

## ENGINE MAINTENANCE WORKSHEET - SBC

DATE: 2-9-13  
 HOBBS: \_\_\_\_\_

HOT LASH SETTING: 0.018" - I / 0.018" - E  
 COLD LASH SETTING: 0.015" - I / 0.011" - E

SBC firing order: 1-8-4-3-6-5-7-2

	<u>Spring PSI</u>	<u>Lash HOT</u>	<u>Lash COLD</u>
#1 - E	_____	_____	_____
#1 - I	_____	_____	_____
#3 - I	_____	_____	_____
#3 - E	_____	_____	_____
#5 - E	_____	_____	_____
#5 - I	_____	_____	_____
#7 - I	_____	_____	_____
#7 - E	_____	_____	_____

	<u>Spring PSI</u>	<u>Lash HOT</u>	<u>Lash COLD</u>
#2 - E	_____	_____	_____
#2 - I	_____	_____	_____
#4 - I	_____	_____	_____
#4 - E	_____	_____	_____
#6 - E	_____	_____	_____
#6 - I	_____	_____	_____
#8 - I	_____	_____	_____
#8 - E	_____	_____	_____

	<u>LEAK DOWN PSI</u>	<u>COMP PSI</u>
#1	<u>2%</u>	<u>185</u>
#3	<u>1%</u>	<u>190</u>
#5	<u>0%</u>	<u>190</u>
#7	<u>2%</u>	<u>185</u>

	<u>LEAK DOWN PSI</u>	<u>COMP PSI</u>
#2	<u>2%</u>	<u>190</u>
#4	<u>2%</u>	<u>185</u>
#6	<u>1%</u>	<u>190</u>
#8	<u>2%</u>	<u>190</u>

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# CHASSIS SETUP SHEET

DATE: 6-29-13  
 CAR: BNS MONTE CARLO #69  
 TRACK: SUMMIT POINT & VER

<u>LF</u>	
Tire Pressure:	<u>30 PSI</u>
Tire Size:	<u>HOOSIER HSC</u>
Shock Compression:	
Shock Rebound:	
Spring Rate:	<u>650</u>
Anti-Dive & Slugs:	<u>0.5" (0-0)</u>
Camber & Shims:	<u>-2 3/4° (1/4 + 1/8)</u>
Caster & Slugs:	<u>+5 1/4° (0-0)</u>
Ride Height:	<u>5 3/8"</u>
Upper A-Arm Angle:	<u>20.2°</u>
Wheel Spacers:	<u>1/8"</u>

<u>RF</u>	
Tire Pressure:	<u>30 PSI</u>
Tire Size:	<u>HOOSIER HSC</u>
Shock Compression:	
Shock Rebound:	
Spring Rate:	<u>650</u>
Anti-Dive & Slugs:	<u>0.5" (0-0)</u>
Camber & Shims:	<u>-2 3/4° (1/4)</u>
Caster & Slugs:	<u>+5 1/4° (1/8 - 1/8)</u>
Ride Height:	<u>5 5/8"</u>
Upper A-Arm Angle:	<u>19.9°</u>
Wheel Spacers:	<u>1/8" + 1/8"</u>

Front Valence Height:	LF= <u>4"</u>	RF= <u>4 1/8"</u>
Front / Rear Brake Bias:	FRONT: _____	REAR: _____
Front Toe-Out:	<u>3/16"</u>	
Front Sway Bar:	<u>1 3/16"</u>	HOLLOW / NEUTRAL
Rear Sway Bar:	<u>0.900"</u>	SOLID / NEUTRAL
Rear End Ratio:	<u>3.75:1</u>	
Rear Pinion Angle:	<u>3.5° DOWN</u>	SHIM: <u>~2.0°</u>
Track Bar Height:	LR= <u>10 3/4"</u>	RR= <u>10 7/8"</u>
Fuel Level:	<u>FULL</u>	

<u>LR</u>	
Tire Pressure:	<u>30 PSI</u>
Tire Size:	<u>HOOSIER HSC</u>
Shock Compression:	
Shock Rebound:	
Spring Rate:	<u>375</u>
Camber:	<u>-0.5°</u>
Ride Height:	<u>6 1/4"</u>
Trailing Arm Angle:	<u>0.8° ↑ REAR</u>
Wheel Spacers:	<u>1/8" + 1/8"</u>

<u>RR</u>	
Tire Pressure:	<u>30 PSI</u>
Tire Size:	<u>HOOSIER HSC</u>
Shock Compression:	
Shock Rebound:	
Spring Rate:	<u>375</u>
Camber:	<u>-0.5°</u>
Ride Height:	<u>6 5/8"</u>
Trailing Arm Angle:	<u>0.6° ↑ REAR</u>
Wheel Spacers:	<u>1/8" + 1/8"</u>

w/DRIVER @ <u>230</u>	LF Weight: <u>848</u>	<u>50.5%</u>	RF Weight: <u>905</u>
	LR Weight: <u>855</u>	<u>49.8%</u>	RR Weight: <u>879</u>
	Cross Weight (LF+RR): <u>1727</u>		Right-Side Weight (RF+RR): <u>1784</u>
	Front Weight (LF+RF): <u>1753</u>		TOTAL (LF+RF+LR+RR): <u>3467</u>

NOTES: \* TOTAL TIME ON RINGWAY = 34.0 HOURS  
 \* CHANGED ROTORS & PADS [TORQUE 124 in/lbs]  
 \* BLEED FRONT BRAKES  
 \* DRAINED OILS, SERVED STAR COVER, REPELLED  
 \* CLEANED PAINT, FIXED LOWER GROUND TAIL SEATS

Track/Event: Summit Point / Trake Daze

Date: 7/7/13

Time: 0940

(1)

Weather & Conditions: Sunny / 85°

### Lap Times:

- |   |                                 |
|---|---------------------------------|
| 1) <u>1</u> (m) <u>50</u> . <u>66</u> (s) | 11) _____ (m) _____ . _____ (s) |
| 2) <u>1</u> (m) <u>29</u> . <u>98</u> (s) | 12) _____ (m) _____ . _____ (s) |
| 3) <u>1</u> (m) <u>28</u> . <u>92</u> (s) | 13) _____ (m) _____ . _____ (s) |
| 4) <u>1</u> (m) <u>25</u> . <u>21</u> (s) | 14) _____ (m) _____ . _____ (s) |
| 5) <u>1</u> (m) <u>44</u> . <u>79</u> (s) | 15) _____ (m) _____ . _____ (s) |
| 6) _____ (m) _____ . _____ (s)            | 16) _____ (m) _____ . _____ (s) |
| 7) _____ (m) _____ . _____ (s)            | 17) _____ (m) _____ . _____ (s) |
| 8) _____ (m) _____ . _____ (s)            | 18) _____ (m) _____ . _____ (s) |
| 9) _____ (m) _____ . _____ (s)            | 19) _____ (m) _____ . _____ (s) |
| 10) _____ (m) _____ . _____ (s)           | 20) _____ (m) _____ . _____ (s) |

