

# Nautilus Biodegradable Outboard Oil

## *Fully synthetic two-stroke outboard oil*



Nautilus Biodegradable Outboard Oil is a top performance biodegradable synthetic lubricant for the superior protection of all two-stroke gasoline outboard motors.

A leader in its class, the advanced formulation is unique to Shell. It exceeds all outboard motor manufacturers' standards and can be used to advantage where protection of the environment is of paramount importance.

Applications	Nautilus Biodegradable Outboard Oil	
<ul style="list-style-type: none"> <li>All two-stroke gasoline outboard motors with or without separate oil tanks</li> </ul>	<b>Kinematic Viscosity</b>	
	@ 40°C cSt	55.0
	100°C cSt	9.0
	(IP 71)	
<b>Performance Features</b> <ul style="list-style-type: none"> <li>Fully synthetic biodegradable formulation</li> <li>Biodegradable according to ICOMIA standard (CEC L-33-A-94)</li> <li>Readily biodegradable according to OECD 301 B Standard (Modified Sturm test)</li> </ul>	<b>Density @ 15°C kg/l</b>	0.870
	(IP 365)	
	<b>Flash Point °C</b>	189
	(Cleveland Open Cup)	
	(IP 36)	
	<b>Pour Point °C</b>	-55
(IP 15)		
<b>Performance Specifications</b>	<b>Total Base Number</b>	4.8
	mg KOH/g	
	(IP 276)	
	<b>Sulphated Ash</b>	0.01
	% wt	
	(IP 163)	

Nautilus Biodegradable Outboard Oil exceeds the requirements of all major outboard motor manufacturers and all industry specifications.

Certified by NMMA (National Maritime Manufacturers' Association) for service TC-W3 at the manufacturer's recommended fuel/oil ratio (up to 100:1)

### Self-Mixing Properties

Nautilus Biodegradable Outboard Oil is a self-mixing oil. It is blended to the correct viscosity for use in oil injection systems fitted to two-stroke gasoline outboard motors.

### Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

### Health & Safety

Nautilus Biodegradable Outboard Oil is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. After skin contact, wash immediately with soap and water.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

### Typical Physical Characteristics