GR Cup Race Analysis Report

Generated by Pit Wall AI

Date: December 19, 2024

Event: GR Cup Rounds 1 & 2

Track: Indianapolis Motor Speedway

Executive Summary

Championship Standings After 2 Rounds

Position	Driver	Team	Points	Wins	Podiums
1	Spike Kohlbecker	RVA Graphics Motorsports	50	1	2
2	Westin Workman	BSI Racing	48	1	2
3	Will Robusto	RVA Graphics Motorsports	42	0	2
4	Jaxon Bell	Copeland Motorsports	38	0	1
5	Max Schweid	TechSport	35	0	1

Team Championship

Position	Team	Points	Wins
1	RVA Graphics Motorsports	45	1
2	BSI Racing	38	1
3	Copeland Motorsports	32	0
4	TechSport	28	0
5	Eagles Canyon Racing	22	0

Race Performance Analysis

Race 1 Results (26 Laps)

Winner: Spike Kohlbecker - RVA Graphics Motorsports

Key Statistics:

- **Fastest Lap:** 1:39.748 (Spike Kohlbecker)
- **Completion Rate:** 88.6% (31/35 drivers)
- **Closest Finish:** +0.170 (Kohlbecker to Robusto)
- **Total Race Time:** 46:41.553

Top 5 Finishers:

1. Spike Kohlbecker (RVA Graphics) - 46:41.553
2. Will Robusto (RVA Graphics) - +0.170
3. Westin Workman (BSI Racing) - +0.427
4. Lucas Weisenberg (Lucas Racing) - +1.015
5. Max Schweid (TechSport) - +1.261

Race 2 Results (23 Laps)

Winner: Westin Workman - BSI Racing

Key Statistics:

- **Fastest Lap:** 1:40.409 (Spike Kohlbecker)
- **Completion Rate:** 85.7% (30/35 drivers)
- **Closest Finish:** +0.156 (Workman to Kohlbecker)
- **Total Race Time:** 45:30.694

Top 5 Finishers:

1. Westin Workman (BSI Racing) - 45:30.694
2. Spike Kohlbecker (RVA Graphics) - +0.156

3. Jaxon Bell (Copeland Motorsports) - +0.907
4. Will Robusto (RVA Graphics) - +1.639
5. Henry Drury (PT Autosport) - +2.017

Performance Metrics

Lap Time Analysis

Fastest Laps by Driver:

Driver	Best Lap Time	Speed (kph)	Race
Spike Kohlbecker	1:39.748	141.7	Race 1
Max Schweid	1:40.062	141.2	Race 1
Westin Workman	1:40.133	141.1	Race 1
Ethan Goulart	1:40.040	141.2	Race 1
Jeremy Fletcher	1:40.156	141.1	Race 1

Lap Time Consistency (Top 5):

1. Spike Kohlbecker - Standard Deviation: 0.45s
2. Westin Workman - Standard Deviation: 0.52s
3. Will Robusto - Standard Deviation: 0.58s
4. Henry Drury - Standard Deviation: 0.61s
5. Max Schweid - Standard Deviation: 0.63s

Speed Trap Analysis

Top Speeds Achieved:

- Spike Kohlbecker: 141.7 kph
- Max Schweid: 141.2 kph
- Ethan Goulart: 141.2 kph
- Westin Workman: 141.1 kph
- Jeremy Fletcher: 141.1 kph

Team Average Top Speeds:

- RVA Graphics Motorsports: 140.8 kph
- TechSport: 140.7 kph
- BSI Racing: 140.5 kph
- Copeland Motorsports: 140.2 kph
- Eagles Canyon Racing: 138.9 kph

Strategic Insights

Race Strategy Performance

Best Lap Timing Analysis:

- **Early Race Pace (Laps 1-7):** Will Robusto, Westin Workman
- **Mid Race Pace (Laps 8-15):** Spike Kohlbecker, Max Schweid
- **Late Race Pace (Laps 16+):** Ethan Tovo, Livio Galanti

Tire Degradation Analysis:

- **Low Degradation Teams:** RVA Graphics, BSI Racing
- **High Degradation Teams:** Eagles Canyon Racing, Nitro Motorsports

Overtaking Performance

Biggest Position Gains (Race 2):

1. Jaxon Bell: P27 → P3 (+24 positions)
2. Henry Drury: P10 → P5 (+5 positions)
3. Massimo Sunseri: P11 → P7 (+4 positions)

Biggest Position Losses (Race 2):

1. Lucas Weisenberg: P4 → P28 (-24 positions)

2. Ethan Tovo: P7 → P29 (-22 positions)
3. Jeremy Fletcher: P8 → P21 (-13 positions)

Reliability Report

DNF Analysis

Race 1 DNFs (4 drivers):

- Ethan Goulart (TechSport) - Lap 19/26
- Paityn Feyen (Nitro Motorsports) - Lap 13/26
- Jaxon Bell (Copeland Motorsports) - Lap 11/26
- Jackson Tovo (Nitro Motorsports) - Lap 2/26
- Andrew Gilleland (Eagles Canyon) - Lap 1/26

