



**EVENT DATA RECORDER  
FACTUAL REPORT**

**ATTACHMENT – E  
2003 BlueBird Schoolbus  
Engine ECM Data**

**GRAY SUMMIT, MISSOURI  
HWY-10-MH-018**

# PowerSpec - Engine Trip Information Report

Report Date: 8/9/2010 3:37:05 PM

<b>Engine Type</b>	ISB	<b>ECM Code</b>	J91268.01	<b>Last Tool Used</b>	Insite
<b>Engine Serial Number</b>	46212531	<b>Software Phase</b>	7.4.180.232	<b>Customer Name</b>	
<b>Unit Number</b>		<b>ECM Runtime</b> hh:mm:ss	4020:59:29	<b>PowerSpec Version</b>	4.2.2.11

## Trip Data Since Last Reset

<b>Trip Summary</b>	<b>Value</b>	<b>Unit</b>	
Average Fuel Economy	9.31	mpg	
Drive Average Fuel Economy	10.17	mpg	
% Idle Time	32.5	%	
% PTO Time	0.4	%	
% PTO Non-Moving Time	0.4	%	
% Top Gear Distance	61.4	%	
% Gear Down Distance	21.1	%	
% Cruise Distance	1.7	%	
Maximum Vehicle Speed	150	mph	
Number of Sudden Decelerations	4		
Trip Distance	87043.92	miles	
Total Engine Hours	4018:18:0	hh:mm:ss	
Trip Time	3998:52:48	hh:mm:ss	
<b>Distance</b>	<b>Value</b>	<b>Unit</b>	
Trip Distance	87043.92	miles	
Drive Distance	87043.91	miles	
Cruise Distance	1497.30	miles	
Top Gear Distance	53452.38	miles	
Gear Down Distance	18397.00	miles	
PTO Moving Distance	0.00	miles	
<b>Time</b>	<b>Value</b>	<b>Unit</b>	
Trip Time	3998:52:48	hh:mm:ss	
Top Gear Time	1527:12:36	hh:mm:ss	
Gear Down Time	537:33:0	hh:mm:ss	
PTO Moving Time	0:0:36	hh:mm:ss	
PTO Non-Moving Time	14:14:24	hh:mm:ss	
Idle Time	1301:2:24	hh:mm:ss	
Vehicle Overspeed 1 Time	104:52:48	hh:mm:ss	
Vehicle Overspeed 2 Time	0:18:36	hh:mm:ss	
Coast Time Out of Gear	70:58:48	hh:mm:ss	
Fan On Time due to Manual Switch	0:0:0	hh:mm:ss	
<b>Fuel Used</b>	<b>Value</b>	<b>Unit</b>	
Trip Fuel Used	9347.50	gallons	
Drive Fuel Used	8558.13	gallons	
PTO Moving Fuel Used	0.00	gallons	
PTO Non-Moving Fuel Used	0	gallons	
Idle Fuel Used	776.25	gallons	
<b>Counts</b>	<b>Value</b>	<b>Unit</b>	
Service Brake Actuations / 1K	2303.65	brakes/1K miles	
Number of Sudden Decelerations	4		

Number of Coasts Out of Gear	224130		
<b>Maximum Speeds</b>	<b>Value</b>	<b>Unit</b>	
Maximum Engine Speed	3025	rpm	
Maximum Vehicle Speed	150	mph	
<b>Aftertreatment Info</b>	<b>Value</b>	<b>Unit</b>	

### All Trips (Cumulative)

<b>Totals</b>	<b>Value</b>	<b>Unit</b>	
Total Engine Distance	87043.92	miles	
Engine Distance Offset	0	miles	
Total Engine Hours	4018:18:0	hh:mm:ss	
Total ECM Distance	87058.78	miles	
Total Fuel Used	9347.50	gallons	
Total Idle Fuel Used	776.25	gallons	
Total PTO Fuel Used	0.00	gallons	
Total PTO Time	14:15:0	hh:mm:ss	

# PowerSpec - Current Engine Feature Settings

Report Date: 8/9/2010 3:38:34 PM

<b>Engine Type</b>	ISB	<b>ECM Code</b>	J91268.01	<b>Last Tool Used</b>	Insite
<b>Engine Serial Number</b>	46212531	<b>Software Phase</b>	7.4.180.232	<b>Customer Name</b>	
<b>Unit Number</b>		<b>ECM Runtime</b> hh:mm:ss	4021:0:58	<b>PowerSpec Version</b>	4.2.2.11

