



# CASTROL BIO RANGE

RELIABILITY MEETS

ENVIRONMENTALLY  
ACCEPTABLE LUBRICANTS\*

\*A lubricant, including any oil or grease, that is "biodegradable", "minimally toxic", and "not bio accumulative" as defined by US VGP 2013.

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.



# CASTROL BIO RANGE

## ENVIRONMENTALLY ACCEPTABLE LUBRICANTS (EALs)\*\*



**CASTROL  
BIOTAC MP2**

**CASTROL  
BIOSTAT**

**CASTROL  
BIOBAR**

**CASTROL  
BIOTAC OG**

A RANGE OF HIGH-PERFORMING, MULTIPURPOSE EALs\*\* THAT HELP YOU DELIVER THE EQUIPMENT PROTECTION YOU DEPEND ON AND THAT CAN ALSO SUPPORT YOUR SUSTAINABILITY GOALS

Castrol Bio Range products meet the requirements for being an EAL\*\* under the 2018 US Vessel Incidental Discharges Act (VIDA) based on the 2013 US Vessel General Permit (VGP)

### RELIABILITY ENVIRONMENTALLY ACCEPTABLE LUBRICANTS\*\*

TODAY YOU WANT  
AND NEED THE BEST  
OF BOTH WORLDS

High-performing, hardworking lubricants are a critical component of efficient, profitable vessel operations. But in a world of ever-stronger environmental legislation, you may prefer Environmentally Acceptable Lubricants\*\*. And it is why fleets choose Castrol Bio Range.

### KEY BENEFITS:



PROTECT YOUR EQUIPMENT



SUPPORT YOUR ENVIRONMENTAL TARGETS



HELPS YOU STAY COMPLIANT



MAINTAIN OPERATIONAL EFFICIENCY



KEEP THINGS SIMPLE FOR CREWS

## CASTROL BIO RANGE EALs\*\* ARE PART OF THE PATH360 FAMILY

Castrol's PATH360 is our holistic sustainability program, expanding sustainable thinking into every facet of our business.

Saving waste | Reducing carbon | Improving people's lives

**Castrol Marine Bio Range products are committed to certified carbon neutral\*\*\* in accordance with PAS 2060 from 2021.**



\*In accordance with PAS 2060, see [www.castrol.com/cneutral](http://www.castrol.com/cneutral) for more information.\*\*A lubricant, including any oil or grease, that is "biodegradable," "minimally toxic," and "not bio accumulative" as defined by US VGP 2013. \*\*\*The CO<sub>2</sub> emissions are calculated in accordance with the Greenhouse Gas Protocol's Product Life Cycle Standard and include life cycle emissions. The demonstration of carbon neutrality is assured by an Independent Third-Party and certified to BSI's PAS 2060 carbon neutral specification. See [www.castrol.com/cneutral](http://www.castrol.com/cneutral) for more information.

# CASTROL BIOTAC MP2



**Next generation environmentally acceptable multipurpose extreme pressure grease\* to simplify your onboard operations**

- Meets the definition of an EAL\* under 2018 US VIDA based on the requirements in the 2013 US VGP
- EU Ecolabel for lubricants registered
- Reduced environmental impact when compared with conventional mineral oil-based greases
- High resistance to water spray-off
- Broad operating temperature from -35°C to 140°C

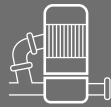
## APPLICATIONS

Roller bearings, plain bearings, wire ropes, open gears, marine mooring and cargo winches, ramp door bearings, pedestal bearing, cargo-hatch rollers and other slow-/medium-speed marine-deck applications.



EU Ecolabel:  
DE/027/297

# CASTROL BIOBAR



**Environmentally acceptable hydraulic oil\*, which can replace conventional mineral oils in hydraulic equipment where there is a perceived risk of egress into the marine environment**

- Meets the definition of an EAL\* under the 2018 US VIDA based on the requirements in the 2013 US VGP
- OSPAR\*\* tested and registered
- Reduced environmental impact\*\*\* when compared to conventional mineral oils
  - Superior marine biodegradation
  - Significantly reduced bioaccumulation\*\*\*\* and toxicity to marine organisms
  - Enhanced renewability
- High level of protection and reliability
- Wide operating temperature range

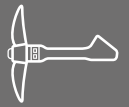
## APPLICATIONS

Hydraulic systems and hydrostatic transmissions which incorporate gear pumps, vane pumps, radial piston or axial piston pumps and motors.



APPROVED BY MAJOR ORIGINAL  
EQUIPMENT MANUFACTURERS

# CASTROL BIOSTAT



**Environmentally acceptable stern tube and gear oil\*, with outstanding performance when compared with mineral oils**

- Meets the definition of an EAL\* under the 2018 US VIDA based on the requirements in the 2013 US VGP
- OSPAR\*\* tested and registered
- Reduced environmental impact\*\*\* when compared to conventional mineral oils
  - Superior marine biodegradation
  - Significantly reduced bioaccumulation\*\*\*\* and toxicity to marine organisms
  - Enhanced renewability
- Good oxidation stability, anti-corrosion and anti-wear properties

## APPLICATIONS

Stern tube bearings, thruster gear boxes, reduction gear, spur, helical and planetary gear units, couplings, rolling and sliding bearings, deck machinery gearboxes.



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EQUIPMENT MANUFACTURERS

# CASTROL BIOTAC OG



**Environmentally acceptable open gear grease\* with excellent resistance to wash-off**

- Meets the definition of an EAL\* under the 2018 US VIDA based on the requirements in the 2013 US VGP
- OSPAR\*\* compliant
- Formulated to reduce environmental impact in service, in comparison with conventional mineral oil based open gear lubricants
- Highly resistant to water wash-off
- High load carrying performance
- Very good corrosion protection

## APPLICATIONS

Rack and pinion jacking mechanisms of self-elevating mobile drilling rigs, anchor winches and other deck machinery.

\*A lubricant, including any oil or grease, that is "biodegradable," "minimally toxic," and "not bio accumulative" as defined by US VGP 2013. \*\*OSPAR - Oslo and Paris Convention for the Protection of the Marine Environment of the North-East Atlantic. \*\*\*Source: Product Data Sheet. \*\*\*\*Using OSPAR criteria for assessing bioaccumulation potential.



[www.castrol.com/marine](http://www.castrol.com/marine)

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