

# Lubricants for a Sustainable Future



LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.



## Lubricants for a Sustainable Future: Outdoor, Marine, and Industrial

### Transportation, Construction and Municipal Vehicles

All vehicles operating outdoors pose a risk of leakage in the event of accident.

**PLANTOSYN** hydraulic oils optimize performance at extreme operating temperatures and provide environmental assurance in the event of unintended fluid release.

**Applications:**  
Construction and Quarry Equipment, Municipal and Utility Service Vehicles.

### Agriculture and Forestry

Long term sustainability of Agricultural and Forestry operations are best served by lubricants with minimal effect on ecosystems

**PLANTOSYN** hydraulic oils and **PLANTOGEAR** oils are designed for sustainability and maximum operating efficiency.

**Applications:**  
Forestry and Agriculture.

### Marine

Recent Vessel General Permit (VGP) regulations in the USA require use of compliant lubricants in applications subject to marine environmental release.

**PLANTOSYN** hydraulic oils, **PLANTOGEL** greases and **PLANTOGEAR** oils meet VGP and European requirements and marine component OEM specifications.

**Applications:**  
Fisheries, harbor services, locks, drydocks, commercial and pleasure craft.

### Industrial




Manufacturing process improvements include environmental footprint and worker safety initiatives. Process lubricant design have evolved to meet customer demands.

**PLANTOCUT** and **ECOCOOL MIKRO** metalworking fluids replace mineral oils with high quality esters. **ECOCOOL 800 Series** water miscible fluids eliminate major materials with EHS concern while providing top of the line performance.

**Applications:**  
Machining of all metals including all conventional and MQL delivery systems.

## Sustainable Product Ranges

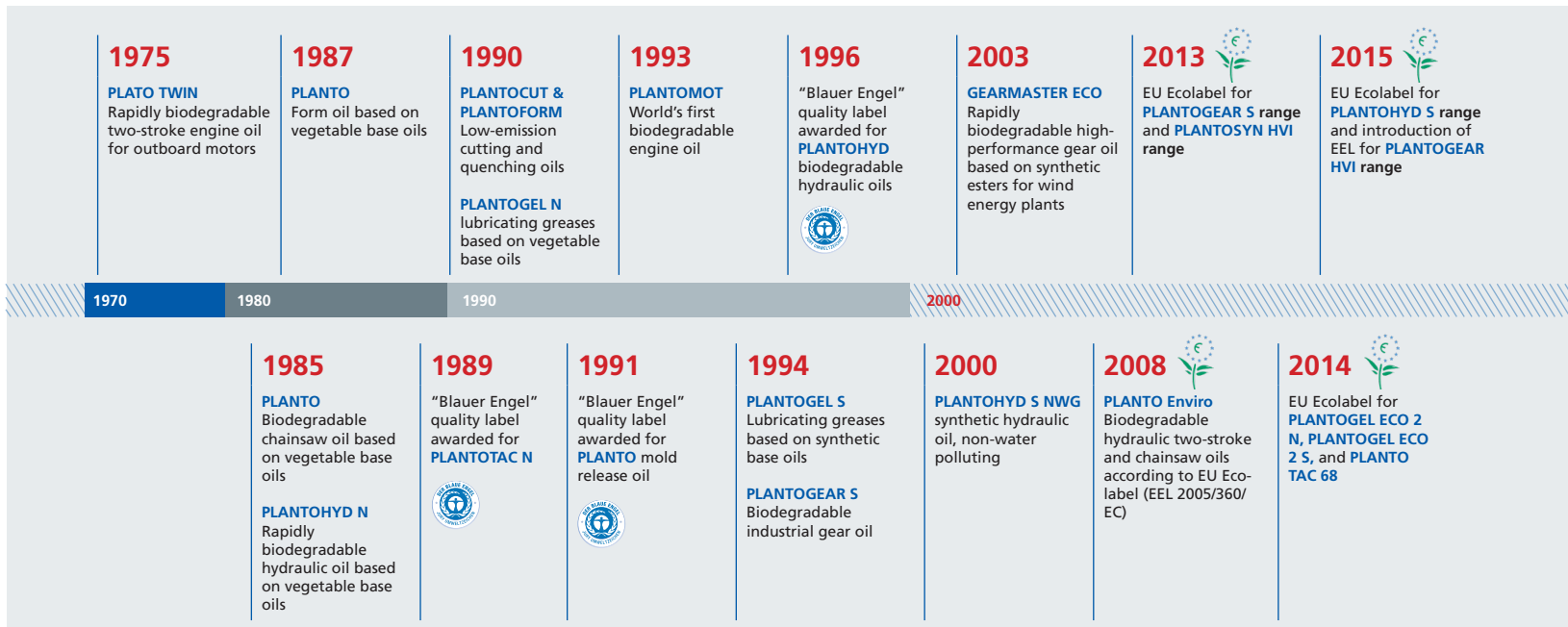
### Industrial and Outdoor Equipment Lubricants

Product Range	Primary Use	Ecological Base Oil	EU Ecolabel
PLANTOSYN HVI	Industrial Hydraulic Oil	YES	
PLANTOGEAR S	Industrial Gear Oil	YES	
PLANTOGEL S	Plain and Roller Bearing Grease in wet environments	YES	

### Metalworking Process Lubricants

Product Range	Primary Use	Ecological Base Oil	EU Ecolabel
PLANTOCUT	Metal Cutting Oils	YES	-
ECOCOOL MIKRO	MQL Metal Cutting Oils	YES	-
ECOCOOL 810 & 820	Water Miscible Cutting Fluid	Free of boron, secondary amines, chlorine and formaldehyde-releasing biocides	-

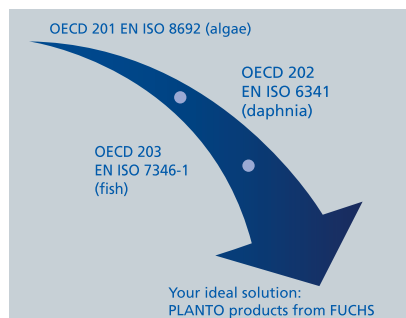
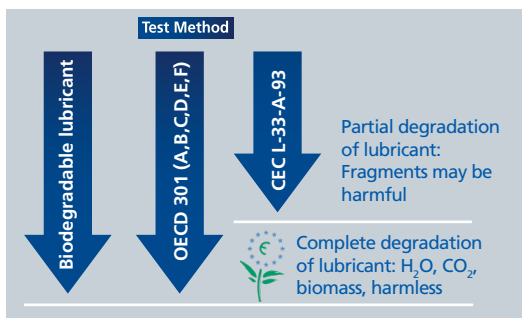
## Development of Rapidly Biodegradable Lubricants at FUCHS



## ECOCOOL Series Metalworking Fluids: High performance and peace of mind

Product	Tap Torque, Mean Plateau, Ncm 1018 ST	Tap Torque, Mean Plateau, Ncm 6061 Al	Notes
ECOCOOL 810	269	175	Best in class on both metals
ECOCOOL 820	312	188	Outstanding performance on Al 6061
Competitor B	296	238	
Competitor C	307	239	
Competitor H	294	239	
Competitor M	346	244	
Competitor Y	351	228	

## PLANTO Products: Eco-responsibility and high performance



## Innovative lubricants need experienced application personnel

Every lubricant change should be preceded by expert consultation on the application in question. Only then the best lubricant system can be selected. Experienced FUCHS sales and technical personnel will be glad to advise on products and process optimization for the application in question.



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