## Fuel Economy

<b>Road Speed Governor</b>	<b>Value</b>	<b>Unit</b>
Accelerator Max Road Speed	80	mph
Accelerator Lower Droop	3	mph
Accelerator Upper Droop	0	mph
Accelerator Maximum Vehicle Speed Adjust (Smart RSG)	Disabled	
<b>Gear Down Protection</b>	<b>Value</b>	<b>Unit</b>
Gear Down Protection Feature	Disabled	
Gear Down Protection Heavy Load Vehicle Speed	90	mph
Gear Down Protection Light Load Vehicle Speed	90	mph
<b>Idle Speed Control</b>	<b>Value</b>	<b>Unit</b>
Idle Engine Speed	800	rpm
Idle Adjustment Switch	Disabled	
<b>Idle Shutdown</b>	<b>Value</b>	<b>Unit</b>
Idle Shutdown	Disabled	
Idle Shutdown Timer	1:0:0	hh:mm:ss
Idle Shutdown Manual Override	Disabled	
Idle Shutdown in PTO	Disabled	
Idle Shutdown Percent Engine Load	15	%
<b>Fan Control</b>	<b>Value</b>	<b>Unit</b>
Minimum Fan On Timer	30	sec
Fan On During Engine Braking	Disabled	
Manual Fan Switch	Disabled	
Fan Control Type	Two Speed	
Fan Control Clutch Logic	Active High	
Fan Control A/C Press Switch	Disabled	

## Driver Satisfaction

<b>Cruise Control</b>	<b>Value</b>	<b>Unit</b>
Cruise Control Feature	Enabled	
Maximum Cruise Control Speed	70	mph
Cruise Control Lower Droop	3	mph
Cruise Control Upper Droop	0	mph
Cruise Control Save Set Speed	Enabled	
Cruise Control Auto-Resume	Enabled	
<b>Engine Brakes</b>	<b>Value</b>	<b>Unit</b>
Engine Brake Cruise Control Activation	Disabled	
Cruise Control Speed Delta for Minimum Engine Brake	3	mph
Driveline Brake Type	Driveline Retarder	
Expansion	Disabled	
<b>Accelerator Control</b>	<b>Value</b>	<b>Unit</b>
Accelerator Type	Automotive	
Remote Accelerator	Disabled	

## Asset Utilization

<b>PTO/Remote PTO</b>	<b>Value</b>	<b>Unit</b>
PTO Feature	Enabled	
PTO Maximum Engine Load	200	lb ft
PTO Service Brake Override	Enabled	
PTO Maximum Vehicle Speed	10	mph
PTO Maximum Engine Speed	2200	rpm
PTO Minimum Engine Speed	700	rpm
PTO Accelerator Override	Disabled	
PTO Accelerator Override Maximum Engine Speed	3000	rpm
PTO Set Engine Speed	800	rpm
PTO Resume Engine Speed	800	rpm
PTO Additional Speed Switch Engine Speed	825	rpm
PTO Engine Speed Accel/Coast Ramp Rate	25	rpm/s
PTO Clutch Override	Disabled	
Remote PTO Number of Speed Settings	1	
Remote PTO Speed Setting 1	1300	rpm
Remote PTO Speed Setting 2	950	rpm
Remote PTO Speed Setting 3	950	rpm
Remote PTO Speed Setting 4	950	rpm
Remote PTO Speed Setting 5	950	rpm
Alternate PTO Enable	Disabled	
<b>Maintenance Monitor</b>	<b>Value</b>	<b>Unit</b>
Maintenance Monitor Mode	Automatic	
Interval Factor	1.0	
Maintenance Monitor Distance Interval	9000	mi
Maintenance Monitor Time Interval	250	h
Interval Alert Percentage	100	%
Maintenance Monitor	Disabled	
Maintenance Monitor Leading Interval	Distance	

