47:16	Emergency
Tractor Left Rear	20:48:39	5th Wheel, Tires/wheel
Tractor Right Rear	20:49:53	5th Wheel, Tires/wheel

ACCEPTING INSPECTOR: Driver_2001, Demo

Driver_2001, Demo has reviewed this EVIR® and acknowledges

Electronic Vehicle Inspection Report

Zonar Systems® Duration Report - Windows Internet Explorer

Zonar Systems® Duration Report

Inspection Times for Report ID: 12

Event	Time	Elapsed	Duration
Driver Login:	Thursday 13 Aug 2009 20:36	00:00:00	00:00:04
Asset Scan: Help Vehicle 2009	Thursday 13 Aug 2009 20:36	00:00:04	00:00:07
Right Side Engine	Thursday 13 Aug 2009 20:36	00:00:11	00:03:17
Tractor Front	Thursday 13 Aug 2009 20:39	00:03:28	00:04:08
Left Side Engine	Thursday 13 Aug 2009 20:44	00:07:36	00:01:37
Inside Cab	Thursday 13 Aug 2009 20:45	00:09:13	00:01:37
Compliance	Thursday 13 Aug 2009 20:47	00:10:50	00:01:23
Tractor Left Rear	Thursday 13 Aug 2009 20:48	00:12:13	00:01:14
Tractor Right Rear	Thursday 13 Aug 2009 20:49	00:13:27	00:01:14
Inspection Stored:	Thursday 13 Aug 2009 20:51	00:14:41	N/A

Close Window Print Window

© Copyright 2009 © Zonar Systems. All Rights Reserved. Connected to: pre0517
 Zonar and the Zonar Logo are © Zonar Systems. (3604) 877-9423-2647 (fax) 304-679-3382. Time Zone: US Mountain Standard
 Location Filter: All Locations support@zonarsystems.com Version: 2.42.2
 Hardware Filter: N/A Help DB Version: 4.1.8.0

Type: TRACTOR PRE

License Plate Number

Driver Name: Driver_2001, Demo

	Defects	Verified
	N	Y
	Y	Y
	N	Y
Mirrors, Wipers/washer	N	Y
	N	Y
Wipers, Tires/wheels/tugs	N	Y
Chains, Tire Chains,	N	Y

Repair Date: Ref No.

Copies (PDF file) Print Shop Copies This Asset Only (generates PDF file)

Displays "Zone" Duration Times



Open Defects for Asset HELP Board

Back To All Open Defects Show New Defects Only Update Show Defect Details

Row 1 to 11 of 11
Page 1

No.	Date	Zone	Component	Condition	Status	EVIR	Repair	Print	Pending
1	05-Aug-2009	TRACTOR FRONT	BUMPER	BENT	▲	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	03-Aug-2009	TRACTOR LEFT REAR	AIR/ELECTRICAL	BROKEN	●	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	05-Aug-2009	TRACTOR RIGHT REAR	FUEL TANK/STEPS	CAP MISSING	▲	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	05-Aug-2009	TRACTOR RIGHT REAR	EXHAUST/MUFFLER	CRACKED	●	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	03-Aug-2009	INSIDE CAB	LIGHTING	FOG LIGHT BNOF	▲	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	05-Aug-2009	RIGHT SIDE ENGINE	HOSES	LEAKING	▲	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	05-Aug-2009	LEFT SIDE ENGINE	STEERING FLUID	LOW OIL LEVEL	●	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	05-Aug-2009	TRACTOR FRONT	LICENSE PLATE	MISSING	●	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	05-Aug-2009	TRACTOR FRONT	LICENSE PLATE	MISSING	●	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	05-Aug-2009	TRACTOR FRONT	LICENSE PLATE	MISSING	●	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	03-Aug-2009	RIGHT SIDE ENGINE	LEAKS	OIL LEAKS	▲	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Did the above defects require repairs or corrective actions to resolve? Shop Copy Standard

Technician: Ellsworth, Jesse *Required

Ref No. _____ Next Ref. No. (Optional) _____

Repair Notes: Select a Note

- *Required
- Edit Notes
- Above defects corrected
- Above defects need not be corrected for safe operation of it
- Adjust
- Clean
- Engine Overhaul
- Inspect
- Install, New**
- Install, Rebuilt
- Install, Used
- Lubricate

(Hold Ctrl to select multiple)

Additional Notes: (Optional)

Dip Stick Was Missing, replaced

Jesse Ellsworth, certify the indicated defects have been corrected.

