



## ECOTURBINE SYNTH

### FULLY SYNTHETIC BIODEGRADABLE HYDRAULIC TURBINE OIL

#### Description

ECOTURBINE SYNTH is ultimate performance hydraulic turbine oil based on top-tier saturated synthetic esters and modern additive technology. ECOTURBINE SYNTH is readily biodegradable & environmentally acceptable lubricant (EAL) specifically designed for hydroelectric power generation.

#### Industry Performance Standards

- DIN 51515 part 1 (L-TD), part 2 (L-TG)
- HEES: ISO 15380
- ISO 8068; Siemens TLV 9013 04/01; British Standard BS 489; General Electric GEK 32568 AVC; MIL-L-17672 D; CEGB Standard 207001; Brown Boveri HTGD 90117; U.S. Steel 120; Westinghouse Electric Corp. Turbine Oil Spec.; Alstom HTGD 90 117 V0001 S
- EU Ecolabel licence no. CZ/27/001

#### Areas of Application

ECOTURBINE SYNTH is used for lubrication of bearings and bearing systems in water-turbines. ECOTURBINE SYNTH can also be used as a governor oil and hydraulic fluid (trash rakes, gates...)

#### Characteristic features:

- Ultimate lubricating performance
- Outstanding thermal oxidation stability
- Excellent demulsibility and seal compatibility
- Enhanced reliability for uptime and equipment protection
- Anti-wear & anti-corrosion
- Water and air release properties
- High system and energy efficiency over a wide temperature range
- Based on renewable materials, CO2 emissions reduction
- Non-toxic, readily biodegradable according to OECD 301B and OECD 301D
- EU Ecolabel Certificate of Environmental Excellence

#### Typical Characteristics

PARAMETER	UNIT	TEST METHOD	22	32	46	68	100
Density at 15 °C	kg/m <sup>3</sup>	ISO 12185	0,912	0,927	0,940	0,966	0,971
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	22	32	46	68	100
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	5,1	6,6	8,3	11,2	15,2
Viscosity Index (VI)			>150	>150	>150	>150	>150
Pour point,	°C	ASTM D97	<-50	<-50	<-50	<-40	<-40
Flash point, COC	°C	ASTM D92	240	245	245	250	260
Biodegradability (within 28 days)	%	OECD 301B	>80	>80	>80	>80	>80