



John Deere is now your source for Hagie sprayer maintenance products. John Deere has solutions for your customers' maintenance needs.

*Refer to the chart below for factory-approved John Deere products for Hagie sprayers.*

PRODUCT LINE	JOHN DEERE SOLUTION
Hydraulic fluid	Hy-Gard™
Engine oil	Plus-50™ II 15W-40
Coolant/antifreeze	Cool-Gard™ II
Gear Lube	GL-5 75W-90
Grease	Multi-Purpose SD Polyurea
DEF	John Deere Diesel Exhaust Fluid
Battery	TY24546(A) / SWHP-31D
Hydraulic hose	JDM Fabricated Hose Program
Filters	JDM Fleetguard Program
Paint	JDM Paint Program for Hagie Colors

## StrongBox™ Heavy-Duty Commercial Batteries

These batteries can be used for all makes of heavy- and light-duty farm, ranch, construction, utility, lawn and garden and marine equipment.



TY24546 / TY24546A

- 1 High-quality construction that is built tough to demanding John Deere specifications.
- 2 Through-the-wall welded inter-cell connectors are 12-percent larger than some brands to provide increased power for quick starts in extreme cold.
- 3 Super radial-grid design with inboard lug provides higher cranking amps, faster charges and a more effective design for lowering electrical resistance.
- 4 Extra-heavy plates give extra reserve power, especially in extreme cold.
- 5 Microporous plastic envelope separators eliminate electrical shorts by keeping positive material from touching the negative plate.
- 6 Epoxy-anchored plates are four-times stronger than traditional plates to reduce vibration damage — a leading cause of failure in commercial batteries.

## Performance Batteries – High quality with a lower price tag

The John Deere Performance line of batteries is a great lower-cost alternative when you don't need the premium features of StrongBox™. They're perfect for on-road and off-road vehicles. They're affordable, and they stand up to some of the most stringent on-road tests out there to prove it.

### Applications

Agricultural, commercial, automotive, light truck, SUV, motorsport, lawn and garden, utility vehicle, golf cart, electric vehicle and marine.

When you don't need the premium features of StrongBox, but still want a battery that performs better than most batteries on the market, rely on Performance.



SWHP-31D

### What makes PERFORMANCE better?

See what makes Performance batteries tougher than a majority of its competitors:

- 1 Heavy-duty poly containers (flat and horizontal)
- 2 Hot-melt installation protects against vibration
- 3 Through-the-wall, welded intercell connectors withstand vibration, provide quick starts and increase power in extreme cold conditions
- 4 Envelope separators eliminate electrical shorts and prevent corrosion

## Gear Lubricants

### GL-5™ Gear Lubricant

John Deere GL-5 Gear Lubricant protects and maintains the service life of a wide variety of enclosed industrial gearing, including spur, bevel, herringbone and many worm gears that operate under high-speed, low-torque and low-speed, high-torque conditions. Gear oils should be changed more frequently in dusty, wet or dirty operating conditions unless the gear system is properly sealed and equipped with membrane-type breathers.

GL-5 premium-quality synthetic and mineral oils provide high load gear and bearing protection, shock-load resistance and rust and corrosion protection. Both types also have thermal durability to protect gears from physical damage by preventing the heat-induced failure of anti-wear chemistry. All GL-5 oils meet SAE service designation J2360.

GL-5 Synthetic Oil also provides thermal stability and oxidation resistance to keep gears and seals clean by preventing the heat-induced formation of sludge and deposits. It also reduces operating temperatures and provides better cold-weather shifting.

#### SAE Viscosity Grades Offered:

Mineral Oil	Synthetic Oil
75W-80	75W-90
80W-90	80W-140
85W-140	



## Fabricated Hose Assemblies

Get back in the field quickly with hydraulic hose assemblies that match exact machine specifications. Hagie hoses are in the Fab Guide.



HOSES IN MINUTES



- 1 Wire reinforcement for strength.
- 2 Deep-biting teeth for a strong grip.
- 3 Large inside diameter for maximum flow capacity.



### Ultra Clean

Prevent downtime and costly hydraulic component repairs. Trust your John Deere dealer to deliver better solutions, like contamination-free hoses made using the Ultra Clean process.

### Bulk Low-Pressure Hoses

Use our hoses in a variety of applications, including agricultural, construction and light industrial business. They're available in different diameters and materials, and can be used with chemical sprayers, air seeders and cotton pickers. Our hoses are designed for air, water, oil, fuel, coolant and chemicals.

TY22555



PMK000-32



## Cool-Gard™ II

Cool-Gard II is a fully formulated summer coolant, winter antifreeze that delivers full protection from corrosion, cavitation, foaming, rust and scaling. Cool-Gard II is designed to withstand thermal oxidation and breakdown to handle higher temperature applications while providing service life up to six years or 6,000 hr.



