



AFFORDABLE, FUN RACING

Prokart SSS Committee

Prokart SSS Club
37 van Riebeeck Street
Vereeniging

To: Prokart SSS Members

Dear 24 Hour Team,

19th October 2018

24 Hour Update

The Prokart SSS 24 Hour Sub-Committee was entrusted with the task of organizing and executing plans for the first ever Prokart Africa 24 Hour race. Many challenges have been overcome for planning such a large event and we believe that it will be a very enjoyable and memorable event for you and your team. Thank you for your support thus far. We would like to communicate some very important items that you need to pay attention to in order to prepare your team for success. If you have any questions on the below, please contact us for clarification: 24hour@prokartsss.co.za

Friday Unofficial Practise

Laserfiche Raceway will be open on 30th November from 2pm to 9pm for unofficial practice, also giving you a chance to test your lights for the night racing. Your race tyres will be handed out on the day and documentation will be open until 5pm. You will be allowed to practice with your race tyres if you wish, however we do not advise that you do so for more than 15-20 laps, save your tyres for raceday.

Track will be dedicated for Prokart 24 Hour teams only, so you will get a lot of practice time. Practise fees of R350 per kart to be paid to the circuit will apply. You can practice on any other tyre if you so wish as well. There will not be timing available until 1st December.

MG Tyres

The task of finding a suitable tyre for this event was given to the committee. The final tyre of choice, the MG VK Super Hard Compound as the main tyre was chosen based on the following characteristics observed as a result of testing at Laserfiche Raceway on 18 September 2018:

- Tyre is very “forgiving” and allows for good racing and overtaking opportunities
- Tyre is very consistent throughout the entire testing session across all drivers

- Tyre durability seems good with surprising performance compared to others in similar category
- Tyre is conducive to good racing and will accommodate drivers of all skill levels

The data recorded that we will share also supports this tyre choice.


The following data was collected on Tuesday 18th September 2018 at Laserfiche Raceway.

Track	Laserfiche Raceway	Date	18 Sep 2018
Weather	Sunny, Low of 13C and High of 33C		
Track Conditions	Low grip and dirty/dusty surface. Only 1 kart on track for entire day		
Total Running Time	8h35m		
Tyre	MG VK Super Hard Compound		
Tyre Serial	Fronts: 6332669; 6332693 / Rears: 6320742; 6320725		
Tyre Condition	New		
Tyre Tread	Starting with 5mm both Front and Rear		
			
Tyre Pressure Used	1.4 Bar		
Chassis Tested on	Birel Ricciardo / 50mm Axle, 1385mm Rear Width, 20mm Front Spacers. No changes to setup were made.		
Expected Lifespan	Minimum of 650 Laps or 10 Hours		
Manufacturer Data	http://mgtires.com/en/pneus-de-kart/indoor-rental-endurance/vk		
Expected Laptime	55.5s		

<u>Time</u>	<u>Laps</u>	<u>Front Left</u>	<u>Front Right</u>	<u>Rear Left</u>	<u>Rear Right</u>	<u>Comments</u>
8:02	62	5	5	4.5	4.5	
9:20	65	4	4	3.9	3.9	
10:25	65	3.8	3.8	3.7	3.7	
11:28	65	3.8	3.8	3.5	3.5	
12:31	65	3.6	3.6	3.5	3.5	
13:30	68	3.5	3.5	3.5	3.5	
14:45	63	3.0	3.0	3.0	3.0	
15:56	52	2.5	3.0	3.0	3.0	
Kart Repairs required due to chain coming off between 17:00 & 17:45						
17:45	16	2.5	3.0	3.0	3.0	
18:03	32	2.0	2.5	2.5	2.5	
Total Used	553	3mm	2.5mm	2.5mm	2.5mm	

Note: The above mm tread readings taken were conservative readings where the lowest reading was taken when measuring the tyre all around.