### Asset Protection

<b>Engine Protection</b>	<b>Value</b>	<b>Unit</b>
Engine Protection Shutdown Feature	Disabled	
Manual Override	Disabled	
<b>Anti-Tampering Measures</b>	<b>Value</b>	<b>Unit</b>
Maximum Engine Speed without VSS	2200	rpm
Vehicle Speed Sensor (VSS) Tamper Detection	Disabled	
<b>Powertrain Protection</b>	<b>Value</b>	<b>Unit</b>
Max Torque-Axle/Driveshaft	31000	lb ft
Max Torque-Switched	2000	lb ft
Max Torque-Top Gear Range	1000	lb ft
Top Gear Range	2.00	Ratio
Intermediate Gear Range	3.00	Ratio
Bottom Gear Range	14.50	Ratio
Max Torque-Inter. Gear Range	1000	lb ft
Max Torque-Bottom Gear Range	1000	lb ft
Max Torque-Zero Vehicle Speed	1000	lb ft
Powertrain Protection	Disabled	
Lugback	Disabled	
<b>Fast Idle Warmup</b>	<b>Value</b>	<b>Unit</b>

Fast Idle Warmup PTO Load Threshold	10	%
Fast Idle Warmup Idle Speed	1200	rpm
Force Fast Idle Warmup Deact	Activate	
Fast Idle Warmup	Disabled	
<b>Rate Management</b>	<b>Value</b>	<b>Unit</b>
Accel Rate	8.00	mph/s
Vehicle Accel Management	Disabled	
<b>Parameter Security</b>	<b>Value</b>	<b>Unit</b>
Current Engine Master Password		
Current Engine OEM Password		
Engine Reset Password		

### Vehicle Setup

<b>Driveline Configuration</b>	<b>Value</b>	<b>Unit</b>
Rear Axle Ratio	5.29	
Tire Size	496	rev/mi
Transmission Top Gear Ratio	0.74	Ratio
Transmission One Gear Down Ratio	1.00	Ratio
<b>Cruise Control Switch</b>	<b>Value</b>	<b>Unit</b>
Cruise Control Switch Setup	Set/Coast (Resume/Accelerate)	

### Asset Management

<b>Trip Information</b>	<b>Value</b>	<b>Unit</b>
Engine Hours Offset	0.00	h
Engine Distance Offset	0.00	mi

### Vehicle Setup

<b>Vehicle Setup Parameters</b>	<b>Value</b>	<b>Unit</b>
Number of Tailshaft Gear Teeth	16	
Vehicle Speed Sensor Type	Magnetic	
Digital Pulses Per Mile	41981	puls/mi
Transmission Type	Automatic	
Vehicle Setup Application	ON Highway	
Transmission Pulse	60% On, 45% Off	
PWM Frequency	8	Hz
Dual Outputs	Enabled	
<b>Switched Maximum Engine Speed</b>	<b>Value</b>	<b>Unit</b>
Droop Type	Two Position Switch	
Switched Maximum Operating Speed	3000	rpm

# PowerSpec - Engine Fault Report

Report Date: 8/9/2010 3:34:27 PM

<b>Engine Type</b>	ISB	<b>ECM Code</b>	J91268.01	<b>Last Tool Used</b>	Insite
<b>Engine Serial Number</b>	46212531	<b>Software Phase</b>	7.4.180.232	<b>Customer Name</b>	
<b>Unit Number</b>		<b>ECM Runtime</b> hh:mm:ss	4020:56:51	<b>PowerSpec Version</b>	4.2.2.11

<b>Active Faults</b>	<b>Cummins Fault Code</b>	<b>Count</b>
<b>Inactive Faults</b>	<b>Cummins Fault Code</b>	<b>Count</b>
Auxiliary Equipment Sensor Input # 3 (OEM Switch) - Root Cause Not Known	779	124
Fuel Pump Control Module, CAN Communication Error - Abnormal update rate	364	1

# PowerSpec - Engine Dataplate Information

Report Date: 8/9/2010 3:39:59 PM

<b>Engine Type</b>	ISB	<b>ECM Code</b>	J91268.01	<b>Last Tool Used</b>	Insite
<b>Engine Serial Number</b>	46212531	<b>Software Phase</b>	7.4.180.232	<b>Customer Name</b>	
<b>Unit Number</b>		<b>ECM Runtime</b> hh:mm:ss	4021:2:23	<b>PowerSpec Version</b>	4.2.2.11

