

## ECOGEAR SYNTH

### Fully Synthetic Gear Oils (ISO VG 150/220/320/460)

#### Description

**ECOGEAR SYNTH** is a fully synthetic, readily biodegradable, high performance gear oil designed to meet the most demanding requirements through enhanced wear protection, system efficiency and greater durability. Developed to replace the usual mineral oil based lubricants to protect the natural environment.

#### Areas of Application

**ECOGEAR SYNTH** gear oils are recommended in applications where mineral oil based lubricants have reached their performance limits and no longer can meet the application's requirements; for example, at very low or high temperatures, extremely high loads, extraordinary ambient conditions, or flammability.

#### Application advantages

- Improved efficiency due to reduced tooth-related friction losses;
- Lower gearing losses due to reduced friction, requiring less energy;
- Oil change intervals 4 to 5 times longer than mineral oils operating at the same temperature;
- Reduced operating temperatures under full load, increasing component life;
- Cooling systems may not be required

#### Characteristic features

- Exceptional thermal and oxidation stability;
- Excellent lubrication;
- Perfect anti-rust and anti-corrosion protection;
- Greater friction and wear test results;
- Improved low temperature properties;
- Lower tendency to form residues;
- Easily biodegradable

#### TYPICAL CHARACTERISTICS

PARAMETER	UNIT	TEST METHOD	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460
Density at 15 °C	kg/m <sup>3</sup>	ISO 12185	925	932	940	947
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	150	220	320	460
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	16	28	37	50
Pour point	°C	ASTM D97	-30	-30	-30	-30
Flash point, COC	°C	ASTM D92	>270	>270	>270	>270
Biodegradability (within 21days)	%	CEC-L-33-A-93	>80	>80	>80	>80

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**Pacific Bio Lubricants Limited**  
 11H Piermark Dr., North Harbour  
 Auckland 0753, New Zealand  
 Postal: PO Box 35085, Auckland 0753

**Sales and Technical Support**  
 Phone: +64 9 973 4390  
 NZ Freephone: 0800 582 326  
 Email: info@lubeco.co.nz