Enter Repair Notes for Defects that have been Resolved

EVIR®		Electronic Vehicle Inspection Report		Type: TRACTOR PRE
Organization pre0517	DOT/NSC No.	Report No. 10	License Plate Number	
Asset No. HELP Board	VIN Number	MFG	In Service 03 Aug 2009	Miles 1200
Inspection Date: Wednesday 05 Aug 2009 22:08	Inspection Duration: 00:16:23	Location of EVIR Arizona - 858 E Devon Rd, Gilbert, AZ, 85296-8793		Driver Name Driver_2001, Demo
Assigned Asset Location Unknown				

Asset: HELP Board (Standard) Timestamp: 22:08:50 (Primary asset)

EACH OF THE FOLLOWING ITEMS (IF EQUIPPED) WERE INSPECTED:

Zone	Time	Components	Defects	Verified
Tractor Front	22:09:15	Other, Lighting, Bumper, Hood/fenders/latch, License Plate, Windshield	Y	Y
Right Side Engine	22:12:32	Belts, Brakes, Exhaust, Hoses, Leaks, Other, Radiator/fan, Steering Linkage, Suspension, Tire/wheel/lugs	N	Y
Left Side Engine	22:15:12	Belts, Brakes, Engine, Leaks, Other, Radiator/fan, Steering Fluid, Strg/box/ Linkage, Suspension, Tire/wheel/lugs	Y	Y
Inside Cab	22:17:20	Brake Valves/hnds, Doors/handles, Foot Brake, Gauges & Warnings, Heat/defrost/ac, Lighting, Other, Seats/belts, Steering, Windows/mirrors, Wipers/washer	Y	Y
Compliance	22:19:03	Emergency Equip, Hazmat, Ifta, Insurance, Other, Permits, Qualcomm, Registration, Service Due	N	Y
Tractor Left Rear	22:21:05	5th Wheel, Air/electrical, Brakes, Coupling Devices, Fuel Tank/steps, License Plate, Mud Flaps/fenders, Other, Stop/tail/turn, Suspension, Tires/wheels/lugs	N	Y
Tractor Right Rear	22:23:03	5th Wheel, Coupling Devices, Exhaust/muffler, Fuel Tank/steps, Mud Flaps/fenders, Other, Park/cvc Brakes, Stop/tail/turn, Suspension, Tire Chains, Tires/wheel/lugs	Y	Y

DEFECTS NOTED DURING THIS INSPECTION: (click to repair)

Zone	Component	Condition	Status	Technician:	Repair Date:	Ref No.
Inside Cab	Windows/mirrors	Will Not Raise	⚠	Ellsworth, Jesse	Wednesday 05 Aug 2009 22:57	
Notes: Above defects corrected/ Window Fixed, able to raise						
Jesse Ellsworth certifies these defects or deficiencies were corrected by the above technician.						
Left Side Engine	Steering Fluid	Low Oil Level	⚠	Ellsworth, Jesse	Wednesday 05 Aug 2009 23:01	
Notes: Install, New Dip Stick Was Missing, replaced						
Jesse Ellsworth certifies these defects or deficiencies were corrected by the above technician.						
Tractor Front	License Plate	Missing	⚠			
Tractor Front	License Plate	Missing	⚠			
Tractor Right Rear	Fuel Tank/steps	Cap Missing	⚠			

ACCEPTING INSPECTOR

ACCEPTING INSPECTOR:	Next Inspection Date: N/A
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Standard (Printer Friendly)	Shop Copy (Printer Friendly)	Print Shop Copies This EVIRs Only (generates PDF file)	Print Shop Copies (generates PDF file)	Print Shop Copies This Asset Only (generates PDF file)
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EVIR now displays the resolved defects complete with Technician Notes and Date Repaired