<b>ECM Information</b>	<b>Value</b>
Boot Phase	33686278
Core Based	True
Module ID	17742
Module Name	CM550
ECM Serial Number	5015350
ECM Part Number	3990517
<b>Engine Information</b>	<b>Value</b>
Engine Model	ISB
Engine Build Date	5/8/2002 12:00:00 AM
Engine Family	ISB/ISC/ISL Phase 7.4
DO Option	9189
SC Option	6069
Engine Horse Power	205
Engine Horse Power RPM	2300
Engine Torque	520
Engine Torque RPM	1600
<b>Vehicle Information</b>	<b>Value</b>
Vehicle Identification Number (VIN)	1BABJCPH63F210536
OEM Vehicle or Equipment	2003
OEM Name	BLUE BIRD CORP
OEM Vehicle Equipment Model	A3FE3503
Customer Location	
Customer Name	



Inquire Data Extraction Properties

File Name,I46212531\_0\_20100810154301.csv

Engine Serial Number,46212531

Customer Name,

Customer Unit Number,bus1

Group Name,New Group

Engine Serial Number,"46212531"

Engine Make,"CMMNS"

Engine Model,"ISB 205 "

ECM Serial Number,"5015350"

Vehicle ID,"1BABJCPH63F210536"

Vehicle Unit Number," "

Vehicle Make,"BLUE BIRD CORP "

Vehicle Model,"A3FE3503"

ECM,"CM550"

ECM State,"Good"

Engine Program ID,"13250"

System ID and Dataplate,""

System ID and Dataplate - Calibration Information

Calibration Software Phase,"0704B4E8", ""

Calibration Time/Date Stamp,"050802154850", ""

Calibration Voltage Range High,"0", "V"

Calibration Voltage Range Low,"0", "V"

DO Option,"9189", ""

ECM Code," J91268.01", ""

Other Options," , ""

SC Option,"6069", ""

System ID and Dataplate - Customer Information

Customer Location," , ""

Customer Name," , ""

Customer Unit Number," , ""

#### System ID and Dataplate - ECM Information

ECM Name,"EN", ""  
ECM Option,"CMMNS", ""  
ECM Part Number,"3990517", ""  
ECM Serial Number,"5015350", ""  
ECM Voltage Range High,"0", "V"  
ECM Voltage Range Low,"0", "V"

#### System ID and Dataplate - Engine Information

Engine Build Date,"50802", ""  
Engine Make,"CMMNS", ""  
Engine Model,"ISB 205", ""  
Engine Serial Number,"46212531", ""

#### System ID and Dataplate - System Information

Advertised Power at RPM,"205", "hp"  
Advertised Power RPM,"2300", "RPM"  
Control Parts List,"2686", ""  
Fuel Code,"98638", ""  
Governed Speed,"2500", "RPM"  
Peak Torque at RPM,"520", "ft\*lb"  
Peak Torque RPM,"1600", "RPM"  
Torque Rise,"0", "Percent"

#### System ID and Dataplate - Vehicle/OEM Information

OEM Name,"BLUE BIRD CORP", ""  
OEM Vehicle or Equipment Model,"A3FE3503", ""  
Vehicle Identification Number (VIN) or Equipment Serial Number,"1BABJCPH63F210536", ""  
Vehicle or Equipment Year,"2003", ""

#### Features and Parameters

Acceleration Management,"Disable"

Accelerator Maximum Manual Vehicle Switch,"Disable"

Accelerator Options,""  
Accelerator Interlock,"Enable", ""  
Engine Governor Type,"Automotive", ""  
Remote Accelerator,"Disable", ""  
Switchable Accelerator Type,"Disable", ""

Alternate Fueling Table,"Disable"

Cruise Control,"Enable"  
Auto-Resume,"Enable", ""  
Lower Droop,"3", "mph"  
Maximum Speed,"70", "mph"  
Save Set Speed,"Enable", ""  
Switch Usage,"Set/Coast", ""  
Upper Droop,"0", "mph"

Engine Brake Control,""  
Cruise Control Activation,"Disable", ""  
Vehicle Braking,"Driveline Retarder", ""

Engine Protection,"Enable"  
Engine Protection Shutdown,"Disable", ""

Engine Speed,""  
High Speed Governor Switched Speed,"3000", "RPM"  
Maximum Engine Speed without Vehicle Speed Sensor,"2200", "RPM"

Fan Control,""  
Air Conditioner Pressure Switch Controls Fan,"Disable", ""  
Fan Clutch Logic,"12/24V ON", ""  
Fan On During Engine Braking,"Disable", ""  
Fan Type,"On/Off", ""  
Manual Fan Switch,"Disable", ""

