




The **M.E.D.S.™**  report provides you a detailed boat engine report including among other features vital system information, any current active faults, engine run history, data parameter snapshot. This report will be the most comprehensive coverage of your boat engine's history, helping you understand what is occurring with your boat engine.

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Boat Information:

Owner: John Doe

Address: 111 10th Street

Jupiter, Florida

Telephone: 561-555-1028

Email Address: johndoe@marinediagnosticsflorida.com


Make & Model: 2010 41' Hydra-Sports Vector - Port Mercury Verado 300 HP - Last Serial 3388

Test Center:

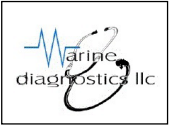
Location: 4300 South U.S. Highway 1, Suite 203-152, Jupiter, Florida 33477

Technician: Capt. David Gunderson

Signature: David Gunderson


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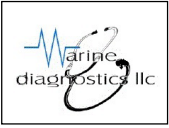


System Information

2.6L 300 VERADO
ECM# 8M0026529
EPA 2 STAR + EU
300L6G2_P25
RPM LIMIT 6500
PROP RPM 5800-6400
550 IDLE GEAR
550 IDLE NEUTRAL
TROLL RPM 550-1000
MINIUM OCTANE
REQUIRE 87R+M/2
RECOMMEND 91
MY2007p4AAAA_01

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Active Faults

No faults active

Note: Active faults represent unusual operating conditions, abnormal sensor readings, or switch inputs that the ECM has recognized during the current operation.

A fault listed as "Active" indicates the fault condition is currently present. A fault listed as "Inactive" indicates the fault occurred sometime during the current run session but is no longer present.

The faults shown in this section will be cleared every time the engine ignition voltage is keyed off; faults that reappear indicate the underlying off-normal conditions are still present and affecting engine operation.

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Run time history

Engine run times since last history clear

RPM band	Hours in band
0- 749	82 hr 58 min
750-1499	31 hr 52 min
1500-2999	20 hr 37 min
3000-3999	14 hr 29 min
4000-4499	10 hr 17 min
4500-4999	7 hr 48 min
5000-5499	4 hr 25 min
5500-6249	4 hr 50 min
6250+	0 hr 11 min

Total engine run time: 1417 hr 16 min

Monitored subsystem activation times

break-in time : 0 min (Time remaining)

RPM Limit 0 sec
 GRD Limit 16 sec
 Block PSI 0 sec 1

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Run time history (Lifetime)


RPM band	Hours in band
0- 749	906 hr 19 min
750-1499	110 hr 13 min
1500-2999	68 hr 45 min
3000-3999	90 hr 11 min
4000-4499	114 hr 55 min
4500-4999	87 hr 3 min
5000-5499	31 hr 54 min
5500-6249	7 hr 24 min
6250+	0 hr 32 min

Total engine run time: 1417 hr 16 min

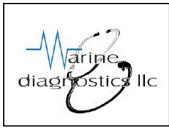
Monitored subsystem activation times

break-in time : 0 min (Time remaining)

RPM Limit 0 sec
 GRD Limit 1985 sec
 Block PSI 0 sec 1


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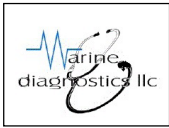




Fault Seconds History

Standard	Lifetime	Description
0	0	BATT VOLT HI
0	0	BATT VOLT LO
0	0	BLOCK PRESS LOW
0	0	COMP OVRHEAT
0	0	ETC MOTOR OPEN
0	0	ETC MOTOR SHORT
0	0	FUEL P INPUT HI
0	0	FUEL P INPUT LO
16	1985	GUARDIAN
0	0	KNOCK SENS1
0	0	KNOCK SENS2
0	0	OIL PSI STR
0	0	OIL REMOTE STR
0	0	OIL RESERVE STR
0	0	MAP INPUT HI
88	88	MAP INPUT LO
31	93	MAP IDLE CHECK
0	0	OIL PUMP
0	0	OVERSPEED
0	0	PRT OVERHEAT
0	0	STB OVERHEAT
0	0	WARNING HORN
0	65535	H2O IN FUEL

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Stored Freeze Frames

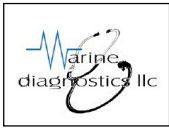
ECM Freeze Frame #0 Caused By Fault: GUARDIAN

Description	Value	Description	Value
Baro Press	14.58 PSI	Battery Volts	13.06 V
Block Press	0.00 PSI	Boat Speed	0.0
Air Temp	32.0 °F	Cool Temp	32.0 °F
Demand	37.5 %	Engine RPM	508 RPM
Engine State	Run	FPC Total	0.0
Freq Counter	30	Fuel Level	0.0 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	100.0 %	MPRLY Req	263316
MAP Press	36.11 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	4.7 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	1.7 %	Trim Position	0.0