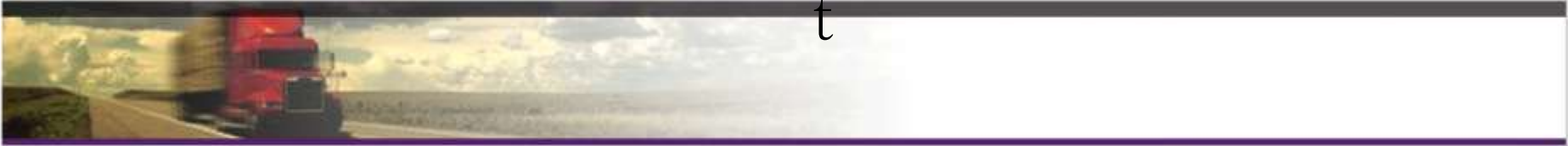
Fleet Inspection Statistics Thursday 13 Aug 2009 21:20

Average Inspection Time:	00:05:28
Maximum Inspection Time:	00:18:40
Minimum Inspection Time:	00:00:28
Total Inspections:	12
Total Defects:	17
Defect Rate:	1.417

Maximum Inspection Time = 18:40

Minimum Inspection Time = :28

Total Inspections = 17



Ground Traffic Control™



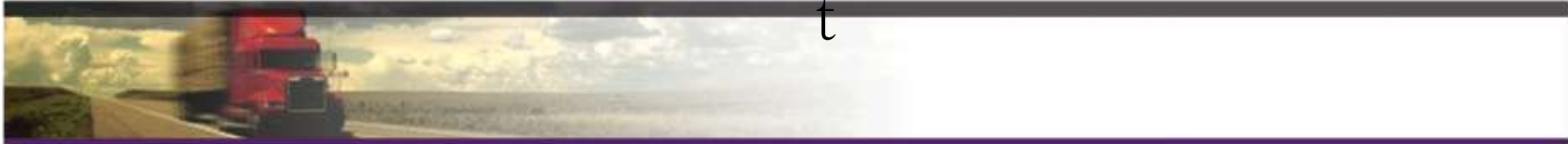
In One Solution, Effortlessly Distill
Data to Quickly Understand

- Asset Utilization, Labor Savings
- Repair Status, Inspection Compliance
- Fuel Consumption and Emissions

Real Answers

Real Time

Real Savings



Benefits of Ground Traffic Control™

- Real Time Data – View 25+ Reports, Giving You Ultimate Visibility into Your Operation
- Respond to Inquiries from Customers, Technicians, or Drivers
- Analyze Inspection Reports from Days, Months, or Years Ago
- Open System – Share Data with Maintenance, Payroll, and Attendance Systems
- Easily Add, Remove, Edit Users
- Track Driver and Asset Certifications





New Safety Measurement System (SMS)

- Focuses on Motor Carriers' & Drivers' Compliance Problems (CSMS & DSMS)





Uses Crash Records and **ALL** Roadside Inspection Violations in Measuring Motor Carrier / Driver Safety Performance (not just out of service violations)

Data Used

- Carriers: 24 Months
- Drivers: 36 Months



SMS Will Focus on 7 Behaviors Linked to Potential Crash Risk

- Unsafe Driving – dangerous or careless operation
- Fatigued Driving – violations of HOS rules
- Driver Fitness – unfit due to lack of training, experience or medical qualifications
- Drug / Alcohol – impaired due to alcohol or drugs
-  Vehicle Maintenance – improper or inadequate maintenance
-  Cargo Related – shifting loads or dropped cargo & unsafe handling of hazardous materials
- Crash Indicator – high frequency and severity of crash involvement



EVIR™ Vehicle OOS Analysis

EVIR™ Vehicle OOS Analysis



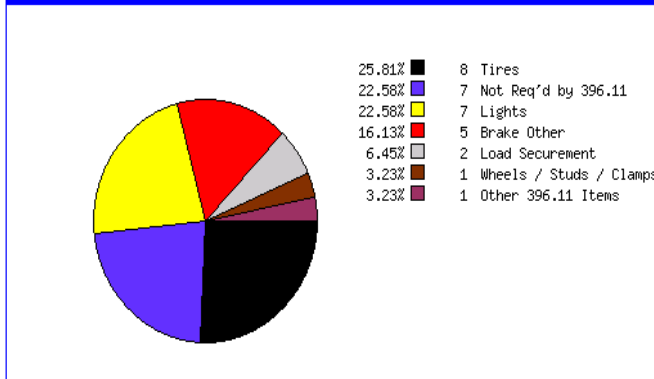
[Click Here to Start Over](#)