Fast Idle Warmup,"Disable"

Gear-Down Protection,"Disable"

Idle Shutdown,"Disable"

Idle Speed Adjustment,""

Low Idle Adjustment,"Disable", ""  
Low Idle Speed,"800", "RPM"

Light Fuel,"Disable"

Maintenance Monitor,"Disable"

OEM Sensors, ""  
Dual Outputs Based on Sensed Parameters,"Enable", ""

Powertrain Protection,"Disable"

PTO/Remote PTO,"Enable"  
Alternate PTO,"Disable", ""  
Clutch Override in PTO,"Disable", ""  
Ignore Vehicle Speed Sensor,"Disable", ""  
Maximum Engine Load in PTO,"200", "ft\*lb"  
Maximum PTO Speed,"2200", "RPM"  
Maximum Vehicle Speed in PTO,"10", "mph"  
Minimum PTO Speed,"700", "RPM"  
PTO Additional Switch Speed,"825", "RPM"  
PTO Ramp Rate,"25", "rpm/s"  
PTO Resume Switch Speed,"800", "RPM"  
PTO Set Switch Speed,"800", "RPM"  
Service Brake Override in PTO,"Enable", ""

PTO/Remote PTO - Accelerator Override in PTO,"Disable"

PTO/Remote PTO - Remote PTO,"Enable"

Number of Remote PTO Set Speeds,"1", ""  
Remote Set Speed 1,"1300", "RPM"

SAE J1939 Multiplexing,"Disable"

Transmission, ""  
Gear Down Ratio,"1.00", ""  
Pulse Width Modulation Output Type,"60% Throttle ON,45% Throttle Off", ""  
Top Gear Ratio,"0.74", ""  
Transmission Type,"Automatic", ""

Trip Information,"Enable"  
Engine Distance Offset,"0","mi"  
Engine Hours Offset,"0","hrs"

Vehicle Speed Sensor Anti-Tampering,"Disable"

Vehicle Speed,""  
Accelerator Maximum,"80","mph"  
On-Highway Type,"On Highway", ""  
Pulses Per Distance,"41981","rev/mi"  
Rear Axle Ratio,"5.29", ""  
Road Speed Governor Lower Droop,"3","mph"  
Road Speed Governor Upper Droop,"0","mph"  
Tailshaft Gear Teeth,"16", ""  
Tire Revolutions per Distance,"496","rev/mi"  
Two Speed Rear Axle,"Disable", ""  
Two Speed Rear Axle Ratio,"5.29", ""  
Vehicle Speed Sensor Type,"Magnetic", ""

Trip Information

All Trips (Cumulative), ""  
ECM Distance,"87058.78","mi"  
ECM Time (Key On Time),"4018:36:27","HH:MM:SS"  
Engine Average Load,"28.50","Percent"  
Engine Brake Actuations,"383761", ""  
Engine Brake Distance,"11313","mi"  
Engine Brake Time,"1916:55:45","HH:MM:SS"  
Engine Distance,"87058.78","mi"  
Engine Hours (Engine Run Time),"3998:56:56","HH:MM:SS"  
Fuel Used,"9347.5","gal"  
Idle Fuel,"776.3","gal"  
Idle Time,"1301:02:29","HH:MM:SS"  
PTO Fuel Used,"0.0","gal"  
PTO Time,"14:15:03","HH:MM:SS"  
Service Brake Distance,"3607","mi"  
Service Brakes Time,"306:06:28","HH:MM:SS"

Trip Since Last Reset,""  
Average Fuel Economy,"9.30","mpg"

Average Fuel Rate,"2.33","gph"  
Average Load Factor,"28.50","Percent"  
Average Vehicle Speed,"22","mph"  
Distance,"87043.92","mi"  
Fan on Due to Air Conditioner System,"0:00:00","HH:MM:SS"  
Fan On Due to Manual Switch,"0:00:00","HH:MM:SS"  
Fan On Time,"39:32:43","HH:MM:SS"  
Fuel Used,"9347.5","gal"  
Maximum Engine Speed,"3025","RPM"  
Maximum Vehicle Speed,"150","mph"  
PTO Fuel Used,"0.0","gal"  
PTO Percent Time,"0.35","Percent"  
PTO Time,"14:15:03","HH:MM:SS"  
Time,"3998:52:59","HH:MM:SS"

