

## 1 - International Standards

API SL  
JASO MA2

Exceeds JASO T 903:2023 level

Advanced Technology



## 2 - Application

When used in urban areas with heavy traffic and frequent stops and starts, the mechanical parts of motorcycles are subjected to significant stress. Such types of usages favors deposit build-up, excessive wear on the engine and clutch, and an increased risk of breakdowns and mechanical failure.

In addition, the more recent introduction of biofuels can have an impact on engine operation. Depending on the availability of different types of fuel, some users may switch from one to another, hence the importance of lubricant and fuel compatibility.

## 3 - Customer Benefits



### Reliable and Smooth Gear Changes Over Time

- Thanks to its “Friction Control” technology, ELF MOTO 4 RIDER 20W-50 ensures an optimal friction level from the very first use, enabling smoother and more responsive gear changes.
  - ELF MOTO 4 RIDER 20W-50 forms a protective layer that preserves metal parts in contact, reducing wear as well as mechanical and transmission noise, even in demanding conditions with frequent gear changes.
  - Consistent friction behavior on steel and aluminum surfaces: the ideal lubricant for mixed clutch systems.
  - Protection of the clutch basket against overheating, maintaining a clean and shiny surface.
  - Prevention of micro-tearing, preserving the integrity of the metal surface and ensuring a long service life.
- The clutch is thus protected to maintain its performance over time.

### Compatibility with All Types of Fuel

Thanks to ELF's advanced additive technology, regardless of the type of fuel used, ELF MOTO 4 RIDER 20W-50:

- Ensures perfect compatibility with all types of fuel, including biofuels such as ethanol.
- Guarantees optimal combustion, preventing the formation of sludge and deposits.
- Maintains a high level of engine protection by preserving the integrity of the oil film between moving parts, under all operating conditions.

### Optimal Performance

Thanks to “Cleaning Effect” technology, which combines detergent, dispersant, and antioxidant properties, ELF MOTO 4 RIDER 20W-50 oil prevents the formation of sludge and deposits on various parts of the piston (ring grooves, crown, skirt) and in the combustion chamber.

→ Engine Cleanliness:

- Prevents loss of compression and related power loss.
  - Reduces friction and associated wear damage.
  - Maintains maximum contact surface between the oil and parts to optimize heat transfer and prevent overheating.
- The engine maintains optimal efficiency over time.

## 4 - Characteristics

TEST	TEST METHOD	UNITS	VALUE
Density at 15°C	ASTM D1298	kg/m <sup>3</sup>	882
Kinematic Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	162.6
Kinematic Viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	17.9
Viscosity index	ASTM D2270	-	121
Pour point	ASTM D97	°C	-30
Flash point	ASTM D92	°C	208

\* 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.