

Guidelines for the use of biodiesel

As a long-time supporter of biodiesel, New Holland approves the use of B20 biodiesel in all current production equipment powered by New Holland-manufactured engines. (The biodiesel fuel used must meet ASTM D6751 fuel quality standards.)

While all New Holland tractors are approved for B5 biodiesel, most are approved for B20. The engines in some New Holland product models are not manufactured by New Holland, so the biodiesel usage guidelines specified by the engine manufacturer must be followed. Consult your New Holland dealer for more information.

- **Buy biodiesel meeting the fuel standards ASTM D6751** from a trusted source that understands the product and maintains good product quality. Preferably buy the biodiesel pre-blended from the supplier. Mixing the diesel fuel and biodiesel on-site can result in a non-homogeneous mixture that can lead to problems.

- **Fuel tanks should be kept as full as possible** to limit the amount of air and water vapors in them. Biodiesel will actually attract water vapors out of the air. Water drains on engine-mounted fuel filters must be drained on a regular basis, recommended at least once a week.

- **Check the engine oil dipstick daily** to ensure that the biodiesel has not deteriorated the fuel pump seals. This would allow fuel into the engine sump, diluting the oil and raising the oil level.

- **Do not store biodiesel in on-site storage tanks for more than three months.** The fuel should be stored in a clean, dry, dark environment. Acceptable storage tank materials include aluminum, steel, fluorinated polyethylene, fluorinated polypropylene and Teflon. Copper, brass, lead, tin, and zinc should be avoided.

- **Do not store equipment for more than three months with biodiesel blends**

in the fuel system. If long storage periods are necessary, the engine should be run on pure diesel fuel for 20 to 30 minutes to flush the biodiesel fuel out of the engine fuel system prior to storage.

- **Correctly treat the fuel blend for cold weather usage** when necessary.

- **Use an algacide during the spring and summer months.** This prevents problems with algae growth in the system.

- **Clean up any spills immediately.**

Biodiesel spillage can cause damage to the paint on your machine.

- When switching from diesel to biodiesel use, you may have to **change the fuel filters** once or twice between normal filter change intervals until the system gets cleaned. Biodiesel has a solvent effect that may release deposits accumulated on tank walls and pipes from previous diesel fuel usage. The release of deposits may end up in fuel filters initially, so fuel filters should be checked more frequently at first. In some instances, complete cleaning of the whole fuel handling system and storage tanks may be required.

- **Check all units for adequate antifreeze.**

- **Check all units for winter fuel blend.**

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