### LEFT FRONT

Outside	Middle	Inside
°F	°F	°F

Cold: 21 (psi) Hot: 27 (psi)

### RIGHT FRONT

Inside	Middle	Outside
°F	°F	°F

Cold: 21 (psi) Hot: 27 (psi)

### LEFT REAR

Outside	Middle	Inside
°F	°F	°F

Cold: 19 (psi) Hot: 25 (psi)

### RIGHT REAR

Inside	Middle	Outside
°F	°F	°F

Cold: 19 (psi) Hot: 23 (psi)

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

HOBBS START: 0940  
 HOBBS STOP: 1010 *30 min*

MILES: 10

ENGINE OIL TEMP: 180  
 ENGINE WATER TEMP: 180

BRAKE ROTOR TEMP (LF/RF): 1  
 BRAKE ROTOR TEMP (LR/RR): 1

Track/Event: Summit Race (Track Day)

2

Date: 7/6/13

Time: 1300

Weather & Conditions: Sunny / 91

### Lap Times:

- 1) 1 (m) 35 . 46 (s)
- 2) 1 (m) 27 . 63 (s)
- 3) 1 (m) 28 . 75 (s)
- 4) 1 (m) 27 . 81 (s)
- 5) 1 (m) 28 . 94 (s)
- 6) 1 (m) 25 . 81 (s)
- 7) 1 (m) 25 . 56 (s)
- 8) 1 (m) 26 . 52 (s)
- 9) 1 (m) 25 . 05 (s)
- 10) 1 (m) 25 . 56 (s)

- 11) 1 (m) 25 . 42 (s)
- 12) 1 (m) 26 . 35 (s)
- 13) 1 (m) 40 . 73 (s) *cool down*
- 14) ~~\_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)~~
- 15) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 16) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 17) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 18) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 19) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 20) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)

### LEFT FRONT

Outside	Middle	Inside
°F	°F	°F

Cold: 21 (psi) Hot: 30 (psi)

### RIGHT FRONT

Inside	Middle	Outside
°F	°F	°F

Cold: 21 (psi) Hot: 29 (psi)

### LEFT REAR

Outside	Middle	Inside
°F	°F	°F

Cold: 19 (psi) Hot: 26 (psi)

### RIGHT REAR

Inside	Middle	Outside
°F	°F	°F

Cold: 19 (psi) Hot: 26 (psi)

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

HOBBS START: 1310  
HOBBS STOP: 1335 *25 min*

MILES: 26

ENGINE OIL TEMP: 190  
ENGINE WATER TEMP: 210

TOTAL TIME ON OIL FILTER = 1.5  
TOTAL TIME = 1.0  
TOTAL MILEAGE = 36

BRAKE ROTOR TEMP (LF/RF): 1  
BRAKE ROTOR TEMP (LR/RR): 1

Track/Event: VIR/GRM ~~UTCC~~ UTCC

Date: 7/19/2013

Time: 9:00am

Weather & Conditions: Sunny, Hot, Humid (aka Miserable) 85°/68%RH

### Lap Times:

- 1) 2 (m) 24 . 46 (s)
- 2) 2 (m) 13 . 59 (s)
- 3) 2 (m) 13 . 04 (s)
- 4) 2 (m) 12 . 15 (s)
- 5) 2 (m) 11 . 45 (s)
- 6) 2 (m) 11 . 30 (s)
- 7) 2 (m) 11 . 23 (s)
- 8) 2 (m) 11 . 07 (s)
- 9) 2 (m) 11 . 28 (s)
- 10) 3 (m) 12 . 17 (s)

- 11) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 12) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 13) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 14) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 15) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 16) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 17) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 18) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 19) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 20) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)

### LEFT FRONT

Outside	Middle	Inside
<del>144.5</del> 144.5 °F	149.2 °F	158.4 °F

Cold: 21 (psi) Hot: 28 (psi)

### RIGHT FRONT

Inside	Middle	Outside
156.0 °F	153.1 °F	137.9 °F

Cold: 21 (psi) Hot: 28 (psi)

### LEFT REAR

Outside	Middle	Inside
128.6 °F	130.3 °F	135.0 °F

Cold: 19 (psi) Hot: 25 (psi)

### RIGHT REAR

Inside	Middle	Outside
133.9 °F	136.6 °F	128.2 °F

Cold: 19 (psi) Hot: 25 (psi)

Notes: per John car is pushing bad  
 Running: 9:00am - 9:25am  
11:25am - 11:45am  
1:50pm - 2:10pm  
3:40 - 4:00pm