Tyre wear observed during the first 3 hours seemed aggressive where tread depth was measured at 3.5mm after the 3rd hour. Thereafter, tyre wear seemed to plateau and remain at 3.5mm for the next 3 hours. From hour 6-8.5 tyre wear went from 3.5mm to 2.5mm. Front left tyre wear was even with Front Right until hour 7, where it became clear that there was additional wear on this tyre compared to the other due to camber difference. Also fair to note is that Laserfiche Raceway is harder on the front left tyre characteristically.

Track	Laserfiche Raceway	Date	May 2018
Weather			
Track Conditions	Low grip and dirty/dusty surface		
Total Running Time	3h30m		
Tyre	MG HZi Hard Compound		
Tyre Condition	New		
Tyre Tread	Starting with 5mm both Front and Rear		
			
Expected Lifespan	Minimum of 160 Laps or 2.5 Hours		
Manufacturer Data	http://mgtires.com/en/pneus-de-kart/homologados-cik-fia/hzi		
Expected Laptime	54.5s		

NOTE: No additional data is available on this tyre as testing conducted was limited and focused on understanding life expectancy together with a harder compound tyre. Life expectancy is of no consequence on this tyre since the VK Super Hard compound is expected to carry the required bulk of the laps required to complete the race. The soft compound is purely intended as a joker tyre to add to the challenge and fun.

Tyre Life Expectancy

Take note that tyre life is dependant on a number of factors. The testing conditions were not aimed at trying to get maximum laptime or optimal kart setup, it was purely focused on getting mileage out of the tyres. Your individual kart setup may affect the life expectancy of your tyres, especially if you run aggressive camber, higher pressures and inconsistent/erratic driving where you are laboring the tyres more than normal i.e. spinning, drifting, going offroad etc.

The softer HZi compound chosen should provide additional fun for teams allowing them to post faster laptimes and you might get a longer lifespan out of the tyres than 2.5 -3 hours. If you are good at saving tyres and making them last longer, you might want to consider this when running the softer compound.

The two harder VK compound tyres that you will receive are expected to take you through the entire 22.5 Hours of total track time without the need for the softer compound at all. It is also expected that night time driving will extend the life of the tyres as well, regardless of the compound you're driving on at the time.

During unofficial practice on 30th November 2018, be sure to take care when determining a setup for your team and it is strongly advised to focus on the long run setup with the hard tyres as opposed to the softer tyres.

In general, if you switch between hard and soft, your kart setup may want to be changed at the same time since you will have more grip with the softer compound. You may want to go wider with your rear and narrower on the front setup as a general rule to avoid too much grip and thus excessive wear.

Tyre Purchasing

The Prokart SSS Club has procured 48 Sets of tyres for this event and may procure more tyres if required based on purchases prior to the event. In order to ensure that everyone has a fair chance to test with these tyres, the following will be enforced:

- Only teams entered for the 24 Hour may purchase a set of tyres
- Only 1 set of each compound per team
- VK = R2500 per set
- HZi = R3000 per set
- Each team that purchases will be recorded with serial numbers and published on the Prokart website for other teams to see
- Teams are welcome to share costs and purchase sets together and share the tyres, this is highly recommended as Prokart is committed to ensure affordable racing. It is also pointless to purchase a full set to test with as you may not even get enough track time to use the full set (10+ Hours).
- Orders to be accepted until 1 November 2018, thereafter no more orders will be taken in order to ensure availability and possible import of additional tyres for the race.
- Purchased tyres MUST be handed back to the Prokart Club prior to qualifying commencing at 10am on 1 December 2018. ALL tyres will be in quarantine and returned to you after the race.