ECM Freeze Frame #1 Caused By Fault: ENGINE VOLT LO

Description	Value	Description	Value
Baro Press	14.48 PSI	Battery Volts	12.92 V
Block Press	0.33 PSI	Boat Speed	0.0
Air Temp	82.4 °F	Cool Temp	77.0 °F
Demand	14.0 %	Engine RPM	0 RPM
Engine State	Stall	FPC Total	0.0
Freq Counter	32	Fuel Level	43.9 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	278528
MAP Press	14.48 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	4.7 %
Run Time	1417.3	Star TAB Pos	0.0
TPI	9.5 %	Trim Position	99.9

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ECM Freeze Frame #2 Caused By Fault: ESC TIMEOUT

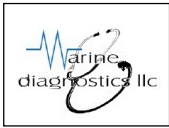
Description	Value	Description	Value
Baro Press	14.55 PSI	Battery Volts	8.25 V
Block Press	0.33 PSI	Boat Speed	0.0
Air Temp	84.2 °F	Cool Temp	80.6 °F
Demand	13.6 %	Engine RPM	57 RPM
Engine State	Crank	FPC Total	0.0
Freq Counter	9	Fuel Level	68.7 %
Shift Status	Reverse	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	263324
MAP Press	14.49 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	4.7 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	9.5 %	Trim Position	3.1

ECM Freeze Frame #3 Caused By Fault: ESC - ERC POS

Description	Value	Description	Value
Baro Press	14.51 PSI	Battery Volts	13.49 V
Block Press	4.02 PSI	Boat Speed	0.0
Air Temp	89.6 °F	Cool Temp	96.8 °F
Demand	14.6 %	Engine RPM	596 RPM
Engine State	Run	FPC Total	0.0
Freq Counter	8	Fuel Level	22.1 %
Shift Status	Reverse	Lake/Sea Temp	-58.0 °F
Load	17.7 %	MPRLY Req	263318
MAP Press	7.30 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	100.0 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	3.2 %	Trim Position	3.2

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ECM Freeze Frame #4 Caused By Fault: ESC - NS POS

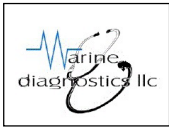
Description	Value	Description	Value
Baro Press	14.58 PSI	Battery Volts	13.22 V
Block Press	0.00 PSI	Boat Speed	0.0
Air Temp	32.0 °F	Cool Temp	172.4 °F
Demand	5.0 %	Engine RPM	0 RPM
Engine State	Stall	FPC Total	0.0
Freq Counter	1	Fuel Level	0.0 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	262148
MAP Press	36.11 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	0.0 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	18.5 %	Trim Position	0.0

ECM Freeze Frame #5 Caused By Fault: CAN ERR1

Description	Value	Description	Value
Baro Press	14.58 PSI	Battery Volts	14.19 V
Block Press	3.63 PSI	Boat Speed	0.0
Air Temp	93.2 °F	Cool Temp	107.6 °F
Demand	8.4 %	Engine RPM	578 RPM
Engine State	Run	FPC Total	0.0
Freq Counter	5	Fuel Level	27.8 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	13.2 %	MPRLY Req	263316
MAP Press	5.74 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	100.0 %
Run Time	1413.7	Star TAB Pos	0.0
TPI	2.3 %	Trim Position	2.5

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ECM Freeze Frame #6 Caused By Fault: CAN ERR10

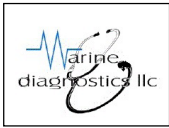
Description	Value	Description	Value
Baro Press	14.58 PSI	Battery Volts	13.19 V
Block Press	0.00 PSI	Boat Speed	0.0
Air Temp	32.0 °F	Cool Temp	172.4 °F
Demand	5.0 %	Engine RPM	0 RPM
Engine State	Stall	FPC Total	0.0
Freq Counter	1	Fuel Level	0.0 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	262148
MAP Press	36.11 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	0.0 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	18.5 %	Trim Position	0.0

ECM Freeze Frame #7 Caused By Fault: CAN ERR7

Description	Value	Description	Value
Baro Press	14.58 PSI	Battery Volts	13.25 V
Block Press	0.00 PSI	Boat Speed	0.0
Air Temp	32.0 °F	Cool Temp	172.4 °F
Demand	5.0 %	Engine RPM	0 RPM
Engine State	Stall	FPC Total	0.0
Freq Counter	1	Fuel Level	0.0 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	262148
MAP Press	36.11 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	0.0 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	18.5 %	Trim Position	0.0

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ECM Freeze Frame #8 Caused By Fault: CAN ERR9

