OFF ROAD 4 RACER 10W-50

Technical Data Sheet

1 - International Standards

100% Synthetic

API SP
JASO MA2

Exceeds JASO T 903:2023 level
Officially approved: M033TEL305

M033TEL305
MA2

2 - Application

Specially designed for off-road competition, ELF OFFROAD 4 RACER 10W-50 oil meets the requirements of pilots seeking maximum power and responsiveness to adapt to the constraints of rough terrain, repeated gear changes and dusty environments.

The extreme conditions of off-road racing place severe stress on all mechanical components (engine, clutch, and gearbox).

The high operating speeds of moving parts lead to increased temperatures, intensified friction, and excessive wear of the engine and clutch. In addition, the pressure exerted on the gearbox can cause cavitation and damage to the gear teeth.

The risk of power loss, breakdowns, and mechanical failure is particularly high if the maintenance and lubricant are not specifically adapted to these extreme constraints.

3 - Customer Benefits

Acceleration Responsiveness
- Thanks to specific additives, ELF OFFROAD 4 RACER 10W-50 provides enhanced grip on the clutch discs, ensuring better power transfer and greater responsiveness during gear changes.
- Friction control is ensured by ELF's HTX technology, guaranteeing the perfect balance between grip and protection.

Optimized and Preserved Power
- Thanks to its 100% synthetic formulation, ELF OFFROAD 4 RACER 10W-50 oil preserves combustion efficiency, thus enabling improved engine performance.
- In addition, the high-performance additives used are fully compatible with DLC (Diamond Like Carbon) treatments and ceramic composites, ensuring protection, durability, and maintaining a high level of performance.

Better Heat Transfer
- Thanks to its “COOLING EFFECT” technology, ELF OFFROAD 4 RACER 10W-50 oil enhances heat transfer, preventing overheating and parts deformation, even under intensive and prolonged use.

Maximum Long-Lasting Protection
- Thanks to its molecular structure, HTHS (High Temperature High Shear) viscosity, and anti-wear properties, ELF OFFROAD 4 RACER 10W-50 ensures oil film resistance, providing excellent piston protection even under extreme conditions.
- A specific ‘Extreme Pressure’ additive protects gear teeth, ensuring they maintain their effectiveness over time.

Endurance - Durability
- ELF's 100% synthetic formulation guarantees excellent thermal stability and optimal resistance to oxidation.
- It exceeds the requirements of the most rigorous oxidation tests and maintains its effectiveness even with significant temperature variations (hot or cold).

4 - Characteristics

TEST	TEST METHOD	UNITS	VALUE
Density at 15°C	ASTM D1298	kg/m^3	853
Kinematic Viscosity at 40°C	ASTM D445	mm^2/s	119
Kinematic Viscosity at 100°C	ASTM D445	mm^2/s	17.7
Viscosity index	ASTM D2270	-	164
Pour point	ASTM D97	°C	-36
Flash point	ASTM D92	°C	250

* The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

5 - Recommendations for Use

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements.

Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

6 - Health, Safety and The Environment

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

The SDS is available on request from your local reseller and at https://ms-sds.totalenergies.com.

This product should not be used for any purposes other than the ones for which it is intended.