#### Data Monitors

Accelerator Interlock Switch,"Locked", "",  
Battery Voltage,"12.1","V",  
Calibration Software Phase,"0704B4E8", "",  
Cam Sensor Engine Speed,"0","RPM",  
Clutch Switch,"Released", "",  
Coolant Level,"High", "",  
Coolant Temperature,"93.1","F",  
Coolant Temperature Signal Voltage,"2.7","V",  
Crank Sensor Engine Speed,"0","RPM",  
Cruise Set/Resume Switch,"None", "",  
Diagnostic Switch,"Off", "",  
Engine Brake Switch,"Off", "",  
Engine Harness Supply Voltage,"0.50","V",  
Engine Oil Pressure,"0.0","psi",  
Engine Oil Pressure Signal Voltage,"0.5","V",  
Engine Speed,"0","RPM",  
Engine Speed Sensor Supply Voltage,"5.0","V",  
Engine Torque Limit Switch,"On", "",  
Fan Clutch Status,"Off", "",  
Fuel Economy,"0.000","mpg",  
Fuel Temperature,"95.9","F",  
Intake Air Heater #1,"Off", "",  
Intake Air Heater #2,"Off", "",  
Intake Manifold Pressure,"0.5","InHg",  
Intake Manifold Pressure Signal Voltage,"0.5","V",

Intake Manifold Temperature,"94.7","F",  
Intake Manifold Temperature Signal Voltage,"2.7","V",  
J1939 Engine Control Source,"None", "",  
J1939 Engine Control Status,"Inactive", "",  
J1939 Retarder Control Source,"None", "",  
J1939 Retarder Control Status,"Inactive", "",  
Key Offs,"6592", "",  
Key Switch,"On", "",  
Manual Fan Switch,"On", "",  
OEM Harness Supply Voltage,"5.0","V",  
Percent Fuel,"0.00","Percent",  
Percent Throttle,"0","Percent",  
Powertrain Protection Torque Limit,"65535","ft\*lb",  
PTO Additional Switch,"Off", "",  
PTO Set / Resume Switch,"Neutral", "",  
PTO Status,"Inactive", "",  
Rear Axle Ratio Switch,"Low", "",  
Remote PTO Switch,"Off", "",  
Remote Throttle Switch,"Off", "",  
Service Brake Switch,"Depressed", "",  
Throttle Signal Voltage,"0.4","V",  
Throttle Status (Idle Validation),"On Idle", "",  
Throttle Supply Voltage,"5.0","V",  
Total ECM Time (Key On Time),"4021:17:51","HH:MM:SS",  
User Fueling State,"Engine Stop", "",  
Vehicle Speed,"0","mph",  
VP44 Calculated Engine Speed,"0","RPM",  
VP44 Fault Status,"12", "",  
VP44 Voltage,"12.0","V",  
VP44 Voltage Drop,"0.0","V",  
Water-In-Fuel Status,"No", ""

#### Fault Information

Fault Code,"Fault Status","Fault Count","Lamp","Description","PID","SID","J1587 FMI","J1939 FMI","SPN"  
364,"Inactive","1","Amber","Engine will run at a backup mode set speed when throttle is off idle ...OR... engine will not start.", "", "233", "9", "", ""  
779,"Inactive","124","Amber","Power derate and possible engine shutdown if engine protection feature is enabled due to OEM switch input to ECM.", "", "051", "11", "", ""

#### Fault Snapshot

Fault Code 364,"First Occurrence",,"Last Occurrence"  
Battery Voltage,"10.9","V","10.9","V"