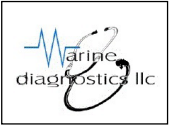
Description	Value	Description	Value
Baro Press	14.58 PSI	Battery Volts	13.27 V
Block Press	0.00 PSI	Boat Speed	0.0
Air Temp	32.0 °F	Cool Temp	172.4 °F
Demand	5.0 %	Engine RPM	0 RPM
Engine State	Stall	FPC Total	0.0
Freq Counter	1	Fuel Level	0.0 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	262148
MAP Press	36.11 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	0.0 %
Run Time	1382.2	Star TAB Pos	0.0
TPI	18.5 %	Trim Position	0.0

ECM Freeze Frame #9 Caused By Fault: SC DIAG CKT HI


Description	Value	Description	Value
Baro Press	14.48 PSI	Battery Volts	8.01 V
Block Press	0.30 PSI	Boat Speed	0.0
Air Temp	80.6 °F	Cool Temp	77.0 °F
Demand	14.0 %	Engine RPM	0 RPM
Engine State	Stall	FPC Total	0.0
Freq Counter	5	Fuel Level	28.3 %
Shift Status	Neutral	Lake/Sea Temp	-58.0 °F
Load	0.0 %	MPRLY Req	262144
MAP Press	14.48 PSI	Oil Level	0.0 %
Port TAB Pos	0.0	Available Power	4.7 %
Run Time	1417.3	Star TAB Pos	0.0
TPI	9.5 %	Trim Position	99.6

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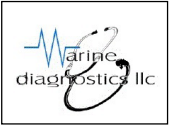



Data parameter snapshot

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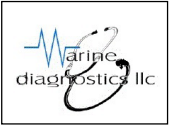


Reading	Value	Description
Engine RPM	0 RPM	RPM Signal is provided by crank position sensor (trigger signal).
Engine Load	37.7 %	
TPI 1 Volts	0.86 V	See System Information For Typical Range Values
TPI 2 Volts	0.90 V	See System Information For Typical Range Values
Air Temp	93.2 °F	
MAP Pressure	14.59 PSI	
Fuel Level	1.56 V	Primary Fuel Tank Data
Fuel Level 2	594	Second Fuel Tank Data
Pitot	25	Pressure For Speed Calculation
Shift	Neutral	In Gear = 5; Neutral = 4
Oil Pressure	0.00 PSI	Oil Pressure Data
Trim	48	
Battery Volts	13.08 V	See System Information For Typical Range Values
PWR 1 Volts	4.97 V	Internal ECM Power Supply For Sensors; 5.0V +/- 0.1V
PWR 2 Volts	5.03 V	Internal ECM Power Supply For Sensors; 5.0V +/- 0.1V
TPS %	9.5 %	Smooth Change From Idle (0%) To WOT (100%)
Spark Ang BTDC	-1.0 °	Engine Ignition Timing
Block Pressure	0.27 PSI	Engine Block Water Pressure
Available PWR %	4.7 %	Values <100% Indicate Potential Problems
Lake/Sea Temp	-58.0 °F	Lake or Sea Water Temperature
Paddle Wheel	0.00	Frequency For Speed Calculation
Baro Pressure	14.58 PSI	Barometric Pressure Read At Key Up
FPC Total	0.0	Fuel per Cycle Per Cylinder Total
Demand %	0.0 %	Position of remote control lever
Oil Temp	89.6 °F	Engine Oil Temperature
Sup Chg Temp	93.2 °F	Supercharger Outlet Temperature
Boost PWM %	94.0 %	Boost Control Valve Pulse Width Modulation %
Block Temp	89.6 °F	Engine Block Temperature
Head Temp	32.0 °F	Cylinder Head Temperature
Boost Pressure	0.01 PSI	Pressure in the intake system above atmospheric
ECT	32.0 °F	
ECT	32.0 °F	



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Miscellaneous

Current Engine Location Setting: Outside Port

ECM hardware ID: 1B

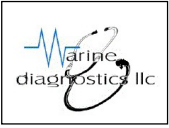
Fault texts: [03] Stored in ECM

ECM Subsystem configurations: F6 0D A9 80 C8 03 78 D1 11 95 C7 11 00 F3 5F 01

Output tests, Special Functions, & Misc tests:

- Not Supported : Direct injector
- Supported : Electronic shift
- Supported : Electronic throttle
- Supported : Oil Pump Prime
- Not Supported : Warning Buzzer
- Supported : Knock sensor(s)
- Not Supported : Oil pump prime
- Supported : Main power relay
- Not Supported : Secondary fuel injector set
- Supported : Start relay
- Not Supported : Port tab relay
- Not Supported : Starboard tab relay
- Supported : Tachometer Link Configuration
- Not Supported : TDC Offset
- Supported : Trailer Limit
- Supported : Trim relay test


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MEDS system ID

Software Version : MEDS 6.0 Reference Assembly (Aug 29 2012, 13:57:17)
Manufacturer : CDI Electronics
Product : USB-ECM Int. 534-0110C
Serial Number : 12082001

MEDSCheck version 05/30/2012 17:23:08

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