Bio HyGARD™ II
Good for the earth
Bio HyGARD™ II

The smart alternative
Biodegradable transmission and hydraulic oil

Now you can protect your equipment and the environment at the same time with a biodegradable solution that meets or exceeds the performance of conventional petroleum-based lubricants.

Safer to use
Exclusively formulated by John Deere, Bio HyGARD II is a safe, smart lubricant alternative. It's designed to protect the transmissions, final drives, and hydraulic systems of most farm, industrial, and grounds-care machines, including those with wet brakes and clutches.

Bio HyGARD II is formulated with canola oil, allowing grass and soil to regenerate more quickly after spills or leaks, with no residual environmental effects.

Superior performance
There's no need for you to sacrifice performance for the sake of biodegradability — Bio HyGARD II provides both. With its improved oxidation resistance, you can operate machines in hotter temperatures. The optimum service temperature for machines running with Bio HyGARD II ranges from –13°F to 122°F (–25°C to 50°C).

The John Deere exclusive canola-oil composition reduces friction and wear. And you'll be happy to know that Bio HyGARD II fulfills all JDM J20C requirements, and meets or exceeds environmental testing specifications.*

Bio HyGARD II benefits:
• Up to 84-percent biodegradable — proven-safe alternative to petroleum-based fluids. If leaked or spilled, grass and soil will recover more quickly, with no residual effects.
• Protection of soil and water in multiple applications including farm, construction, forestry, waste management, and lawn and grounds care.
• Meets current and proposed government regulations for eco-toxicity.
• Provides superior, squawk-free wet-brake performance and smooth transmission/clutch engagement, plus excellent EP/antiwear resistance.
• 100-percent compatibility with petroleum oils.
• Excellent cold-start performance.

Available in the following package sizes:

U.S. and Canada:
TY22043.............1 gallon
TY22044.............5 gallons
TY22063.............55 gallons

*Bio HyGARD II fluid meets or exceeds the environmental requirements defined by the following tests:
• OECD 301b (Sturm) fast biodegradability: 75%
• OECD 202: EC50 > 100 mg/L
• CEC L-33-A-93 biodegradability: 94%
• WGK rating of 1

Performance and applications for John Deere Bio HyGARD II

Bio HyGARD II may be used wherever hydraulic, transmission, or hydrostatic fluids are required. Listed below are typical applications where Bio HyGARD II can be used as a replacement fluid.

Applications:
Forestry, turf care (golf courses/cemeteries), construction, city services (garbage collection/street services), waterway operations, orchards, and farming operations.

Specifications:
John Deere
• JDM J20C
New Holland
• M2C 1340 and NH 410 BS
J.I. Case
• MS 1207 and MS 1209
Massey Ferguson
• M1135, M1127, and M1143

Hydraulic:
• HLP/HVLP ISO 46 DIN 51 524 part 2 and 3

Transmissions:
• ZF TE-ML 06E
• Meets GL-4 requirements

Gear performance level:
• Meets GL-4 requirements

For more than 150 years customers have relied on John Deere products. And we've relied on customers for feedback. This cooperative relationship has helped us create equipment and products like Bio HyGARD II to meet our customers' ever-changing needs.