Clutch Switch,"Released", "", "Released", ""  
Coolant Level,"High", "", "High", ""  
Coolant Temperature,"196.8", "F", "196.8", "F"  
Cruise Set/Resume Switch,"None", "", "None", ""  
Cruise/PTO Switch,"Off", "", "Off", ""  
Diagnostic Switch,"Off", "", "Off", ""  
Engine Oil Pressure,"0.0", "psi", "0.0", "psi"  
Engine Speed,"206", "RPM", "206", "RPM"  
Fan Clutch Status,"Off", "", "Off", ""  
Fuel Temperature,"128.3", "F", "128.3", "F"  
Idle Increment Switch,"None", "", "None", ""  
Idle Switch (Idle Validation),"On Idle", "", "On Idle", ""  
Intake Air Heater,"Off", "", "Off", ""  
Intake Manifold Pressure,"0.0", "InHg", "0.0", "InHg"  
Intake Manifold Temperature,"161.1", "F", "161.1", "F"  
Key Switch,"On", "", "On", ""  
Percent Fuel,"106.01", "Percent", "106.01", "Percent"  
Percent Throttle,"0", "Percent", "0", "Percent"  
Remote PTO Switch,"Off", "", "Off", ""  
Service Brake Switch,"Released", "", "Released", ""  
Total ECM Time (Key On Time),"4017:55:53", "HH:MM:SS", "4017:55:53", "HH:MM:SS"  
Total Engine Hours (Engine Run Time),"3995:59:23", "HH:MM:SS", "3995:59:23", "HH:MM:SS"  
User Fueling State,"Crank State", "", "Crank State", ""  
Vehicle Speed,"0", "mph", "0", "mph"  
VP44 Fault Status,"12", "", "12", ""

Fault Code 779,"First Occurrence", "Last Occurrence"  
Battery Voltage,"13.6", "V", "14.3", "V"  
Clutch Switch,"Released", "", "Released", ""  
Coolant Level,"High", "", "High", ""  
Coolant Temperature,"96.5", "F", "48.8", "F"  
Cruise Set/Resume Switch,"None", "", "None", ""  
Cruise/PTO Switch,"On", "", "Off", ""  
Diagnostic Switch,"Off", "", "Off", ""  
Engine Oil Pressure,"55.1", "psi", "55.1", "psi"  
Engine Speed,"2457", "RPM", "800", "RPM"  
Fan Clutch Status,"Off", "", "Off", ""  
Fuel Temperature,"77.2", "F", "38.8", "F"  
Idle Increment Switch,"None", "", "None", ""  
Idle Switch (Idle Validation),"Off Idle", "", "On Idle", ""  
Intake Air Heater,"Off", "", "Off", ""





Engine Coolant Temperature,"00:00:00","HH:MM:SS"  
Engine Coolant Temperature Severity1,"215-220","F"  
Engine Coolant Temperature,"00:00:00","HH:MM:SS"  
Engine Coolant Temperature greater than boundary Severity2,"220-235","F"  
Engine Coolant Temperature,"00:00:00","HH:MM:SS"  
Engine Coolant Temperature greater than boundary Severity3," > 235","F"  
Engine Coolant Temperature,"00:00:00","HH:MM:SS"  
Engine Coolant Temperature greater than boundary Severity Total," > 215","F"

Engine Speed,"00:00:00","HH:MM:SS"  
Engine Overspeed Severity1,"3200-3300","RPM"  
Engine Speed,"00:00:00","HH:MM:SS"  
Engine Overspeed greater than boundary Severity2,"3300-3400","RPM"  
Engine Speed,"00:00:00","HH:MM:SS"  
Engine Overspeed greater than boundary Severity3," > 3400","RPM"  
Engine Speed,"00:00:00","HH:MM:SS"  
Engine Overspeed greater than boundary Severity Total," > 3200","RPM"

Intake Manifold Air Temperature,"00:03:44","HH:MM:SS"  
Intake Manifold Air Temperature Severity1,"180-220","F"  
Intake Manifold Air Temperature,"00:00:00","HH:MM:SS"  
Intake Manifold Air Temperature greater than boundary Severity2,"220-260","F"  
Intake Manifold Air Temperature,"00:00:00","HH:MM:SS"  
Intake Manifold Air Temperature greater than boundary Severity3," > 260","F"  
Intake Manifold Air Temperature,"00:03:44","HH:MM:SS"  
Intake Manifold Air Temperature greater than boundary Severity Total," > 180","F"

Engine Hours,"419:48:34","HH:MM:SS"  
Engine Protection  
Description,"Fault Code","Occurrence","Value",,"Fault Duration",,"Total ECM Time (Key on Time)",

No Data Available

Duty Cycle Monitor

Short Term Map 1

Torque  
100.00,,0.6%,1.2%,1.2%,1.9%,,,

90.00,0.0%,0.8%,1.6%,1.0%,1.0%,1.7%,0.0%,0.0%  
70.00,0.0%,1.7%,3.4%,2.4%,1.2%,0.1%,0.0%,0.0%  
50.00,0.0%,3.6%,5.9%,1.9%,0.4%,0.1%,0.0%,0.0%  
30.00,3.7%,3.0%,4.4%,0.8%,0.1%,0.0%,0.0%,0.0%  
10.00,21.3%,1.5%,1.6%,0.0%,0.0%,0.0%,0.0%,0.0%  
0.00,16.8%,,,,,,0.0%,0.0%,0.0%  
,,,,13.7%,,,,0.0%

