

# GreensCare Plus

## High Performance Biodegradable Hydraulic Fluid

Manufactured exclusively for Jacobsen, A Textron Company, by

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### Description

GreensCare Plus Hydraulic Fluids are high performance, biodegradable, non-hazardous hydraulic fluid. The products are formulated for severe service, extreme high temperature (400° F), low temperature (-50° F) and high pressure hydraulic applications. Formulated from biodegradable, non-toxic base oils that afford exceptional oxidation and thermal properties, GreensCare Plus biodegradable hydraulic fluids are ideal for mobile hydraulic systems operating in environmentally sensitive areas. The fluids exhibit enhanced wear protection, cleanliness and longer life than conventional petroleum hydraulic oils. GreensCare Plus can directly replace petroleum oil based hydraulic fluids - yet has reduced environmental impact in the event of a leak or spill.

### Typical Properties

	GreensCare Plus 46	GreensCare Plus 68
ISO Viscosity Grade	46	68
Viscosity, centistokes		
@ 100 °C	10.0	13.5
@ 40° C	48	68
Viscosity Index	185	176
Brookfield Viscosity@-30C, cps	2900	5100
Pour Point, °C	-51	-48
Flash Point, °F	430	420
Specific Gravity, 15.6C (60F)	0.86	0.856
Density, lb/gal, 15.6C (60F)	7.11	7.13
API Gravity, 15.6C (60F)	34.2	33.8

**Performance Properties**

	<b>GreensCare Plus 46</b>	<b>GreensCare Plus 68</b>
Rust, D-665B	Pass	Pass
FZG, D5182, Pass Stage	12	12
Oxidation Stability, D-943, dry Hrs to TAN>2	>2000	>2000
Demulsibility, D-1401	40/40/0	40/40/0
Copper Corrosion, D-130	1A	1A
Foam, D-892 (Seq. I,II,III)	0/0/0	0/0/0
Vickers 35VQ25 Vane Pump Test	Pass	Pass
Seal Compatibility (Buna-N, Viton, polyurethane)	Pass	Pass
Turf Response to Spill	Grow back	Grow back
Biodegradability, D 5864, %	>60	>60
Aquatic Toxicity:		
Trout, LC50, ppm, OECD 201	>5,000	>5,000
Daphnia magna, EC50 ppm, OECD 202	>5,000	>5,000
Algae EC50, ppm, OECD 203	100 – 1000	100 – 1000

Other notes: GreensCare Plus fluids meet the requirements for the following manufacturers and most major manufacturers: Denison HF-O, Vickers M-2950-S, Vickers V-104C, Vickers 35VQ-25, Cincinnati Milacron P-68/P-70/P-69, Sauer Sundstrand, ATI 9101, Denison TP 30283A, and Vane Pump Test/P46 Pump Test, and Rexroth.