TY26968



TY26576



TY26573

It doesn't have to be a John Deere machine to get John Deere protection. Cool-Gard II protects your entire fleet under extreme high-heat temperatures. Use with liquid-cooled engines in:

- 1 On-highway vehicles
- 2 Irrigation pumps
- 3 Generators
- 4 Compressors
- 5 Other manufacturer makes and models

## Sprayer Winterizer

John Deere's Sprayer Winterizer fluid is specially formulated to protect the entire liquid system of sprayers from damage caused by freezing and corrosion.

N305634



- Special lubricant additive protects critical, high value sprayer components (pumps, valves, seals, and other replacement parts) from dry storage corrosion and deterioration for enhanced product life
- Concentrated PG formulation requiring dilution with water to achieve desired freeze protection/ burst protection level
- New lower use rates save money while protecting your sprayer down to -54° F
- Flash point will exceed 219°F as a concentrate fluid (greater when diluted)
- Very low toxicity, low vapor pressure, low evaporation rate, odorless
- Fluid is re-usable-reduces maintenance expenses

# Hy-Gard™

Hy-Gard hydraulic and transmission oil has been designed to meet and exceed the demanding standards of the off-road heavy equipment market and protects transmission, wet clutches, brakes and hydraulic systems.

The exclusive Hy-Gard formulation contains a viscosity-improver additive that provides critical component protection, especially during startup and under heavy load. Can also be used in many non-Deere transmission and hydraulic systems. Bio Hy-Gard II™ and Low-Viscosity Hy-Gard™ are also available to meet various equipment needs.

## Hy-Gard

- Performance-tested in the lab and the field.
- Polymeric improver helps retain viscosity over a wide range of operating temperatures.
- Reduces wet-brake chatter and ensures high braking capacity.
- Smooths wet-clutch operation.
- Highly water tolerant to resist the sludge formation that causes filter clogging and hydraulic-system malfunction.
- Anti-oxidation capability enables high-temperature performance, helping keep transmissions and hydraulic system parts cool and clean.
- Provides protection against rust and corrosion, particularly during low-use periods.
- Anti-wear additives minimize gear and bearing wear.



# Greases

Our greases are specially formulated to meet demanding off- and on-road equipment applications. We have quality grease for every type of application, from light to severe duty, including high-temperature environments and extreme pressures.

## GOOD

Multi-purpose Lithium Grease. An ideal all-season grease for light- to medium-duty applications.

## BETTER

Multi-purpose HD (heavy duty) Lithium Complex Grease should be used for wheel bearings, U-joints and other heavy-duty grease points in applications requiring lithium grease.

## BEST

Multi-purpose SD (super duty) Polyurea Grease and Extreme-Duty Synthetic Grease are our best multi-purpose greases. Ideal for high temperatures and extreme pressures.



## Plus-50™ II Premium Engine Oil

Plus-50 II Premium Engine Oil was developed to meet the needs of both modern and heritage diesel engines. Recommended for heavy-duty off-road equipment, on-road trucks, 4-cycle marine engines, natural gas engines, pickups and automobiles.



TY26679

**Applications**  
Plus-50 II is an exclusive John Deere formula that meets or exceeds current industry requirements. Recommended for use in all engines with API oil service categories of CK-4, C1-4, C1-4 PLUS, CI-4, and CH-4, as well as SN, SM, and SL. It comes in SAE 15W-40, 10W-30 and 0W-40 viscosity grades.

- 1 Provides superior protection for current and older engines.
- 2 Allows for extended oil-change intervals up to 500 hr.
- 3 Formulated specifically to inhibit wear, corrosion, sludge, soot, varnish and oxidation.
- 4 Delivers proven low-temperature, low-emission engine performance.
- 5 Provides a full-fleet solution.
- 6 John Deere JDQ-78X diesel engine oil dyno tested for unsurpassed performance.
- 7 Compatible with biodiesel fuels and tested with B20 biodiesel blend.

## Fleetguard® for All-Makes Equipment

Our Fleetguard filters give you the correct filter to help protect your engine and many other applications, such as hydraulic, transmission, fuel, air and fuel/water separator filters.

All Fleetguard filters meet or exceed OEM specifications and are supported by the best warranty in the industry.

We have a full line of Fleetguard filters available to fit the Hagie Sprayer applications. Visit your local John Deere dealer for more information.

Available Fleetguard filters:

- 1 Fuel
- 2 Fuel Separator
- 3 Hydraulic
- 4 Lubricant
- 5 Water
- 6 Maintenance Kit
- 7 Air Filters