HOBBES START: \_\_\_\_\_  
HOBBES STOP: \_\_\_\_\_ 23 min

MILES: 32.7

ENGINE OIL TEMP: 200  
ENGINE WATER TEMP: 180

BRAKE ROTOR TEMP (LF/RF): /  
BRAKE ROTOR TEMP (LR/RR): /

20 GRM UTCC

Sorted on Best Lap time

GRM UTCC

VIR (full) 3.270 Miles

(A) Warm Up

7/19/2013 09:00 AM

Practice started at 9:02:04

Pos	PIC Class	No. Name	Best Tm	Make-Model	Sponsor
1	1 A	09 Victor Seaber	1:54.153	VIPER Stohr-WF-1.4	Bob Wheless VIPER
2	2 A	08 Max Papis	1:56.264	Wolf-GB08	"Motorsports Southwest
3	3 A	4 Jeff Hawkins	1:58.706	Chevrolet-March Carlo	Northland JCB
4	4 A	90 James Clay	1:58.759	BMW-M3	"BimmerWorld
5	5 A	99 Kevin Conway	2:00.648	Lamborghini-Super Trofeo	Lamborghini Carolinas
6	6 A	12 Scott Knott	2:03.923	Penske-Dodge Charger	CodeBlue/Tax-Whistlebl
7	7 A	48 Robert Grace	2:06.469	BMW-1M	RRT Racing
8	8 A	89 Michael Ellis	2:06.935	Pontiac-Grand Prix	"Teresa's Wine & Beer E
9	9 A	63 Douglas Wind	2:08.756	Dodge-SRT-4	"Modern Performance
10	10 A	5 Trevor Poquette	2:08.819	Factory Five-Cobra Roadster	Poquette Construction &
11	11 A	71 Philip Grabow	2:09.311	Scion-FR-S	Element Tuning
12	12 A	76 Anne Keller	2:10.009	Chevrolet-Corvette Z06	Breasticles
13	13 A	96 Ken Van de Water	2:10.096	BMW-M3	
14	1 B	714 Olivier Raoust	2:10.455	BMW-M3	Raoust+Partners
15	14 A	69 John Orzechowski	2:10.948	Chevrolet-Monte Carlo	
16	15 A	99 Matt McBride	2:11.579	BMW-M3	
17	16 A	49 Brian Vinson	2:13.325	Mustang-GT	Air Lift Performance
18	17 A	14 Liam Dwyer	2:14.094	Ford-Mustang Boss 302	
19	18 A	6 Matt Mullins	2:15.402	BMW-M6	BMW
20	2 B	28 Jason Wistehuff	2:17.131	Subaru-WRX STI	
	19 A	34 Brad Wood	2:19.478	Dodge-Challenger SRT8	Gerry Wood Chrysler Dr
22	20 A	166 Ted Ambrose Jr.	2:22.930	BMW-M3	Yadkin Motorsports
23	21 A	108 Michael Gerowitz	2:24.639	Ford-Mustang GT	Goodyear / GTWorx / Ai
24	22 A	00 Mike Howard		Chevrolet-corvette	
25	23 A	06x Trevor Parmer		BMW-M3	VBD Graphics
26	24 A	17 Ray Cocozziello		Crawford -Daytona Prototype	Quarterly Racing
27	25 A	21 Omar Lopez		Porsche-GT3	"http://www.tpcracing.ne
28	26 A	22 Rick Stavola			
29	27 A	30 Rric Campbell		Dodge-Viper ACR	Campbell Orthodontics
30	28 A	32 Lukas Johnson			
31	29 A	46 Anthony Martin		Backdraft-Backdraft TD	Backdraft Racing/ Iconic
32	30 A	59 Dan Clarke		Porsche-Cayman	
33	31 A	64 Jeffrey Curtis		Porsche-Cayman S	Track Rocket Racing
34	32 A	714 Olivier Raoust		BMW-M3	Raoust+Partners

Announcements

Blue BMW #90 (Clay) has two transponders in car.

Silver Cobra #6 (Backdraft) no transponder.

Cliff Timing & Scoring: James Packer

Orbits

Race Director: Jim Johnson

UTCC Director: Jon Felton

Event Director: Chris Cobetto

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Track/Event: VIR/GRM UTCC

Date: 7/19/2013

Time: 11:25am

Weather & Conditions: Sunny, <sup>Very</sup> Hot, Humid 91°/59% RH

### Lap Times:

- |   |                                 |
|---|---------------------------------|
| 1) <u>3</u> (m) <u>26</u> . <u>19</u> (s) | 11) _____ (m) _____ . _____ (s) |
| 2) <u>2</u> (m) <u>18</u> . <u>31</u> (s) | 12) _____ (m) _____ . _____ (s) |
| 3) <u>2</u> (m) <u>14</u> . <u>18</u> (s) | 13) _____ (m) _____ . _____ (s) |
| 4) <u>3</u> (m) <u>29</u> . <u>15</u> (s) | 14) _____ (m) _____ . _____ (s) |
| 5) _____ (m) _____ . _____ (s)            | 15) _____ (m) _____ . _____ (s) |
| 6) _____ (m) _____ . _____ (s)            | 16) _____ (m) _____ . _____ (s) |
| 7) _____ (m) _____ . _____ (s)            | 17) _____ (m) _____ . _____ (s) |
| 8) _____ (m) _____ . _____ (s)            | 18) _____ (m) _____ . _____ (s) |
| 9) _____ (m) _____ . _____ (s)            | 19) _____ (m) _____ . _____ (s) |
| 10) _____ (m) _____ . _____ (s)           | 20) _____ (m) _____ . _____ (s) |

### ? LEFT FRONT ?

Outside	Middle	Inside
153.0 °F	1.7 °F	159.7 °F

Cold: 21 (psi) Hot: 25 (psi)

### RIGHT FRONT

Inside	Middle	Outside
159.7 °F	151.6 °F	137. °F

Cold: 21 (psi) Hot: 21 (psi)

### LEFT REAR

Outside	Middle	Inside
153 °F	<del>1.7</del> 4 °F	133.6 °F

Cold: 19 (psi) Hot: 22 (psi)

### RIGHT REAR

Inside	Middle	Outside
131. °F	132.0 °F	129.8 °F

Cold: 19 (psi) Hot: 24 (psi)

