ELF HTX 860
10W-60

100% synthetic lubricant for competition engines

Uses

- **ELF HTX 860** is a multigrade lubricant specially developed for high-torque 4-stroke engines running at very high temperatures.
- **ELF HTX 860** offers optimum engine protection with exceptional reliability in runs and maintains engine performance under prolonged heavy load.
- **ELF HTX 860** is used for the following applications:
  - 4-stroke naturally-aspirated or turbocharged petrol engines with high torque
  - Fractionated turbo diesel engines for endurance runs
- **ELF HTX 860** is perfectly suited for competitions of medium or long duration:
  - Rally
  - Endurance
  - Raid

Characteristics

	Typical values	Units	Methods
Density at 15°C	0.8574	g/ml	NF EN ISO 12185
Viscosity at 40°C	150.6	mm²/s	ASTM D-445
Viscosity at 100°C	23.59	mm²/s	ASTM D-445
Viscosity HTHS	5.44	mPa.s	CEC L-036
Flash point	246	°C	NF EN ISO 2592

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Properties

Characteristics	→	Technical gains	→	Engine benefits
Particularly high **viscosity** (10W-60), specially for engines running at very high temperatures	→	Excellent **resistance** of oil coat under very heavy, prolonged load and at very high temperatures	→	**Maximum protection of mechanical moving parts**
Reversible high shear **viscosity** (**HTHS**)	→	Less energy wasted through viscous **friction**	→	**Spontaneous power gain at high and very high speeds**
Optimized **formulation** matrix	→	High **de-airing** capacity	→	**Perfect lubrication of mechanical parts Greater compatibility with dry sump type technologies**
Addition of specific **frictional modifiers**	→	Excellent **lubrication** at high and very high speeds	→	**Maintains engine lubrication conditions to give maximum performance at high and very high speeds**
detergency additive	→	**Cleans** and keeps clean all shells, pistons, segments	→	**Maintains initial engine power perfectly**
anti-wear additive	→	**Adsorption** on metal areas subject to very high pressure like tappets, cams and bearings	→	**Greater engine protection with impeccable reliability**
Dispersion surfactant	→	Carbonaceous matter **kept in suspension**	→	**Reduces clogging of filters**
Full synthetic, mineral base content strictly zero	→	Increase in **thermal resistance**	→	**Reliability gain**

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ELF HTX 860 is miscible in any proportion with the whole 4-stroke engines lubricants ranges **ELF HTX 8xx** and **ELF HTX 38xx**.

In the **ELF HTX 8xx** range, **ELF HTX 860** is the lubricant that offers the best reliability.

Recommendations

- 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 860** 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 860** must be handled and stored away from extreme weather conditions. The can must be carefully closed again after each use.

Glossary

For any further information relative to the technical aspects written in our Data Sheets, a glossary is on line on our website www.acs.total.com, racing fuels and lubricants section.