[Click Here to Send Someone a Link to This Page](#)

Company Name:
 DOT Number:
 Number of Power Units: **98**
 Number of Drivers: **101**
 MCS-150 Mileage (Year): **10,720,000 (2007)**

Number of Vehicle OOS Inspections: **25**
 Number of Violations: **31**
 Ratio of Violations/Power Unit: **0.316:1**
 EVIR™ Preventable OOS Violations: **26**
 Percentage EVIR™ OOS Violations: **83.87%**

Vehicle OOS by Category for DOT



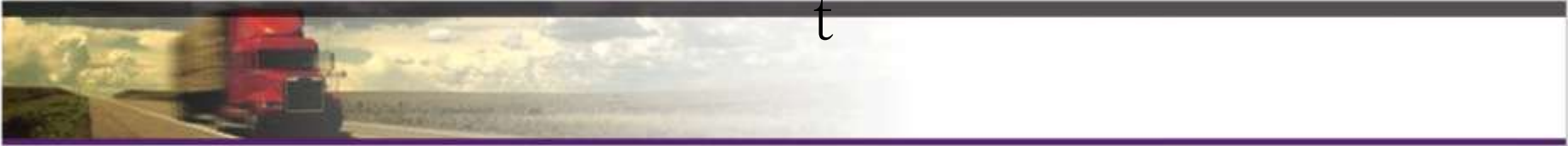
Number of Vehicle OOS Inspections: 25
 Number of Violations: 31
 Ratio of Violations/Power Unit: 0.316:1
 EVIR™ Preventable OOS Violations: **26**
 Percentage EVIR™ OOS Violations: **83.87%**



EVIR™ Vehicle OOS Analysis

See a Detailed Breakdown of All Violations and What Would Have Been Found with a Proper Inspection

Zonar Finds	Inspection Date	Unit License Number	Unit License State	Report State	Inspection Level	Vehicle OOS Violation Code [Details - Click Code]	Vehicle OOS Violation Description
NO	10/20/2009	2KG379	OK	MO	1	393.45B2	BRAKE HOSE/TUBING CHAFFING AND/OR KINKING
YES	10/19/2009	2KQ486	OK	CA	1	393.46	BRAKE HOSE/TUBE CONNECTION
YES	10/15/2009	2M1370	OK	CA	1	393.75A	Flat tire or fabric exposed
YES	10/13/2009	2KG937	OK	OR	2	392.9A2	Failing to secure vehicle equipment
YES	10/7/2009	2LZ166OK	OK	OR	2	393.207B	Adj axle locking pin missing/disengaged
YES	10/3/2009	2JY466	OK	MO	2	393.75A	Flat tire or fabric exposed
NO	10/1/2009	2GJ638	OK	CA	1	393.47	INADEQUATE BRAKE LINING FOR SAFE STOPPING
YES	9/29/2009	2MV111	OK	CO	2	393.75A	Flat tire or fabric exposed
YES	9/29/2009	2NR856	OK	UT	1	393.45	Brake tubing and hose adequacy
YES	9/27/2009	2HC602	OK	MS	1	396.3A1	Inspection/repair and maint parts & accssries
YES	9/24/2009	2KG379	OK	MO	1	393.25F	Stop lamp violations
NO	9/24/2009	2MV892	OK	US	1	396.3A1BOS	BRAKES OUT OF SERVICE: THE NUMBER OF DEFECTIVE BRAKES IS EQUAL TO OR GREATER THA
YES	9/21/2009	2KG933	OK	MO	1	393.25F	Stop lamp violations
YES	9/21/2009	2MV655	OK	CA	1	393.207C	Leaf spring assembly defective/missing
YES	9/18/2009	2HC614	OK	CA	1	393.45	Brake tubing and hose adequacy
NO	9/17/2009	2MT156	OK	NE	1	396.3A1BOS	BRAKES OUT OF SERVICE: THE NUMBER OF DEFECTIVE BRAKES IS EQUAL TO OR GREATER THA
NO	9/17/2009	2KG282	OK	CA	1	396.3A1BA	Brake-out of adjustment
YES	9/16/2009	2KH320	OK	AZ	1	393.45	Brake tubing and hose adequacy
NO	9/16/2009	2KH320	OK	AZ	1	393.45D	BRAKE CONNECTIONS WITH LEAKS/CONSTRICTIONS
YES	9/16/2009	2KH320	OK	AZ	1	396.3A1	Inspection/repair and maint parts & accssries
YES	9/9/2009	2JK709	OK	CA	1	393.205C	Wheel fasteners loose and/or missing
NO	9/9/2009	2JR853	OK	IA	2	393.207F	Air suspension pressure loss
NO	9/9/2009	2JR853	OK	IA	2	393.207F	Air suspension pressure loss
NO	9/8/2009	2MM978	OK	CA	1	396.3A1BA	Brake-out of adjustment
YES	9/1/2009	2M0797	OK	CO	1	393.75A2	Tire-tread and/or sidewall separation
YES	8/31/2009	2M0801	OK	CA	1	392.9A2	Failing to secure vehicle equipment
NO	8/31/2009	2GJ638	OK	CA	1	396.3A1BA	Brake-out of adjustment
NO	8/31/2009	2GJ638	OK	CA	1	396.3A1BA	Brake-out of adjustment
NO	8/28/2009	VP46856	CA	CA	1	392.2	Local laws (general)
YES	8/27/2009	2KA073	OK	CA	1	396.3A1	Inspection/repair and maint parts & accssries
NO	8/27/2009	2KA073	OK	CA	1	396.3A1BA	Brake-out of adjustment
NO	8/25/2009	1YD707	OK	NV	2	393.9TS	INOPERATIVE TURN SIGNAL RIGHT
YES	8/11/2009	2MG184	OK	MO	2	393.207C	Leaf spring assembly defective/missing
YES	8/10/2009	2KT228	OK	CA	1	393.45A4	BRAKE HOSE/TUBING CHAFFING AND/OR KINKING

