

# Environmentally Acceptable Hydraulic Fluids HEPG, HEES for Axial Piston Units

 RE 90221-01/11.11  
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Table of environmentally acceptable hydraulic fluids.

This does not imply that such tests were exhaustive or that a recommendation of such fluids is implied.

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Type of fluid	Synthetic hydraulic fluids based on Polyglycol, HEPG			Synthetic hydraulic fluids based on esters, HEES			
ISO-viscosity class	VG 22	VG 32	VG 46	VG 22	VG 32	VG 46	VG 68
Manufacturer ↓							
ACT		UCON Trident AW 32	UCON Trident AW 46				
ADDINOL						Ökosynth HEES 46	
ARAL						Forbex SE 46 <sup>1)</sup>	
AUSCHEM, ITALIA						Pentaflux 46 AT	Pentaflux 68 AT
AVIA	Avia Hydrosynth 22	Avia Hydrosynth 32	Avia Hydrosynth 46		Avia <sup>1)</sup> Syntofluid N 32	Avia <sup>1)</sup> Syntofluid N 46	Avia <sup>1)</sup> Syntofluid N 68
BayWa					Plantohyd Super S Plantohyd Super Syn <sup>1)</sup>	Plantohyd Super S Plantohyd Super Syn <sup>1)</sup>	Plantohyd Super S Plantohyd Super Syn <sup>1)</sup>
BECHEM				Hydrostar HEP 22	Hydrostar HEP 32	Hydrostar HEP 46 Hydrostar HEES 46 Longlife <sup>1)</sup>	Hydrostar HEP 68
BINOL AB						Binol Hyd. 46 E	
BINOL BioSafe Oy				BioSafe HO 22 SE	BioSafe HO 32 SE	BioSafe HO 46 SE BioSafe <sup>1)</sup> HO 46 XE	Biosafe HO 68 SE BioSafe <sup>1)</sup> HO 68 XE
BLASER						Blasol LP8905	
Bremer & Leguil				Rivolta SBH 11		Rivolta SBH 23	
BUCHER & CIE MOTOREX						MOTOREX <sup>1)</sup> OEKOSYNT HEES 46	
CASTROL				BioBar 22 <sup>1)</sup> Carelube SES 22 <sup>1)</sup>	BioBar 32 <sup>1)</sup> Carelube HES Carelube SES 32 <sup>1)</sup>	BioBar 46 <sup>1)</sup> Carelube HES 46 Carelube SES 46 <sup>1)</sup> Carelube HFS 46 <sup>1)</sup>	BioBar 68 <sup>1)</sup> Carelube SES 68 <sup>1)</sup>

1) Based on saturated Esters

Type of fluid	Synthetic hydraulic fluids based on Polyglycol, HEPG			Synthetic hydraulic fluids based on esters, HEES			
ISO-viscosity class	VG 22	VG 32	VG 46	VG 22	VG 32	VG 46	VG 68
Manufacturer ↓							
Cognis Corporation				Pro Eco <sup>1)</sup> HE 801-22 ProEco HE 501-22	ProEco 332 ProEco <sup>1)</sup> 432LL Pro Eco <sup>1)</sup> HE 801-32 ProEco HE 501-32	ProEco 346 ProEco <sup>1)</sup> 446LL ProEco <sup>1)</sup> HE 801-46 ProEco HE 501-46	ProEco 368 ProEco <sup>1)</sup> 468LL ProEco <sup>1)</sup> HE 801-68 ProEco HE 501-68
Conoco 76 Phillips 66					Synterra® Hydraulic Fluid 32	Synterra® Hydraulic Fluid 46	Synterra® Hydraulic Fluid 68
CONDAT					CONDAT Bio 32	CONDAT Bio 46	CONDAT Bio 68
Eni S.p.A.				Arnica S22	Arnica S32	Autol HE46 Arnica S46	Arnica S68
ESSO		Univis WEPG 32	Univis WEPG 46			Univis HEES 46	
FINKE				Aviaticon HY HE 22	Aviaticon HY HE 32	Aviaticon HY HE 46	Aviaticon HY HE 68
FRAGOL	Hydraulic TR 22	Hydraulic TR 32	Hydraulic TR 46	Hydraulic HE 22 Hydraulic HE-SH 22 <sup>1)</sup>	Hydraulic HE 32	Hydraulic HE 46 Hydraulic HES 46 <sup>1)</sup> Hydraulic HE-SH 46 <sup>1)</sup>	Hydraulic HES 68 <sup>1)</sup>
FUCHS		Renolin PG 32	Renolin PG 46	Plantohyd S 22 Plantohyd Polar 15S + 22S Plantosyn 15 HVI <sup>1)</sup>	Plantohyd S 32 Plantosyn 3268 <sup>1)</sup> UNIFLUID 32 <sup>1)</sup>	Plantohyd S 46 Plantosyn 3268 <sup>1)</sup> Plantosyn 46 HVI <sup>1)</sup>	Plantohyd S 68 Plantosyn 3268 <sup>1)</sup> Plantosyn 68 HVI <sup>1)</sup>
GLOBOIL					BHF 32	BHF 46	BHF 68
Gulf Oil International						Gulf Harmony Bio-Synth 46	
HESSOL						HLP 46 Bio	
Houghton		Hydro drive P-32	Hydro drive P-46		Vital Fluid SL 32/B	Vital Fluid SL 46/B	Vital Fluid SL 68/B
KAJO-Chemie				Bio-Hydrauliköl HEES 22 HEES 22-S <sup>1)</sup>	Bio-Hydrauliköl HEES 32 HEES 32-S <sup>1)</sup>	Bio-Hydrauliköl HEES 46 HEES 46-S <sup>1)</sup>	Bio-Hydrauliköl HEES 68 HEES 68-S <sup>1)</sup>
KENDALL Demmler & Co Schweiz						Synth. Natura 46HV	
Klöckner					DEUTZ OEL H-EP 32 BA	DEUTZ OEL H-EP 46 BA	DEUTZ OEL H-EP 68 BA
Kompressol		Biovis					

