

# Cat® Bio HYDO™ Advanced



## High Performing, High Bio-based Content

Cat® Bio HYDO™ Advanced is a synthetic ester based hydraulic fluid with 84% bio-based content (per ASTM D6866 test method). Developed for use in a wide range of applications and conditions, Cat Bio HYDO Advanced provides superior performance across a wide temperature range.

### Benefits

#### Environmental Recognition

- EU Ecolabel certified - Cat Bio HYDO Advanced exceeds the product performance required in the EU Ecolabel and satisfies all sustainability, toxicology and pollution requirements
- USDA BioPreferred® listed - Cat Bio HYDO Advanced qualifies for this program based on bio-based content and its biodegradability
- Blue Angel certified - Cat Bio HYDO Advanced meets the high standards for environmentally friendly products set by the German Ecolabel
- Meets Swedish Standard SS 15 54 34

#### Extended Drain Intervals

- Excellent oxidation stability
- Comparable to premium mineral-based hydraulic oils

#### Exceptional System Protection

- Superior wear protection
- Corrosion resistance
- Fast air release



## Features

**Biodegradability** – 84% bio-based content (ASTM D6866) - fluid biodegradability to OECD 301B is 62% after 28 days.

**Positive CO2 balance** - With an 84% bio-based content, Cat Bio HYDO Advanced has a positive CO2 balance.

**Wide Temperature Range Protection** – maintains consistent wear protection throughout the entire operating oil temperature range, -2°F (-17°C) – 199°F (93°C). From cold start through to operating temperature, Cat Bio HYDO Advanced gives you the best system protection.

**Seal Compatibility** – Cat Bio HYDO Advanced is highly compatible with the seals used in Cat Hydraulic systems. This means fewer leaks and lower maintenance costs.

**Premium performance and protection** – Cat Bio HYDO Advanced has excellent thermal and oxidation stability, which improves system cleanliness and deposit reduction, helping reduce maintenance downtime and costs and increasing oil life. It is formulated with specially developed additives to protect surfaces, reducing wear in hydraulic pumps and other components. It provides excellent corrosion protection to steel and bronze components.

## Cat Bio HYDO Advanced Typical Characteristics<sup>1</sup>

Characteristics	
ISO Viscosity grade	46
Renewable content, % (ASTM D6866)	84
Viscosity	
cSt @ 40°C (ASTM D445)	43.3
cSt @ 100°C (ASTM D445)	7.7
Viscosity Index (ASTM D2270)	149
Brookfield viscosity at -25°C, cP (ASTM D2983)	3550
Pour point, °C (ASTM D97)	-42
FZG Gear Test, fail stage (DIN 51354) <sup>2</sup>	11
Eaton-Vickers 35VQ25 Vane Pump Test, total wear, mg	22
Copper strip corrosion, 3h at 100°C, rating (ISO 2160)	1A
Rust Protection (ASTM D665B)	pass
Oxidation Stability, dry TOST, hours (ASTM D943)	>10000
Air Release @ 50°C, minutes (ASTM D3427)	1.1
Foam Test	
Seq. 1 ml. (ASTM D892)	0/0
Seq. 2 ml. (ASTM D892)	10/0
Seq. 3 ml. (ASTM D892)	0/0

<sup>1</sup> The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

<sup>2</sup> In addition to high FZG rating, the oil must demonstrate excellent protection to hydraulic pumps and motors, excellent corrosion protection, and compatibility with metals and seals.

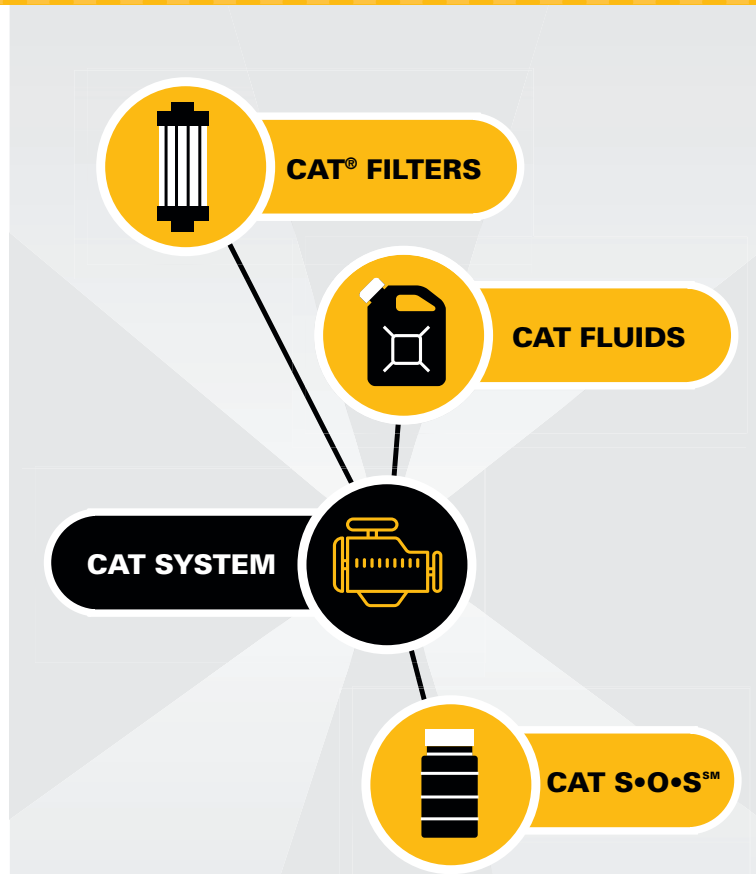
## Health and Safety

Always read and understand the Safety Data Sheet (SDS) before using this product.

For a copy of the SDS, visit us on the web at: [www.catmsds.com](http://www.catmsds.com)

# LET'S DO THE WORK.™

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