- Send email to 24hour@prokartsss.co.za together with Proof of Payment, stating your purchase (VK and/or HZi) and entered team name.
- Banking Details:
 - Account: Action Karting
Bank Name: Nedbank
Account Number: 1729 327 877
Branch Code: 172-937
 - Reference: TeamName-MGTires

Scrutineering and Technical Compliance

The following scrutineering actions will be taken on 1 December 2018 prior to qualifying and ALL teams must comply or face exclusion from the event:

- All engines declared (including spare engines) MUST have a Prokart SSS valid seal. The seal will be marked "SSS" together with a seal number. You can take your Honda GX390 engine(s) to 4StrokeWorkshop (www.4strokeworkshop.co.za) for dyno and seal. All Prokart SSS sealed engines (Current and Past), seal numbers and serial numbers are kept on record and this data is used to confirm validity of engines being used. **NO VALID SEAL means EXCLUSION. TEMP SEALS will not be accepted, you have been warned.**
- All carburetors should be standard as supplied by 4StrokeWorkshop with a size 92 jet. ALL carburetors will be checked on 30th November and 1st December 2018 prior to qualifying. The procedure of checking will include the following:
 - Bore size will be measured. If found out of OEM spec, then a replacement carb will be issued at competitor expense, unless competitor can provide alternative, valid carb to replace with.
 - Jets will be replaced on all carbs. New jets will be provided to each team on the day at no expense.
 - Carburetor will be sealed by 4StrokeWorkshop personnel
 - Should a carburetor need replacement during the race, same procedure as above must be followed by reporting to 4StrokeWorkshop.
- **Mandatory ENGINE PULL** will be performed on the top 3 finishers for the event, regardless of any prior scrutineer checks being passed during the day. Additional engines may be pulled at the discretion of the COC and race officials. Engines will be sealed in containers and transported to 4StrokeWorkshop in Kempton Park on 2 December 2018. A dyno and engine technical compliance report will be issued to the Prokart Committee by 5 December 2018. Any final results will only be made official once this report is received and accepted by the Committee.
- It is the responsibility of each competitor to know the technical rules and ensure they are compliant. However, a scrutineer will be monitoring all teams during the following intervals:
 - Parc Ferme during qualifying will be subject to technical compliance checks

- Each team has a 3 x 30 minute compulsory stops during the 24 hours and will be subjected to technical compliance checks during each 30 minute stop.
- Any non-compliance will be dealt with according to the Prokart Rules and Penalty Schedule.
 - A reminder that you will be excluded from results for the following:
 - **Any modification not allowed in the 2018 Prokart Africa 24 Hour Technical Regulations or any modification allowing an unfair advantage, or of a dangerous nature**
 - **Broken or tampered with engine seals**

Team and Driver Profiles

All team managers will receive an email notification within the first week of November with a link to an online form requesting the following:

- Confirmed Driver list:
 - Driver Name, Surname, Email Address, Birth Date, Contact Number
- After all drivers are confirmed, an additional link will be emailed to each driver:
 - We will be requesting driver biographical data. This includes answers to some questions about the driver themselves, their racing history (if any) and a picture to be uploaded per driver.

In order to assist the commentators and broadcasting producer with their work, we will collect information about drivers and teams that will aid them in driver and team interviews during the day as well as overlays on the live broadcast when commenting and discussing teams/drivers on the track. Please assist us with as much information as possible to help make this a memorable event for you and your team.

Lights

The race regulations can be consulted for rules around lights on your kart for the race. If you wish to use an alternative power source for your lights, we have developed a mechanism that runs on a magneto that can easily be fitted to your engine as a source of power for your LED lights. If your lights fail, you may lose track time when being pulled off the circuit to repair your lights. Do not take chances.

The club is selling a lighting power package for R2250, which will promise to be a permanent power source while the engine is turning. You won't have to worry about heavy batteries or worry about batteries running out. If you want to know more about this device, contact graeme@4strokeworkshop.co.za or 24hour@prokartsss.co.za

The committee is always dedicated to provide a safe and enjoyable and fair racing experience for all and need your cooperation to help achieve that. We trust that the above information will help you plan for your 24 Hour experience and make it even more enjoyable.

Thank you,

Prokart SSS Committee