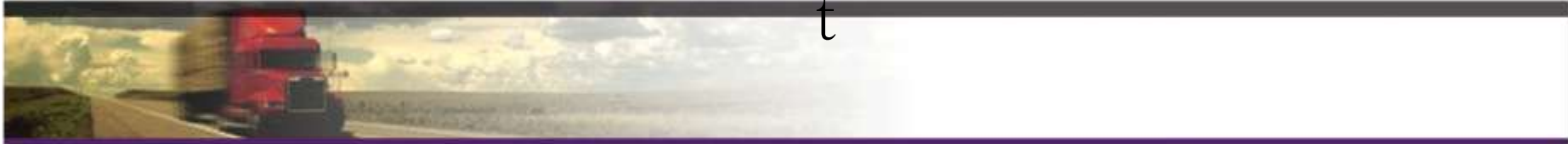


High Definition V2J™ GPS System

Features:



- Real-Time Condition of Vehicle Subsystem Data, Driver Performance, and Location Information to Office Data Base
- Displays Engine Condition and Performance Data
- Reads both 1708 & 1939 SAE Protocols



High Definition V2J™ GPS System



Benefits:

- Real-Time Picture of Vehicle Health
- Fleet Operators Able to Make the Best Decision to Protect the Vehicle, Themselves, and Cargo Assets
- Cost Effective Way to Monitor Engine Diagnostics for Your Entire Fleet

Why PrePass GTC

- First to Capture Data in 4 Dimensions
 - Longitude, Latitude, Velocity and Odometer
- Unprecedented Speed & Accuracy
- Only GPS Provider Approved for IFTA Tax Reporting
 - Access Per State Miles with our exclusive “Miles by State” Report
- Open Source Technology – Customizable to Your Operation
 - Share Data with Your Payroll System, Maintenance and Attendance Software
- Extensive Add On Capabilities Such As:

– Engine Diagnostics, Personnel Tracking, Temperature Sensors

“Zonar Offers the Best Management Tool That I Have Seen In My 30 Years In This Business. They Have Made Keeping Track of My Fleet and People Significantly More Efficient. I Now Have Peace of Mind, and the Ability to Manage My Operations Easily and Economically.” – Glen McMillian
Executive Director. Blue Springs School District, MO