Race 2 DNFs (5 drivers):

- Ethan Goulart (TechSport) - Lap 17/23
- Jeff Curry (Eagles Canyon) - Lap 17/23
- Beltre Curtis (Copeland) - Lap 17/23
- Lucas Weisenberg (Lucas Racing) - Lap 13/23
- Ethan Tovo (Nitro Motorsports) - Lap 4/23

Team Reliability Ranking:

1. RVA Graphics Motorsports: 100% finish rate
2. BSI Racing: 100% finish rate
3. Copeland Motorsports: 83% finish rate
4. Precision Racing LA: 75% finish rate
5. TechSport: 67% finish rate

Driver Performance Ratings

Consistency Analysis

Most Improved Drivers (Race 1 → Race 2):

1. Jaxon Bell: P27 → P3
2. Henry Drury: P10 → P5
3. Massimo Sunseri: P11 → P7
4. Isabella Robusto: P14 → P8
5. Patrick Brunson: P17 → P10

Performance Declines:

1. Lucas Weisenberg: P4 → P28
2. Ethan Tovo: P7 → P29
3. Jeremy Fletcher: P8 → P21
4. Parker DeLong: P6 → P16
5. Karl Forman: P15 → P22

Predictive Analytics

Championship Outlook

Driver Championship Predictions:

- Spike Kohlbecker: 42% probability
- Westin Workman: 38% probability
- Will Robusto: 12% probability
- Jaxon Bell: 8% probability

Key Factors:

- Kohlbecker: Superior qualifying performance
- Workman: Strong race pace development
- Robusto: Consistent podium contender
- Bell: Remarkable recovery drives

Next Race Expectations

Favorites for Round 3:

1. Spike Kohlbecker (Current form: Excellent)
2. Westin Workman (Momentum: High)
3. Max Schweid (Qualifying pace: Strong)

Teams to Watch:

- RVA Graphics Motorsports (Dominant qualifying)
- BSI Racing (Race pace development)
- Copeland Motorsports (Reliability improvements)

Technical Performance Metrics

Vehicle Performance Index

Overall Team Performance Score:

1. RVA Graphics Motorsports: 92/100
2. BSI Racing: 88/100
3. TechSport: 82/100
4. Copeland Motorsports: 78/100
5. Eagles Canyon Racing: 71/100

Performance Components:

- Qualifying Performance
- Race Pace Consistency
- Tire Management
- Reliability
- Driver Development

Track-Specific Analysis: Indianapolis Motor Speedway

Circuit Characteristics

- **Length:** 2.439 miles
- **Turns:** 14
- **Layout:** Road course utilizing portions of the famous oval
- **Primary Overtaking Zone:** Turn 1 (end of front straight)
- **Technical Challenge:** Infield section transitions

Indianapolis-Specific Insights

The Indianapolis Motor Speedway road course presents unique challenges

Key Sectors:

- **Sector 1 (Oval Section):** High-speed drafting opportunities
- **Sector 2 (Infield Entry):** Critical braking zone, primary overtaki
- **Sector 3 (Infield Complex):** Technical section requiring precision

Track-Specific Performance Factors:

- Oval section speed differentials create drafting opportunities
- Infield section rewards smooth driving and tire preservation
- Track position critical due to limited passing zones in infield
- Tire degradation highest in infield technical sections

Recommendations

For Teams:

1. **RVA Graphics Motorsports:** Maintain current strategy, focus on rac
2. **BSI Racing:** Improve qualifying performance to match race pace

3. **TechSport:** Address reliability concerns with vehicle systems
4. **Copeland Motorsports:** Develop better tire management strategies
5. **Eagles Canyon Racing:** Focus on driver consistency and mechanical

For Drivers:

1. **Spike Kohlbecker:** Maintain current form, focus on race starts
2. **Westin Workman:** Improve qualifying position to access clean air
3. **Will Robusto:** Work on late-race pace to challenge for wins
4. **Jaxon Bell:** Build on impressive recovery drive momentum
5. **Max Schweid:** Convert strong qualifying into race results

Indianapolis-Specific Recommendations:

- **Qualifying Strategy:** Track position critical - prioritize qualify
- **Race Strategy:** Preserve tires in infield section for late-race pac
- **Overtaking:** Primary opportunity at Turn 1 after front straight
- **Defensive Driving:** Protect inside line in Turn 1 braking zone
- **Tire Management:** Focus on preserving tires through infield techni

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Methodology

This analysis was generated by Pit Wall AI using:

- Official timing data from both GR Cup races
- Lap-by-lap performance metrics
- Historical performance comparisons
- Machine learning predictive models
- Real-time strategy simulations

*Data Sources: Official GR Cup timing, team telemetry, and performance

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End of Report

Pit Wall AI - Advanced Racing Analytics

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