1) Based on saturated Esters

Type of fluid	Synthetic hydraulic fluids based on Polyglycol, HEPG			Synthetic hydraulic fluids based on esters, HEES			
ISO- viscosity class	VG 22	VG 32	VG 46	VG 22	VG 32	VG 46	VG 68
Manufacturer ↓							
Kuwait Petroleum Q8					Holbein 32	Holbein 46 Q8 Holbein NWG 46	
Lubricating Dutchman					LD Bio-Hydresther HVI 32	LD Bio-Hydresther HVI 46	LD Bio-Hydresther HVI 68
Leprince-Siveke						Leprincol BSE Hydrosynt 46	Leprincol BSE Hydrosynt 68
LUBRITECH Fuchs					Eco-HYD 32 S	Eco-HYD 46 S S Plus	Eco-HYD 68 S
MOBIL						EAL Syndraulic 46 Hydraulic Oil UF 46	
MOBIL/USA					Envirosyn 32 H	Envirosyn 46 H	Envirosyn 68 H
MOL RT, Ungarn					Biokom HID 46S		
Molyduval					Chemlube 5126		
MOTUL						MOTULRUBRIC BIO 46	
Nat Oil					SunLub Ultra S VG 32	SunLub Ultra S VG 46	
NILS ITALIA SRL					NILS ANTARES ES ISO VG 32 <sup>1)</sup>	NILS ANTARES ES ISO VG 46 <sup>1)</sup>	
ÖMV				Biohyd MS 15	Biohyd MT 32 Biohyd MS 32	Biohyd MT 46 Biohyd MS 46	Biohyd MS 68
OEST						Bio Synth. HYD 46	
PAKELO						Geolube Hydraulic EP-46	
PANOLIN, Schweiz				HLP Synth 15 <sup>1)</sup> 22 <sup>1)</sup> Gro Synth 22 <sup>1)</sup>	HLP Synth 32 <sup>1)</sup> Gro Synth 32 <sup>1)</sup>	HLP Synth 46 <sup>1)</sup> Gro Synth 46 <sup>1)</sup>	HLP Synth 68 <sup>1)</sup> Gro Synth 68 <sup>1)</sup>
PETRO-Canada					Premium ECO HT-E 32	Premium ECO HT-E 46	
PETROFER						Envolubric HE 46	Envolubric HE 68
Quaker Chemical						Greensave 46	
RAISIO Group					Lubria HO 32 Eco Plus	Lubria HO 46 Eco Plus Lubria HO 46 Eco	Lubria HO 68 Eco Plus
SHELL					Naturelle HF-X 32 <sup>1)</sup>	Naturelle HF-E 46 Naturelle HF-X 46 <sup>1)</sup>	Naturelle HF-E 68

1) Based on saturated Esters

Type of fluid	Synthetic hydraulic fluids based on Polyglycol, HEPG			Synthetic hydraulic fluids based on esters, HEES, Polyalphaolefin, HEPR <sup>2)</sup>			
ISO-viscosity class	VG 22	VG 32	VG 46	VG 22	VG 32	VG 46	VG 68
Manufacturer ↓							
STATOIL						Hydraway Bio SE 46 Hydraway SE 46 HP	
Strub & Co Schmiertechnik CH-Reiden				Hydrosynt HEES 22	Hydrosynt HEES 32	Hydrosynt HEES 46 Vulcolube Synt HEES ISO 46 <sup>1)</sup>	Hydrosynt HEES 68
Stuart			Hydrocor E 46 ISOCOR E 46			ISOCOR HF 46	ISOCOR HF 68 ISOCOR HF 2000
TAMOIL					Green Hydro Safety 32	Green Hydro Safety 46	Green Hydro Safety 68
Terresolve				Enviro-Logic <sup>2)</sup> 122	Enviro-Logic <sup>2)</sup> 3032	Enviro-Logic <sup>2)</sup> 3046	Enviro-Logic <sup>2)</sup> 3068
TOTAL FINA ELF					TOTAL Biohydran TMP 32	TOTAL Biohydran TMP 46 TOTAL Biohydran SE 46 <sup>1)</sup>	TOTAL Biohydran TMP 68
VALVOLINE			Ultrasyn PG 46		Unisyn HLP 22/46	Unisyn HLP 32/68	
York Ginouves					York 777 <sup>1)</sup> Bio VG 32	York 777 <sup>1)</sup> Bio VG 46	
Zeller & Gmelin						Divinol HE 46	
Vickers Oils					ECOSURE <sup>1)</sup> HSE 32	ECOSURE <sup>1)</sup> HSE 46	ECOSURE <sup>1)</sup> HSE 68

1) Based on saturated Esters

2) Based on polyalphaolefin (PAO)

Bosch Rexroth AG  
Hydraulics  
Product Segment Axial Piston Units  
Elchingen Plant  
Glockeraustrasse 2  
89275 Elchingen, Germany  
Phone +49 (0) 73 08 82-0  
Facsimile +49 (0) 73 08 72 74  
info.brm-ak@boschrexroth.de  
www.boschrexroth.com/brm

Horb Plant  
An den Kelterwiesen 14  
72160 Horb, Germany  
Phone +49 (0) 74 51 92-0  
Facsimile +49 (0) 74 51 82 21

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1800-OILSOL  
1800-645765

<https://oilsolutions.com.au/>

[sales@oilsolutions.com.au](mailto:sales@oilsolutions.com.au)