Notes: session ended @ 11:43  
- car on fire - caution out on lap 23

HOBBS START: \_\_\_\_\_  
HOBBS STOP: \_\_\_\_\_ 11.5 min

MILES: 13

ENGINE OIL TEMP: \_\_\_\_\_  
ENGINE WATER TEMP: \_\_\_\_\_

BRAKE ROTOR TEMP (LF/RF): /  
BRAKE ROTOR TEMP (LR/RR): /

2013 GRM UTCC

Sorted on Best Lap time

GRM UTCC

VIR (full) 3.270 Miles

(A) Timed Session #1

7/19/2013 11:25 AM

Qualifying started at 11:26:20

Pos	PIC Class	No. Name	Best Tm	Make-Model	Sponsor
1	1 A	09 Victor Seaber	1:52.745	VIPER Stohr-WF-1.4	Bob Wheless VIPER
2	2 A	08 Max Papis	1:53.924	Wolf-GB08	"Motorsports Southwest
DQ	DQ A	4 Jeff Hawkins	1:54.675	Chevrolet-March Carlo	Northland JCB
4	4 A	17 Ray Coccoziello	1:56.376	Crawford -Daytona Prototype	Quarterly Racing
5	5 A	90 James Clay	1:56.457	BMW-M3	"BimmerWorld
6	6 A	30 Eric Campbell	1:59.278	Dodge-Viper	Campbell Orthodontics
7	7 A	99 Kevin Conway	2:00.532	Lamborghini-Super Trofeo	Lamborghini Carolinas
8	8 A	12 Scott Knott	2:00.919	Penske-Dodge Charger	CodeBlue/Tax-Whistlebl
9	9 A	00 Mike Howard	2:01.426	Chevrolet-corvette	
10	10 A	89 Michael Ellis	2:03.605	Pontiac-Grand Prix	"Teresa's Wine & Beer E
11	11 A	32 Lukas Johnson	2:06.110		
12	12 A	63 Douglas Wind	2:06.877	Dodge-SRT-4	"Modern Performance
13	13 A	5 Trevor Poquette	2:06.935	Factory Five-Cobra Roadster	Poquette Construction &
14	14 A	71 Philip Grabow	2:07.108	Scion-FR-S	Element Tuning
15	15 A	48 Robert Grace	2:07.646	BMW-1M	RRT Racing
16	16 A	64 Jeffrey Curtis	2:10.512	Porsche-Cayman S	Track Rocket Racing
17	1 B	714 Olivier Raoust	2:10.969	BMW-M3	Raoust+Partners
18	17 A	49 Brian Vinson	2:13.460	Mustang-GT	Air Lift Performance
DQ	DQ A	76 Anne Keller	2:13.608	Chevrolet-Corvette Z06	Breasticles
20	19 A	99 Matt McBride	2:13.633	BMW-M3	
22	20 A	69 John Orzechowski	2:14.178	Chevrolet-Monte Carlo	
22	2 B	28 Jason Wistehuff	2:14.779	Subaru-WRX STI	
23	21 A	96 Ken Van de Water	2:16.457	BMW-M3	
24	22 A	6 Matt Mullins	2:20.263	BMW-M6	BMW
25	23 A	166 Ted Ambrose Jr.	2:22.333	BMW-M3	Yadkin Motorsports
26	24 A	34 Brad Wood	2:22.424	Dodge-Challenger SRT8	Gerry Wood Chrysler Dr
27	25 A	108 Michael Gerowitz	2:25.907	Ford-Mustang GT	Goodyear / GTWorx / Ar
DQ	DQ A	46 Anthony Martin		Backdraft-Backdraft TD	Backdraft Racing/ Iconic
29	27 A	06x Trevor Parmer		BMW-M3	VBD Graphics
30	28 A	14 Liam Dwyer		Ford-Mustang Boss 302	
31	29 A	21 Omar Lopez		Porsche-GT3	"http://www.tpcracing.ne
32	30 A	22 Rick Stavola			
33	31 A	30 Rric Campbell		Dodge-Viper ACR	Campbell Orthodontics
34	32 A	59 Dan Clarke		Porsche-Cayman	
35	33 A	714 Olivier Raoust		BMW-M3	Raoust+Partners

Announcements

#17 and #64 have low charges on their transponders - please charge 'em up!

Chief of Timing & Scoring: James Packer

Race Director: Jim Johnson

UTCC Director: Jon Felton

Event Director: Chris Cobetto

Printed: 7/19/2013 11:58:37 AM

Orbits

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Track/Event: VIR/GRM UTCC

Date: 7/19/2013

Time: 1:58pm 2:20pm (Running late)

Weather & Conditions: Sunny, Very, very hot ~~93°F~~ / 54% RH  
95°

### Lap Times:

- |   |                                 |
|---|---------------------------------|
| 1) <u>4</u> (m) <u>01</u> . <u>39</u> (s)                 | 11) _____ (m) _____ . _____ (s) |
| 2) <u>2</u> (m) <u>17</u> . <u>07</u> (s)                 | 12) _____ (m) _____ . _____ (s) |
| 3) <u>2</u> (m) <u>13</u> . <u>61</u> (s)                 | 13) _____ (m) _____ . _____ (s) |
| 4) <u>2</u> (m) <u>19</u> . <u>71</u> (s)                 | 14) _____ (m) _____ . _____ (s) |
| 5) <u>2</u> (m) <u>13</u> . <u>66</u> (s)                 | 15) _____ (m) _____ . _____ (s) |
| 6) <u>2</u> (m) <u>13</u> . <u>40</u> (s)                 | 16) _____ (m) _____ . _____ (s) |
| 7) <u>2</u> (m) <u>59</u> . <u>71</u> (s) <u>18:18:55</u> | 17) _____ (m) _____ . _____ (s) |
| 8) _____ (m) _____ . _____ (s)                            | 18) _____ (m) _____ . _____ (s) |
| 9) _____ (m) _____ . _____ (s)                            | 19) _____ (m) _____ . _____ (s) |
| 10) _____ (m) _____ . _____ (s)                           | 20) _____ (m) _____ . _____ (s) |

### LEFT FRONT

Outside	Middle	Inside
<u>151.8</u> °F	<u>159.2</u> °F	<u>171.1</u> °F

Cold: 21 (psi) Hot: 26 (psi)

### RIGHT FRONT

Inside	Middle	Outside
<u>170.1</u> °F	<u>161.4</u> °F	<u>152.0</u> °F

Cold: 21 (psi) Hot: 27 (psi)

### LEFT REAR

Outside	Middle	Inside
<u>171.1</u> °F	<u>148.9</u> °F	<u>153.5</u> °F

Cold: 19 (psi) Hot: 24 (psi)

### RIGHT REAR

Inside	Middle	Outside
<u>152.0</u> °F	<u>153.5</u> °F	<u>149.4</u> °F

Cold: 19 (psi) Hot: 25 (psi)

**Notes:** Prior to session start added 9 gallons of fuel  
- session delayed 30 mins but didn't know so John sat in the car for 30 mins before going out  
- No Timing Sheet Produced  
- skipped last session - too hot but session was only ~7 mins due to crash