Engine Speed (RPM),900,1300,1600,1900,2200,2500,2600,2700,0

Map Start Time,"0:00:01","HH:MM:SS"  
Map Hours Remaining,"0:00:00","HH:MM:SS"  
Advertised Power at RPM,"205","hp"  
Advertised Power RPM,"2300","RPM"  
Peak Torque at RPM,"520","ft\*lb"  
Peak Torque RPM,"1600","RPM"

Short Term Map 2

Torque  
100.00,,0.6%,1.0%,1.1%,1.5%,,,  
90.00,0.0%,0.8%,1.5%,1.2%,0.8%,1.1%,0.0%,0.0%  
70.00,0.0%,1.8%,3.5%,2.6%,0.9%,0.0%,0.0%,0.0%  
50.00,0.0%,3.7%,6.0%,2.2%,0.3%,0.0%,0.0%,0.0%  
30.00,3.5%,3.2%,4.7%,1.0%,0.1%,0.0%,0.0%,0.0%  
10.00,19.0%,1.5%,1.7%,0.0%,0.0%,0.0%,0.0%,0.0%  
0.00,19.8%,,,,,,0.0%,0.0%,0.0%  
,,,,13.6%,,,,0.0%

Engine Speed (RPM),900,1300,1600,1900,2200,2500,2600,2700,0

Map Start Time,"500:17:45","HH:MM:SS"  
Map Hours Remaining,"0:00:00","HH:MM:SS"  
Advertised Power at RPM,"205","hp"  
Advertised Power RPM,"2300","RPM"  
Peak Torque at RPM,"520","ft\*lb"  
Peak Torque RPM,"1600","RPM"

Long Term Map

Torque

100.00,,0.4%,0.9%,1.8%,2.5%,,  
90.00,0.0%,0.6%,1.1%,1.2%,1.6%,1.1%,0.0%,0.0%  
70.00,0.0%,1.3%,2.7%,2.7%,2.3%,0.2%,0.0%,0.0%  
50.00,0.0%,3.2%,5.3%,2.6%,1.8%,0.2%,0.0%,0.0%  
30.00,2.1%,3.1%,4.6%,1.5%,1.2%,0.1%,0.0%,0.0%  
10.00,15.3%,1.2%,1.5%,0.4%,0.3%,0.1%,0.0%,0.0%  
0.00,22.5%,,,,,0.0%,0.0%,0.0%  
,,,,12.2%,,,,,0.0%

Engine Speed (RPM),900,1300,1600,1900,2200,2500,2600,2700,0

Map Start Time,"0:00:00","HH:MM:SS"

Map Hours Remaining,"96003:31:16","HH:MM:SS"

Advertised Power at RPM,"205","hp"

Advertised Power RPM,"2300","RPM"

Peak Torque at RPM,"520","ft\*lb"

Peak Torque RPM,"1600","RPM"

#### OBD Monitors

Fault Code,"Description","Monitor Type","Readiness Code"

OBD is not supported for this product.

#### Technician's Note

#### Knock Count Reset

This feature is not supported by the current calibration.

#### Anti-Theft Protection

Vehicle Anti-Theft,"Disable",""

Vehicle Anti-Theft Automatic Mode,"Disable",""

New Anti-Theft Pin,"Disabled"

New Anti-Theft Pin 2,"Disabled"

New Anti-Theft Pin 3,"Disabled"

New Anti-Theft Pin 4,"Disabled"

New Anti-Theft Pin 5,"Disabled"

New Anti-Theft Pin 6,"Disabled"

#### Multi-Level ECM Security

ECM Passwords

Master Password,"Disabled"

Adjustable Password,"Disabled"

Reset Password,"Disabled"

OEM Password,"Disabled"

PowerSpec Enable and Password

PowerSpec End-User Authorization,"Disable", ""

PowerSpec Password,"Disabled"

Real Time Clock

Parameter,"Value","Units",

RTC Enable,"Run Time",

Real Time Clock Time,"","HH:MM:SS",