



ELF HTX 3818

5W-30

100% synthetic lubricant for competition engines



Uses

- **ELF HTX 3818** is a multigrade lubricant designed for 4-stroke petrol engines.
- **ELF HTX 3818** is specially designed to obtain maximum engine power over short and/or very short runs.
- **ELF HTX 3818** is especially recommended for short, intense races where maximum performance is sought such as sprint circuit and qualifying races.
- Directly based on ELF experience in Formula 1 and Motorcycle GP, the **ELF HTX 38xx** range is particularly used for developing and running engines in Motorcycle GP, Superbike and Formula 3.
- **ELF HTX 3818** is used for the following applications:
 - 4-stroke naturally-aspirated and turbocharged petrol engines, up to 19,000 rpm
 - Motorcycle 4-stroke transmissions
- **ELF HTX 3818** is perfectly suited for competitions of short and very short duration:
 - Sprint circuit
 - Qualifying races
 - Hill climb races

Characteristics

| | Typical values | Units | Methods |
|--------------------|----------------|--------------------|-------------|
| Density at 15°C | 0.8528 | g/ml | ASTM D-1298 |
| Viscosity at 40°C | 75.57 | mm ² /s | ASTM D-445 |
| Viscosity at 100°C | 12.38 | mm ² /s | ASTM D-445 |
| Viscosity HTHS | 3.67 | mPa.s | ASTM D-4741 |
| Flash point | > 220 | °C | ASTM D-92 |

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ELF HTX 38xx

ELF HTX 3818 is miscible in any proportion with ELF HTX 3821 (0W-30), ELF HTX 3825 (0W-20), ELF HTX 805 (5W-50), ELF HTX 825 (10W-60) and ELF HTX 835 (15W-40).

ELF HTX 3818, ELF HTX 3821 and ELF HTX 3825 are primarily performance-geared lubricants.

In the ELF HTX 38xx range, ELF HTX 3818 is the most robust in terms of ultra fluid grade.

For greater protection (longer use), we recommend the ELF HTX 8xx range.

Properties

| CHARACTERISTICS | → | TECHNICAL GAINS | → | ENGINE BENEFITS |
|--|---|--|---|--|
| Low viscosity (5W-30) | → | Serious reduction in frictional loss | → | Maximum power over entire speed range |
| Reversible high shear viscosity (HTHS) | → | Less energy wasted through viscous friction | → | Spontaneous power gain at high and very high speeds |
| Addition of specific frictional modifiers | → | Molecular adsorption on moving mechanical parts Excellent lubrication under high and very high speeds | → | Maintains engine lubrication conditions to give maximum performance at high and very high speeds |

Recommendations

- ELF HTX 3818 works perfectly up to 19,000 rpm.
- ELF HTX 3818 is particularly suited to sprint races held over a weekend where the driving time does not exceed **four hours**.

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- Due to its ultra fluid grade, it is recommended to carefully monitor mileage between each **ELF HTX 3818** oil change.
- Compatibility with the materials of the lubrication circuit:
 - No known incompatibility to date
 - Compatible in particular with silicon, fluorine, acrylic and nitrile type joints
- There is no specific precaution to take on first use of **ELF HTX 3818** other than removing the previous lubricant and replacing the oil filter.
- The use of an external additive (like engine remetalling) is not recommended.

Storage

To preserve its original properties, **ELF HTX 3818** must be handled and stored away from extreme weather conditions. The can must be carefully closed again after each use.

Glossary

100% SYNTHETIC:

Unlike certain lubricants on the market bearing the synthetic label, **ELF HTX 3818** really contains no mineral base.

SHEAR:

Distortion of lubricant when subjected to high speeds and loads.

VISCOSITY HTHS (High Temperature/High Shear):

Viscosity measured at High Temperature (150°C) and High Shear (10^6 s^{-1}).