HOBBS START: \_\_\_\_\_  
HOBBS STOP: \_\_\_\_\_ 18 m.d

MILES: 23

ENGINE OIL TEMP: 210  
ENGINE WATER TEMP: 190

BRAKE ROTOR TEMP (LF/RF): /  
BRAKE ROTOR TEMP (LR/RR): /

Home 2013 GRM UTCC (A) Timed Session # 2

# (A) Timed Session #2

Location VIR (full) Date 19-07-2013 15:50 Best lap time 01:52.981 In lap 3  
 Length 3.2700 Miles Best speed 104.195 By competitor Victor S

pos	start no.	competitor	laps	total time	diff	best time	best lap	best speed
1	09	<a href="#">Victor Seaber</a>	6			01:52.981	3	104.195
2	08	<a href="#">Max Papis</a>	5		00.839	01:53.820	4	103.426
3	4	<a href="#">Jeff Hawkins</a>	5		02.210	01:55.191	4	102.195
4	90	<a href="#">James Clay</a>	5		04.188	01:57.169	3	100.47
5	00	<a href="#">Mike Howard</a>	4		05.385	01:58.366	4	99.454
6	99	<a href="#">Kevin Conway</a>	6		05.778	01:58.759	5	99.125
7	30	<a href="#">Eric Campbell</a>	5		06.254	01:59.235	4	98.729
8	12	<a href="#">Scott Knott</a>	6		08.625	02:01.606	5	96.804
9	17	<a href="#">Ray Cocozziello</a>	2		10.367	02:03.348	2	95.437
10	89	<a href="#">Michael Ellis</a>	5		11.198	02:04.179	5	94.799
11	21	<a href="#">Omar Lopez</a>	6		12.401	02:05.382	4	93.889
12	5	<a href="#">Trevor Poquette</a>	4		12.423	02:05.404	4	93.873
13	63	<a href="#">Douglas Wind</a>	3		12.659	02:05.640	3	93.696
14	32	<a href="#">Lukas Johnson</a>	3		13.720	02:06.701	3	92.912
15	48	<a href="#">Robert Grace</a>	6		13.931	02:06.912	4	92.757
16	56	<a href="#">Dan Clarke</a>	4		14.807	02:07.788	3	92.121
17	64	<a href="#">Jeffrey Curtis</a>	6		14.902	02:07.883	6	92.053
	22	<a href="#">Rick Stavola</a>	DQ 4		17.312	02:10.293	3	90.35
19	96	<a href="#">Ken Van de Water</a>	6		17.410	02:10.391	5	90.282
	76	<a href="#">Anne Keller</a>	DQ 5		18.471	02:11.452	4	89.554
21	714	<a href="#">Olivier Raoust</a>	5		19.041	02:12.022	4	89.167
22	99	<a href="#">Matt McBride</a>	6		20.169	02:13.150	5	88.412
23	69	<a href="#">John Orzechowski</a>	6		20.377	02:13.358	6	88.274
24	14	<a href="#">Liam Dwyer</a>	6		20.834	02:13.815	5	87.972
25	6	<a href="#">Matt Mullins</a>	6		21.503	02:14.484	5	87.535
26	06x	<a href="#">Trevor Parmer</a>	6		21.804	02:14.785	5	87.339
27	49	<a href="#">Brian Vinson</a>	4		23.211	02:16.192	3	86.437
28	34	<a href="#">Brad Wood</a>	6		26.854	02:19.835	3	84.185
29	108	<a href="#">Michael Gerowitz</a>	6		30.042	02:23.023	5	82.308
30	166	<a href="#">Ted Ambrose Jr.</a>	5		31.185	02:24.166	3	81.656
31	46	<a href="#">Anthony Martin</a>	1			00.000		
32	28	<a href="#">Jason Wistehuff</a>				00.000		
33	30	<a href="#">Eric Campbell</a>				00.000		
34	59	<a href="#">Dan Clarke</a>				00.000		
35	71	<a href="#">Philip Grabow</a>				00.000		
36	121	<a href="#">Eric Wonger</a>				00.000		
37	714	<a href="#">Olivier Raoust</a>				00.000		

Track/Event: VIR/NASA TTU (Time Trial Unlimited)

Date: 7/20/2013

Time: ~~11:00 am~~ 11:45 am

Weather & Conditions: Partly Sunny / Cloud cover ~~As fast as a 19~~  
87° ~~87°~~ / 16990 RTI

### Lap Times:

- 1) 3 (m) 01 . 17 (s)
- 2) 2 (m) 11 . 61 (s)
- 3) 2 (m) 12 . 21 (s)
- 4) 2 (m) 13 . 39 (s)
- 5) 2 (m) 11 . 52 (s)
- 6) 2 (m) 58 . 10 (s) 15:47:
- 7) ~~2~~ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 8) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 9) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 10) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)

- 11) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 12) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 13) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 14) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 15) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 16) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 17) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 18) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 19) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)
- 20) \_\_\_\_\_ (m) \_\_\_\_\_ . \_\_\_\_\_ (s)

### LEFT FRONT

Outside	Middle	Inside
<u>170.1</u> °F	<u>148.0</u> °F	<u>155.3</u> °F

Cold: 21 (psi) Hot: 27 (psi)

### RIGHT FRONT

Inside	Middle	Outside
<u>156.2</u> °F	<u>154.1</u> °F	<u>140.8</u> °F

Cold: 21 (psi) Hot: 28 (psi)

### LEFT REAR

Outside	Middle	Inside
<u>137.6</u> °F	<u>135.8</u> °F	<u>140.1</u> °F

Cold: 19 (psi) Hot: 24 (psi)

### RIGHT REAR

Inside	Middle	Outside
<u>139.6</u> °F	<u>139.5</u> °F	<u>141.5</u> °F

Cold: 19 (psi) Hot: 24 (psi)

### Notes:

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HOBBS START: \_\_\_\_\_  
HOBBS STOP: \_\_\_\_\_ 16 m2

