



Quality is in our nature

Eurol Specialty Racing 75W-140

High performance transmission oil for racing applications



RACING

Description

Eurol Specialty Racing 75W-140 is a fully synthetic racing transmission oil based on Eurol SYNGIS Technology. This additive technology ensures high power output and unmatched protection against wear in the most extreme conditions.

Product advantages

- Extreme wear protection, exceptional protection against pitting
- Up to 80% wear reduction, compared with other racing gear oils
- Outstanding detergency, excellent gearbox cleanliness
- Virtually no viscosity loss during use, extending gearbox life
- Outstanding protection of dog clutches, ensuring transmission stays in gear

Application

Developed for competition use. It has been approved for use in gearboxes and differentials, with or without limited-slip capability. Recommended for use in sequential gearboxes with dog clutches.

Eurol Specialty Racing 75W-140 has won awards in:

- WTCR with Comtoyou Racing
- Dakar Rally with Toyota GAZOO Racing and Overdrive Racing

Instructions for use

Flush the transmission or differential using Eurol Additive-S Flush in the old gear oil.

Drain the old oil and change the filter if present.

Note: Eurol Specialty Racing 75W-140 is not recommended for street use. In case of any application-related questions, please visit www.eurol.com/racing

Physical properties

Colour	Red	
Density	0,884 kg/l	ASTM D 1298
Viscosity, kinematic at 40°C	246,4 cSt	ASTM D 445
Viscosity, kinematic at 100°C	31,1 cSt	ASTM D 445
Viscosity Index	166	

technology **SYNGIS**

Version 1.1, 21-06-2021

Art. no. S099004

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APPLICATION SHEET

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Hubs hybrid Dakar truck

RACING

Type of racing: Off road racing
Used product: Eurol Specialty Racing 75W-140
Product code: S099004
Type of vehicle: Renault C-460 hybrid
Product use: Hub reduction gear oil

Performance

Wear reduction

82%

Temperature
reduction

42°C

Description of problem

Flowability issues when using a fluid grease. Also possibility of misapplication between different parts of the truck, such as transfer case, differentials and hub reductions.

Solution

Eurol Specialty Racing 75W-140 can be used in all described systems and offers excellent wear protection and an extreme reduction in friction. Temperatures of the hub reductions were around 180°C when using a highly advanced PAG-based gear oil and dropped to 138°C by switching from to the Racing 75W-140. A massive 42°C of friction was removed from the gearbox.

Customer testimonial

Mario Kress, CEO, MKR Technology: "Gears were as new, amount of wear was negligible, not even visible. Also the oil was in very good condition after the complete Dakar Rally."



Temperature strips applied



Temperature strips triggered

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APPLICATION SHEET

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WTCR sequential gearbox

Type of racing: WTCR
Used product: Eurol Specialty Racing 75W-140
Product code: S099004
Type of vehicle: Audi RS 3 LMS, 2.0 TFSI, 350bhp
Product use: Sequential transmission

Description of problem

The sequential gearbox is equipped with dog clutches as synchronizers. These dog clutches are often subject to high wear, as they need to engage while the vehicle is operating under high load.

Solution

Eurol Specialty Racing 75W-140 is capable of absorbing the shocks and will keep the dog clutches intact. Also, overall friction in the gearbox is reduced, resulting in a lower operating temperature. Temperature evolution in the gearbox was tested at Zolder, Belgium and for Racing 75W-140 was found to be +1,7°C/lap, compared to +2,8°C/lap for ELF HTX 755.

Customer testimonial

François Verbist, Team Manager, Comtoyou Racing: "During races, the new Eurol transmission oil reached lower temperature. The gearbox lubricated with Racing 75W-140 was the only gearbox which did not have issues throughout the season. Wear was spectacularly less, normally all parts are worn after the season but now we will just replace the bearings and the final drive gear to make it ready for competition."

RACING

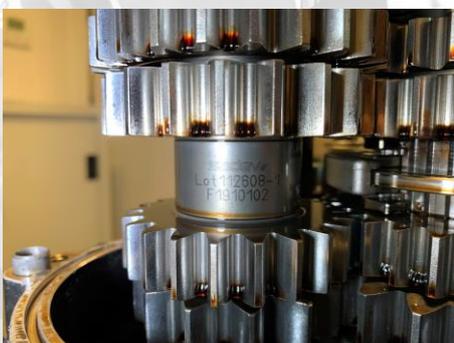
Performance

Wear reduction

8%

Temperature
reduction

39%



Close-up of gears



Dog clutches

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APPLICATION SHEET

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BMW endurance gearbox

RACING

Type of racing: Endurance racing
Used product: Eurol Specialty Racing 75W-140
Product code: S099004
Type of vehicle: BMW F80 M3 Competition
Product use: Transmission

Performance

Temperature
reduction

20°C

Wear reduction

55%

Description of problem

The gearbox was operating at more than 130°C sump temperature during a 12h endurance race with the current transmission oil. Outside temperature was approximately 17°C.

