

Biobased Alternatives to Oil-Based Lubricants

Original Product	Replacement Product Company	Replacement Product	Notes	Company Contact Information	Product Website
Hydraulic Fluids - Mobile Equipment					
CAT 8T-9580 SAE 10W Used on dozers, track loader, compactor, and track hoe	Caterpillar	CAT Bio Hydo (HEES)	Found on CAT website; Dealer doesn't think it can be used as a replacement unless specified. Cat specs say that any hydraulic fluid meeting BF-1 standards is ok; HEES exceeds BF-1	http://www.cat.com/cda/components/fullArticle?m=37675&x=7&id=90103 1-309-675-1000	This is a link outside of the Caterpillar website to the product data sheet. This sheet was unable to load directly from the CAT website. https://sos.finning.ca/downloads/catspecs/Biodegradable%20Hydraulic%20Oil%20Data%20Sheet_pehp
Kubota Super UDT Trans Hydraulic Fluid 40105 - Used on zero turn mower F3680	CHS Inc. / Cenex	Biomax THF	Noted as a replacement for Kubota UDT Transdraulic Fluid in product description sheet	https://www.cenex.com 1-800-232-3639 lubricants@chsinc.com	https://secure.chsinc.com/portal/server.pt/gateway/PTARGS_0_2_5509_0_0_18/Biomax.pdf
Case TCH Fluid (MS-1210) - Used in construction and industrial equipment	CHS Inc. / Cenex	Biomax THF	Noted as a replacement for CASE TCH Fluid 1209 in product description sheet. Not yet qualified for 1210, but both liquids are very similar.	https://www.cenex.com 1-800-232-3639 lubricants@chsinc.com	https://secure.chsinc.com/portal/server.pt/gateway/PTARGS_0_2_5509_0_0_18/Biomax.pdf
Diesel Fuel Additives					
Diesel Fuel Supplement + Cetane Boost 1:400	Schaeffer Manufacturing Company	SoyShield (All Season) Premium SoyShield (Winterized)	After contacting a technical representative for Schaeffer, they stated that their products have the same attributes as the Diesel Fuel Supplement + product.	http://www.schaefferoil.com/fuel_additives.html 1-800-325-9962	http://www.schaefferoil.com/soy_shield.html http://www.schaefferoil.com/premium_soy_shield.html
SeaFoam Auto Marine Fleet (Diesel)	Renewable Lubricants	Bio-Power (Summer or Winter Fuel Conditioner) Bio-Booster (Cetane Improver)	These two products are able to be combined to provide the same attributes that the Diesel Fuel Supplement + product.	http://www.renewablelube.com/ 330-877-9982 jgarmier@renewablelube.com	http://www.renewablelube.com/products/Bio-Power%20Summer.html http://www.renewablelube.com/products/Bio-Power%20Winter.html http://www.renewablelube.com/products/Bio-Booster.html

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Penetrating Lubricant					
PB Blaster: PB-50	CHS Inc. / Cenex	BioMax BPL	The attributes and uses are similar to those of PB Blaster: PB-50.	https://www.cenex.com 1-800-232-3639 lubricants@chsinc.com	https://secure.chsinc.com/portal/server.pt/gateway/PTARGS_0_2_5508_0_0_18/BioMaxBPL.pdf
PB Blaster: PB Penetrating Catalyst	Renewable Lubricants	Bio-Blast Penetrant (Low Surface Tension)	Product website states that it can replace this PB Blaster product.	http://www.renewablelube.com/ 330-877-9982 jgarmier@renewablelube.com	http://www.renewablelube.com/products/Bio-Blast.html
WD-40	Workcell Systems, Inc.	Glysol PenTrate	Product website states that it is a soy alternative to WD-40.	http://www.workcellsystems.com/index.html 847-579-0595 info@workcellsystems.com	N/A
AeroKroil	Renewable Lubricants	Bio Penetrating Lubricant (BPL) + Anti-Wear	Product website states that it can replace this AeroKroil product.	http://www.renewablelube.com/ 330-877-9982 jgarmier@renewablelube.com	http://www.renewablelube.com/products/Bio-Penetrating%20Lubricant.html
#190 Penetro 90 Spray	Renewable Lubricants	Bio Penetrating Lubricant (BPL) + Moly + Tack	A Renewable Lubricants representative states that it can replace #190 Penetro 90 Spray	http://www.renewablelube.com/ 330-877-9982 jgarmier@renewablelube.com	http://www.renewablelube.com/products/Bio-Penetrating%20Lubricant%20Plus%20Moly+%
Unipro Bolt Buster	This product is no longer in production so we were unable to find information about it which would have helped us find an alternative.				