MILES: 20

ENGINE OIL TEMP: 200  
ENGINE WATER TEMP: 180

BRAKE ROTOR TEMP (LF/RF):    /     
BRAKE ROTOR TEMP (LR/RR):    /

2013 VIR Heat Wave

Sorted on Best Lap time

Time Trial

VIR (full) 3.270 Miles

Sat Timed Session #1

7/20/2013 11:05 AM

Qualifying started at 11:44:10

Pos	PIC Class	No.	Name	Best Tm	Make-Model	Sponsor
1	1 TT1	70	Gil Smith	1:57.254	Chevrolet-Z06	Mike Duman Chevrolet
2	1 TTU	30	Eric Campbell	1:59.440	Dodge-Viper ACR	Campbell Orthodontics
3	2 TTU	17	Ray Coccoziello	2:04.153	Chevrolet-GT1	Quarterly Racing
4	1 TT2	3	Joe Moholland	2:05.423	Chevrolet-Corvette	
5	2 TT1	5	Trevor Poquette	2:05.985	Factory Five-Cobra Roadster	Poquette Construction &
6	2 TT2	193	Fredrick Keyser	2:11.185	Porsche-911 RSR 3.8L	Keyser Dentistry
7	3 TTU	69	John Orzechowski	2:11.241	Chevrolet-Monte Carlo	
8	1 TT3	714	Olivier Raoust	2:11.309	BMW-M3	Raoust+Partners
9	1 TTB	332	Steve Walker	2:15.293	Mitsubishi-Evo VIII	"Atlantic Motorsports
10	3 TT1	127	Bret Weber	2:15.525	Chevrolet -Corvette	All Aspects Motorsports
11	3 TT2	100	William Kohut	2:15.866	Chevrolet-Corvette Z06	"Pfadt Race Engineering
12	1 TTD	36	Jon Kozlow	2:16.673	BMW-M3	
13	2 TTB	811	Crawford Anderson	2:16.847	Nissan-350Z	
14	3 TTB	166	Ted Ambrose Jr.	2:17.629	BMW-M3	Yadkin Motorsports
15	1 TTC	24	Jeff Duncan	2:18.809	BMW-M3	K & D Racing
DQ	DQ TTD	41	Aaron Johnson	2:19.016	Mazda-miata	All Aspects Motorsports
17	4 TT2	58	Levent Gokcen	2:20.982	Mazda-RX-7	Trackdecal.com
18	4 TTU	131	Brad Wood	2:24.176	Jeep-Grand Cherokee SRT	Gerry Wood
19	3 TTD	115	Michael Hahm	2:25.180	Subaru-BRZ	
20	4 TTD	32	Bryan Davis	2:26.998	Honda-Civic	"Corbeau Seats
DQ	DQ TT1	111	Michael Summers	2:32.136	Chevrolet-Corvette	
22	5 TTU	00	Mike Howard		Chevrolet-Corvette	
23	6 TTU	17	Ray Coccoziello		Crawford-DP	Quarterly Racing
24	5 TT2	28	Jason Wistehuff		Subaru-WRX STI	
25	1 TTE	56	Douglas Arcidino		Honda-Civic	Folis Jones Racing
26	2 TTC	60	AMID VARGAS		BMW-M3	Advance Medical
27	4 TTB	86	Team Big Kat Racing		Porsche-944 Turbo	
28	7 TTU	209	John Freund		Mitsubishi-Eclipse GSX	
29	2 TT3	381	Troy Truglio		Toyota-MR2	Trueleo Racing llc
30	5 TTB	512	Christopher Wood		Mazda-Miata	self
31	5 TT1	868	edward white		Porsche-996	Vmax Performance

Announcements

#115 (gray BRZ) low charge on transponder

Chief of Timing & Scoring: James Packer

Orbits

Race Director: Jim Johnson

TT Director: Jon Felton

Event Director: Chris Cobetto

www.mylaps.com

Licensed to: NASA Mid Atlantic

Track/Event: VIR/NASA TTU (Time Trial Unlimited)

Date: 7/20/2013

Time: 1:30 pm

Weather & Conditions: Sunny & Hot 91° / 61% RH

### Lap Times:

- |  |                         |
|--|-------------------------|
| 1) <u>3</u> (m) <u>28.72</u> (s)                 | 11) _____ (m) _____ (s) |
| 2) <u>2</u> (m) <u>14.07</u> (s)                 | 12) _____ (m) _____ (s) |
| 3) <u>2</u> (m) <u>11.93</u> (s)                 | 13) _____ (m) _____ (s) |
| 4) <u>2</u> (m) <u>12.28</u> (s)                 | 14) _____ (m) _____ (s) |
| 5) <u>2</u> (m) <u>14.85</u> (s)                 | 15) _____ (m) _____ (s) |
| 6) <u>2</u> (m) <u>14.87</u> (s)                 | 16) _____ (m) _____ (s) |
| 7) <u>3</u> (m) <u>04.78</u> (s) <u>17:41:50</u> | 17) _____ (m) _____ (s) |
| 8) _____ (m) _____ (s)                           | 18) _____ (m) _____ (s) |
| 9) _____ (m) _____ (s)                           | 19) _____ (m) _____ (s) |
| 10) _____ (m) _____ (s)                          | 20) _____ (m) _____ (s) |

### LEFT FRONT

Outside <u>148.0</u> °F	Middle <u>154.9</u> °F	Inside <u>159.2</u> °F
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Cold: 21 (psi) Hot: 26 (psi)

### RIGHT FRONT

Inside <u>169.3</u> °F	Middle <u>160.4</u> °F	Outside <u>156.2</u> °F
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Cold: 21 (psi) Hot: 27 (psi)

### LEFT REAR

Outside <u>140.2</u> °F	Middle <u>140.6</u> °F	Inside <u>136.9</u> °F
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Cold: 19 (psi) Hot: 22 (psi)

### RIGHT REAR

Inside <u>145.4</u> °F	Middle <u>146.5</u> °F	Outside <u>136.9</u> °F
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Cold: 19 (psi) Hot: 24 (psi)