Solution

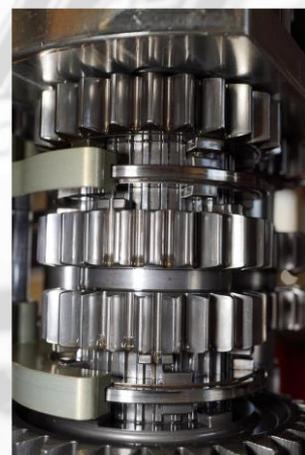
With Eurol Specialty Racing 75W-140 in the gearbox, during another 12h endurance race, the sump temperature did not exceed 110°C, while the outside temperature had increased to 32°C. This is a direct result of lower friction in the gearbox. Used oil analysis indicated a wear reduction of 55% over a race weekend.

Customer testimonial

Joost Ursem, CEO, JR Motorsport: "During races, the new Eurol Racing 75W-140 oil reached a significantly lower temperature compared to Castrol Syntrox 75W-140."



BMW racecar



Close-up of gears

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APPLICATION SHEET

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Toyota GAZOO gears

RACING

Type of racing: Dakar Rally
Used product: Eurol Specialty Racing 75W-140
Product code: S099004
Type of vehicle: Toyota Hilux 4x4
Product use: Gearbox, transfer case, differentials

Performance

Wear reduction

72%

Cost savings

€7.800,-

Description of problem

The transmission oils have to protect all lubricated parts during the complete Dakar Rally with minimal friction and wear. The previously used products were acceptable but wear was still higher than desirable.

Solution

The new Eurol Specialty Racing 75W-140 transmission oil offers very good wear protection and lowers friction. This results in much less wear metal in the oil that was analysed and compared with the previously used Elf HTX 755 transmission oil. In the Eurol Specialty Racing 75W-140 samples, 3 times less wear metals were found, which is a spectacular result.

Customer testimonial

Glyn Hall, general manager, Toyota GAZOO Racing: "This is definitely what we want to see. We are constantly improving the cars and reliability is extremely important. This new transmission oil helps us to create a better car."



Henk Lategan, GAZOO 2021



Nasser Al-Attiyah, GAZOO 2021

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APPLICATION SHEET

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Gearbox The Beast

RACING

Type of racing: Dakar Rally
Used product: Eurol Specialty Racing 75W-140
Product code: S099004
Type of vehicle: Jefferies buggy, Coronel Beast 2021
Product use: Gearbox, differential

Performance

Wear reduction

97,2%

Cost savings

€6.140,-

Description of problem

In the previous editions of the Dakar Rally, a standard 75W-140 transmission oil was used for the Beast of Coronel. This resulted in quite a high amount of wear particles (iron and copper) in the analysed oil samples.

Solution

Switching to Eurol Specialty Racing 75W-140 transmission oil resulted in a spectacular reduction in wear. In both situations, the transmission oil was changed after 6 rally stages. 97,2% less wear was measured after the rally when the transmission oil samples were compared. In addition, the gearbox temperature dropped more than 3°C on average.

Customer testimonial

Michael Verstraete, lead technician, Coronel Dakar team: "It is spectacular that the gear oil lubricates so well. This gives us a lot of confidence in the Beast's driveline. In addition, the reduced costs of the annual rebuild are very important."



Close-up of input and output shaft



Close-up of gearbox

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APPLICATION SHEET

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Transfer case, differential MKR

RACING

Type of racing: Dakar Rally
Used product: Eurol Specialty Racing 75W-140
Product code: S099004
Type of vehicle: Rally Truck
Product use: Transfer case, differential, hub reduction

Performance

Wear reduction

64%

Cost savings

€8.800,-

Description of problem

Too much wear on components and too many different oils in use. Also, the life span of the oil has to be at least 6 Dakar Rally stages.

Solution

Eurol Specialty Racing 75W-140 can be used in the transfer case, differentials and planetary reductions. This is a big advantage during the Dakar Rally in terms of convenience, while reducing the risk of using the wrong oil. The oil lowers friction and therefore temperature, increasing the lifespan of the components as well as the oil itself.

Customer testimonial

Mario Kress, CEO, MKR Technology: "These new oils perform spectacularly. We did not have any mechanical failures, even though we did not change the oil. After a full Dakar Rally, the complete drivetrain looked like new. We saw no signs of wear."



Mammoet rally team



Filling the hub reduction

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