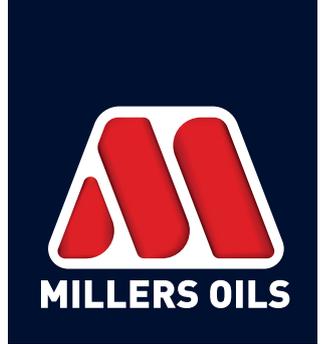


# CASE STUDY: ZFS 4T PERFORMANCE PROVEN AT THE DAKAR RALLY



## When Failure isn't an Option, Performance Matters.

### Overview

Widely regarded as the toughest endurance motorsport event in the world, the Dakar Rally places extreme and sustained demands competitors, vehicles, and lubricants alike. Covering thousands of kilometres across desert, dunes, rock, and extreme heat, Dakar offers no margin for mechanical weakness.

In 2025, Millers Oils, through Polish distributor DIFF, partnered with Polish rally-raid competitor Bartłomiej Tabin to debut an all-new motorcycle lubricant range under the harshest real-world conditions imaginable. This marked the first competitive outing for ZFS 4T Performance, a higher-performance evolution of the established ZFS motorcycle oil range. Following a successful debut at Dakar 2025, Tabin returned for the 2026 event using the same lubricant, reinforcing confidence in its performance at the highest level of endurance motorsport.



## Challenge

The Dakar Rally presents a uniquely severe operating environment for motorcycle engines, including:

- Sustained high temperatures and extended full-load operation
- Fine dust and sand contamination
- Rapidly changing riding conditions across thousands of kilometres
- Minimal margin for mechanical failure

For Millers Oils, the challenge extended beyond reliability alone. ZFS 4T Performance was a pre-launch product, meaning Dakar would serve as both its ultimate proving ground and a critical validation exercise. The lubricant had to deliver consistent protection, maintain performance over extreme distances, and provide confidence to rider and team throughout the event. Failure was not an option.

## Solution

Millers Oils supplied Tabin with ZFS 4T Performance 15W-50, formulated using advanced ester technology and the latest additive chemistry. Key performance objectives included:

- Strong oil film retention under extreme combustion and load
- Thermal stability during prolonged high-temperature operation
- Consistent protection across long, punishing stages
- Reliable performance with minimal degradation over extended use

While ZFS 4T Performance had already undergone extensive laboratory development and testing, Dakar provided validation where controlled testing cannot: real-world endurance racing under continuous maximum stress, combined with direct rider feedback to inform future product development.

## Results

### Dakar Rally 2025

Tabin completed the Dakar Rally with no lubrication-related mechanical issues, finishing 2nd in the Veteran Trophy category and achieving his first Dakar podium. Engine condition remained stable throughout the event, validating the lubricant's ability to deliver consistent protection and performance over thousands of kilometres. This result not only marked a personal milestone for Tabin, but also confirmed ZFS 4T Performance as a lubricant capable of withstanding the most extreme demands in motorcycle motorsport.

## Dakar Rally 2026

In 2026, Tabin returned to Dakar using the same ZFS 4T Performance oil, now proven in competition. There were no lubrication or engine-related issues, and Tabin's decision to return with the same oil underscores his confidence in the product.

*“Dakar is a very demanding challenge at the highest level. That is why I always rely on the most advanced technological solutions. Millers Oils ZFS 4T Performance motorcycle range offers maximum protection for the engine of my bike.”*

— Bartłomiej Tabin

## Why Millers Oils?

Millers Oils approach goes beyond supplying lubricants. Testing at the Dakar Rally reinforced Millers Oils' commitment to developing lubricants through real-world validation, not theoretical limits. This project demonstrated:

**Real-world validation:** Testing products where failure is not an option

**Partnership:** Working closely with riders and teams to gather meaningful performance feedback

**Innovation:** Using motorsport as a development platform for future production lubricants

Through continued support from Millers Oils Polska (DIFF), Millers Oils maintains a strong presence at Dakar, supporting both motorcycle and truck entries in one of the most demanding motorsport environments on the planet.

## From Dakar to Production

The success of ZFS 4T Performance at the Dakar Rally directly influenced the expansion of the range. What began as a limited two-product development has since grown into a seven-product lineup, covering a broader range of viscosities. This expansion reflects the confidence gained through Dakar validation, allowing Millers Oils to bring race-proven technology to a wider audience of high-performance and endurance motorcycle users.