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

HOBBS START: \_\_\_\_\_  
HOBBS STOP: \_\_\_\_\_ 18 min

MILES: 23

ENGINE OIL TEMP: 210  
ENGINE WATER TEMP: 190

BRAKE ROTOR TEMP (LF/RF): 1  
BRAKE ROTOR TEMP (LR/RR): 1

20 IR Heat Wave

Sorted on Best Lap time

Time Trial

VIR (full) 3.270 Miles

Sat Timed Session #2

7/20/2013 12:40 PM

Qualifying started at 13:23:04

Pos	PIC Class	No.	Name	Best Tm	Make-Model	Sponsor
1	1 TT1	70	Gil Smith	1:57.811	Chevrolet-Z06	Mike Duman Chevrolet
2	1 TTU	30	Eric Campbell	1:59.658	Dodge-Viper ACR	Campbell Orthodontics
3	2 TT1	5	Trevor Poquette	2:04.611	Factory Five-Cobra Roadster	Poquette Construction ll
4	1 TT2	193	Fredrick Keyser	2:10.568	Porsche-911 RSR 3.8L	Keyser Dentistry
DQ	DQ TTU	69	John Orzechowski	2:12.471	Chevrolet-Monte Carlo	
6	3 TT1	127	Bret Weber	2:15.508	Chevrolet -Corvette	All Aspects Motorsports
7	1 TTB	332	Steve Walker	2:15.545	Mitsubishi-Evo VIII	"Atlantic Motorsports
8	1 TTD	36	Jon Kozlow	2:15.805	BMW-M3	
9	1 TTC	24	Jeff Duncan	2:17.269	BMW-M3	K & D Racing
10	2 TTB	811	Crawford Anderson	2:17.606	Nissan-350Z	
11	2 TT2	100	William Kohut	2:17.850	Chevrolet-Corvette Z06	"Pfadt Race Engineering
12	2 TTD	41	Aaron Johnson	2:18.724	Mazda-miata	All Aspects Motorsports
13	3 TTB	166	Ted Ambrose Jr.	2:18.768	BMW-M3	Yadkin Motorsports
14	4 TT1	111	Michael Summers	2:19.709	Chevrolet-Corvette	
15	3 TTD	115	Michael Hahm	2:25.927	Subaru-BRZ	
16	4 TTD	32	Bryan Davis	2:28.589	Honda-Civic	"Corbeau Seats
17	1 TTE	56	Douglas Arcidino	2:34.638	Honda-Civic	Folis Jones Racing
18	1 TT3	714	Olivier Raoust		BMW-M3	Raoust+Partners
19	3 TTU	00	Mike Howard		Chevrolet-Corvette	
	3 TT2	3	Joe Moholland		Chevrolet-Corvette	
21	4 TTU	17	Ray Coccoziello		Chevrolet-GT1	Quarterly Racing
22	5 TTU	17	Ray Coccoziello		Crawford-DP	Quarterly Racing
23	4 TT2	28	Jason Wistehuff		Subaru-WRX STI	
24	5 TT2	58	Levent Gokcen		Mazda-RX-7	Trackdecal.com
25	2 TTC	60	AMID VARGAS		BMW-M3	Advance Medical
26	4 TTB	86	Team Big Kat Racing		Porsche-944 Turbo	
27	6 TTU	131	Brad Wood		Jeep-Grand Cherokee SRT	Gerry Wood
28	7 TTU	209	John Freund		Mitsubishi-Eclipse GSX	
29	2 TT3	381	Troy Truglio		Toyota-MR2	Trueleo Racing llc
30	5 TTB	512	Christopher Wood		Mazda-Miata	self
31	5 TT1	868	edward white		Porsche-996	Vmax Performance

Announcements

Car #115 (gray BRZ) transponder charge level is weak.

Track/Event: VIR/NASA TTU (Time Trial Unlimited)

Date: 7/20/2013

Time: 11:02 am

Weather & Conditions: Sunny & Hot - Slight Breeze

### Lap Times:

- |  |                         |
|--|-------------------------|
| 1) <u>3</u> (m) <u>56.95</u> (s)                 | 11) _____ (m) _____ (s) |
| 2) <u>2</u> (m) <u>13.67</u> (s)                 | 12) _____ (m) _____ (s) |
| 3) <u>2</u> (m) <u>13.96</u> (s)                 | 13) _____ (m) _____ (s) |
| 4) <u>2</u> (m) <u>15.35</u> (s)                 | 14) _____ (m) _____ (s) |
| 5) <u>2</u> (m) <u>14.69</u> (s)                 | 15) _____ (m) _____ (s) |
| 6) <u>2</u> (m) <u>14.88</u> (s)                 | 16) _____ (m) _____ (s) |
| 7) <u>2</u> (m) <u>16.62</u> (s)                 | 17) _____ (m) _____ (s) |
| 8) <u>4</u> (m) <u>49.97</u> (s) <u>22:16:09</u> | 18) _____ (m) _____ (s) |
| 9) _____ (m) _____ (s)                           | 19) _____ (m) _____ (s) |
| 10) _____ (m) _____ (s)                          | 20) _____ (m) _____ (s) |

### LEFT FRONT

Outside	Middle	Inside
<u>145.4</u> °F	<u>150.5</u> °F	<u>152.2</u> °F

Cold: 21 (psi) Hot: 26 (psi)

### RIGHT FRONT

Inside	Middle	Outside
<u>141.5</u> °F	<u>141.1</u> °F	<u>131.6</u> °F

Cold: 21 (psi) Hot: 27 (psi)

### LEFT REAR

Outside	Middle	Inside
<u>148.0</u> °F	<u>141.0</u> °F	<u>147.5</u> °F

Cold: 19 (psi) Hot: 22 (psi)

### RIGHT REAR

Inside	Middle	Outside
<u>142.2</u> °F	<u>139.3</u> °F	<u>137.3</u> °F

Cold: 19 (psi) Hot: 23 (psi)

Notes: Prior to session added 12.5 gallons of fuel; 7/20 evening session cancelled due to storm

Tires this session was 8 complete heat sessions - tires were worn prior to session - driver took no unnecessary maneuvers

HOBBS START: \_\_\_\_\_  
HOBBS STOP: \_\_\_\_\_ 22 m/zl

MILES: 26

ENGINE OIL TEMP: 200  
ENGINE WATER TEMP: 180

TOTAL TIME ON OIL/FUEL = 3.5  
TOTAL TIME = 2.0  
TOTAL MILEAGE = 140

BRAKE ROTOR TEMP (LF/RF): 229 / 295  
BRAKE ROTOR TEMP (LR/RR): 201 / 201

Home 2013 VIR Heat Wave Sun Timed Session #2

## Sun Timed Session #2

Location VIR (full) Date 21-07-2013 12:55 Best lap time 01:57.575 In lap 3  
 Length 3.2700 Miles Best speed 100.123 By competitor Gil

pos	start no.	competitor	laps	total time	diff	best time	best lap	best spee
1	70	<a href="#">Gil Smith</a>	3			01:57.575	3	100.123
2	30	<a href="#">Eric Campbell</a>	5		00.636	01:58.211	5	99.585
3	17	<a href="#">Ray Cocozziello</a>	8		01.232	01:58.807	4	99.085
4	5	<a href="#">Trevor Poquette</a>	3		05.469	02:03.044	3	95.673
5	714	<a href="#">Olivier Raoust</a>	4		10.136	02:07.711	4	92.177
6	209	<a href="#">John Freund</a>	4		11.964	02:09.539	3	90.876
7	193	<a href="#">Fredrick Keyser</a>	6		12.329	02:09.904	3	90.621
8	127	<a href="#">Bret Weber</a>	7		14.492	02:12.067	6	89.137
9	69	<a href="#">John Orzechowski</a>	7		16.082	02:13.657	2	88.076
10	100	<a href="#">William Kohut</a>	5		16.118	02:13.693	5	88.052
11	24	<a href="#">Jeff Duncan</a>	5		17.200	02:14.775	2	87.346
12	36	<a href="#">Jon Kozlow</a>	7		17.562	02:15.137	3	87.112
13	58	<a href="#">Levent Gokcen</a>	5		18.993	02:16.568	4	86.199
14	811	<a href="#">Crawford Anderson</a>	4		19.442	02:17.017	4	85.916
15	512	<a href="#">Christopher Wood</a>	4		19.823	02:17.398	4	85.678
16	41	<a href="#">Aaron Johnson</a>	5		20.474	02:18.049	3	85.274
17	60	<a href="#">Amid Vargas</a>	3		20.532	02:18.107	3	85.238
18	166	<a href="#">Ted Ambrose Jr.</a>	5		21.204	02:18.779	4	84.826
19	332	<a href="#">Steve Walker</a>	4		23.546	02:21.121	3	83.418
20	131	<a href="#">Brad Wood</a>	7		24.904	02:22.479	2	82.623
21	115	<a href="#">Michael Hahm</a>	7		28.586	02:26.161	2	80.541
22	32	<a href="#">Bryan Davis</a>	4		28.727	02:26.302	3	80.464
23	00	<a href="#">Mike Howard</a>				00.000		
24	3	<a href="#">Joe Moholland</a>				00.000		
25	17	<a href="#">Ray Cocozziello</a>				00.000		
26	28	<a href="#">Jason Wistehuff</a>				00.000		
27	56	<a href="#">Douglas Arcidino</a>				00.000		
28	86	<a href="#">Team Big Kat Racing</a>				00.000		
29	111	<a href="#">Michael Summers</a>				00.000		
30	381	<a href="#">Troy Truglio</a>				00.000		
31	868	<a href="#">Edward White</a>				00.000		

## Announcements

Weak transponder in #131 (Grand Cherokee) - please charge it up!





# MOBILE OIL ANALYSIS REPORT

CONTAMINATION  
WEAR  
OIL CONDITION

**NORMAL**  
**NORMAL**  
**NORMAL**

## 69 - Front Gasoline Engine

Unit Make : CHEVY

Unit Model : MONTE CARLO

Comp Make : CHEVY

Comp Model : 350

Serial No : BTK-350

Cust. Ref No. : {n/a}

Stub No. : WC-M1165533

Date Rec'd : Aug 9, 2013

Sample Date : Jul 21, 2013

Diagnostician : Jonathan Hester

### RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	11/28/10	11/27/11	11/25/12	Current	UOM
Time on Unit	29	31	33.5	37	hrs
Time on Oil	2	2	2.5	3.5	hrs
Time on Fltr	2	2	2.5	3.5	hrs
Oil Maint.	changed	changed	changed	changed	---
Filter Maint.	changed	changed	changed	changed	---

### CONTAMINATION

There is no indication of any contamination in the component.

Sample Date	11/28/10	11/27/11	11/25/12	Current	Abn
Silicon	8.2	8.4	8.1	8.1	30
Potassium	0.0	0.0	0.0	2.0	20
Sodium	384	342	351	412	80
Fuel (%)	<2.0	<2.0	<2.0	<2.0	4.0
Glycol	---	---	---	---	0.06
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
Soot (%)	0	0	0	0	3
Sulfation (%)	10	9	9	7	100
Nitration (%)	5	5	5	3	100

### WEAR

All component wear rates are normal.

Sample Date	11/28/10	11/27/11	11/25/12	Current	Abn
Iron	13	17	21	22	150
Nickel	0.0	0.3	0.8	0.5	5
Chromium	0.8	0.9	1.0	1.1	20
Titanium	12	17	17	21	---
Copper	5.5	4.5	5.7	7.1	155
Aluminum	9.1	14	14	13	40
Tin	0.0	0.0	0.0	0.0	10
Lead	808	873	903	995	50
Silver	0.0	0.0	0.0	0.0	2

### OIL CONDITION

Oil Type: 14 QTS of VALVOLINE ALLCLIMT 20W50

The condition of the oil is acceptable for the time in service.

Sample Date	11/28/10	11/27/11	11/25/12	Current	Base
Boron	0.7	0.4	0.6	0.8	---
Barium	0.0	0.0	0.0	0.0	---
Calcium	1578	1532	1365	1646	---
Magnesium	5.7	3.9	9.5	3.6	---
Molybdenum	2.2	4.3	4.5	3.1	---
Sodium	384	342	351	412	---
Phosphorus	805	810	640	770	---
Sulfur	2356	2231	1951	1710	---
Zinc	844	763	645	764	---
Visc 40°C (cSt)	---	---	---	---	---
Visc 100°C (cSt)	17.11	16.94	16.04	17.5	---
VI	---	---	---	---	---
Oxidation (%)	9	7	9	6	---

<u>Acquired From</u>	<u>Mounted</u>	<u># of Laps</u>	<u>Last Run</u>	<u>Description</u>	<u>MARKED</u>
Phelon Motorsports	12/6/2008	~10	VIR 9/08	Practice	SET 1

		<u>Weight's Outside</u>	<u>Weight's Inside</u>	
Hoosier HSC	FRONT	LF	0.75	1.50 + 1.25
Hoosier HSC	FRONT	RF	0.75	0.75
Hoosier HSC	REAR	LR	0.50	1.25
Hoosier HSC	REAR	RR	0.50	1.00

<u>Heat Cycles</u>	<u>DATE</u>	<u># of Laps</u>	<u>Last Run</u>	<u>Description</u>	<u>MARKED</u>
1	7/7/2013	5	SUMMIT POINT	Beeded Brakes	SET 8
2	7/7/2013	13	SUMMIT POINT	NASA Check Ride	SET 8
3	7/19/2013	10	VIR	GRM UTCC	SET 8
4	7/19/2013	4	VIR	GRM UTCC	SET 8
5	7/19/2013	7	VIR	GRM UTCC	SET 8
6	7/20/2013	6	VIR	NASA TTU	SET 8
7	7/20/2013	7	VIR	NASA TTU	SET 8
8	7/21/2013	8	VIR	NASA TTU	SET 8
9					SET 8
10					SET 8
11					SET 8
12					SET 8
13					SET 8
14					SET 8
15					SET 8

**NOTES:** Ran (2) sessions at Summit Point for NASA Check Ride, PASSED

7/19/2013: GRM UTCC (Timed Event: Best Lap Wins)

7/20/2013: NASA TTU (Time Trial Unlimited); Last session cancelled, storm.

7/21/2013: Session times changed due to storm for prior night.

4/25/2014: Front tires corded at VIR. Dismounted after 8 cycles.