

INNOMOTICS

Freigegebene Schmierstoffe für Innomatics Getriebemotoren

Approved lubricants for Innomatics Geared Motors

NT 7300

AK

A5E43774560A

Nov-25



A5E43774560A**Approved lubricants****NT 7300****A-CLP oils for Innomotics SG spur, bevel, parallel shaft geared motors****Standard oils****-a Mineral oils API I or II****-b Polyglycols****-c Poly- α -olefins**

Code No.	Table	Update
A11 - A17	<u>A-a</u>	21.11.2017
A21 - A27	<u>A-b</u>	21.11.2017
A31 - A37	<u>A-c</u>	01.09.2021

biologically degradable oils**-d synthetical Ester**

A41 - A47	<u>A-d</u>	21.11.2017
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physiologically safe oils**-e Polyglycols****-f Poly- α -olefins**

A51 - A57	<u>A-ef</u>	01.08.2025
A61 - A67	<u>A-ef</u>	21.11.2017

B - CLP oils for Innomotics SG worm geared motors**Standard oils****-b Polyglycols**

B21 - B27	<u>B-b</u>	21.11.2017
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physiologically safe oils**-e Polyglycols**

B51 - B57	<u>B-e</u>	21.11.2017
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H - roller bearing greases for Innomotics geared motors

H13 - H16	<u>H</u>	19.01.2023
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Table A-a Standard mineral oils for Innomotics SG helical (Z, D and E), bevel (K) and parallel (F) geared motors - API-group = I or II

Innomotics A5E43774560A		Table A-a Standard mineral oils for Innomotics SG helical (Z, D and E), bevel (K) and parallel (F) geared motors - API-group = I or II						NT 7300 Nov-25	
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864									
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)								
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000		
	Innomotics Code No.								
	A17	A16	A15	A14	A13	A12	A11		
	Mineral oils								
 Addinol			Gear Oil 220 F ECO GEAR 220 M						
 Bantleon			Avilub Gear RSX-F 220						
 BayWa AG			TECTROL GEAR CLP PLUS 220						
 Bharat Petroleum			MAK Amocam Plus 220						
 Castrol			Alpha SP 220 Optigear BM 220						
 CEPSA			ENGRANAJES XMP 220						
 Chevron			Meropa XL 220						
 Cogelsa			ULTRAGEAR EP 220						

Innomotics A5E43774560A		Table A-a Standard mineral oils for Innomotics SG helical (Z, D and E), bevel (K) and parallel (F) geared motors - API-group = I or II						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A17	A16	A15	A14	A13	A12	A11	
	Mineral oils							
 Engen Petroleum Ltd.			Gengear XEP 220					
 ENI S.P.A			eni Blasia FMP 220					
 Fuchs			RENOLIN CLP 220					
			RENOLIN HighGear 220					
			RENOLIN CLP VCI 220					
			RENOLIN CLP Plus 220					
 Fuchs Lubritech			GEARMASTER CLP 220					
GEARMASTER HPGO 220								
 GMERl(Guangyan)			GMERl(Guangyan) CH Gear oil 220					
 Gulf Oil International			Gulf Gear WT 220					
 Hindustan Petroleum			PARTHAN ML 220					
			PARTHAN EP 220 MA					

Innomotics A5E43774560A		Table A-a Standard mineral oils for Innomotics SG helical (Z, D and E), bevel (K) and parallel (F) geared motors - API-group = I or II						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A17	A16	A15	A14	A13	A12	A11	
	Mineral oils							
 Indian Oil			Servomesh Gold 220					
 Klüber			Klüberoil GEM 1 - 220 N					
 Lukoil			LUKOIL STEELO 220					
 LOTOS OIL			TRANSMIL EXTRA XSP 220					
 Mobil			Mobilgear 600 XP 220					
 MOL-LUB Ltd.			MOL Ultrans EP 220					
 Mosil Lubricants			Gearlube SP-e220					
 MOTOREX			GEAR COMPOUND PLUS ISO 220					

Innomotics A5E43774560A		Table A-a Standard mineral oils for Innomotics SG helical (Z, D and E), bevel (K) and parallel (F) geared motors - API-group = I or II						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A17	A16	A15	A14	A13	A12	A11	
	Mineral oils							
 OMV R & M			OMV gear HST 220					
 Olma d.o.o.			OLMAREDOL FL 220					
 PANOLIN AG			GEAR CLP FL 220					
 Pertamina			MASRI SUPER FLG 220					
 PETROGAL			GALP TRANSGEAR FA 220					
 Petrol Ofisi			Gravis MP 220					
 Petromin Corporat.			Petromin Gear Lube EPF 220					
 Petronas			Petronas Gear FL 220					

Innomotics A5E43774560A		Table A-a Standard mineral oils for Innomotics SG helical (Z, D and E), bevel (K) and parallel (F) geared motors - API-group = I or II						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A17	A16	A15	A14	A13	A12	A11	
	Mineral oils							
 Setral			MI-setral-GEAR 220					
 Shanghai Hitecrun			HITECSYN MMP 220					
 Shell			Omala S2 GX 220					
 Sinopec			Great wall 4407 Heavy-Duty Industrial Gear Oil 220					
			Great Wall AP 220					
 Statoil Lubricants			Loadway EP 220					
 TOTAL			CARTER XEP 220					
			CARTER EP 220					
 Verkol			GEAROIL CKC 220					

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**Table A-b Standard PG oils for Innomotics SG helical (Z, D and E),
bevel (K and B), parallel (F) geared motors**

Innomotics A5E43774560A		Table A-b Standard PG oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A27	A26	A25	A24	A23	A22	A21	
	Polyglycols							
 BASF			Plurasafe GL Plus 220		Plurasafe GL Plus 460			
 BayWa AG			TECTROL GEAR CLP PG 220		TECTROL GEAR CLP PG 460			
 Castrol			Tribol 1300 / 220		Tribol 1300 / 460			
			Optileb GT 1800 / 220		Optileb GT 1800 / 460			
			Optigear Synthetic 1300 / 220		Optigear Synthetic 1300 / 460			
 Fuchs			RENOLIN PG 220		RENOLIN PG 460			
 Fuchs Lubritech			GEARMASTER PGP 220		GEARMASTER PGP 460			
 Klüber			Klübersynth GH 6 - 220		Klübersynth GH 6 - 460			
 MOL-LUB Ltd.			MOL Ultrans Synt WS 220		MOL Ultrans Synt WS 460			

Innomotics A5E43774560A		Table A-b Standard PG oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) geared motors						NT 7300 Nov-25						
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864														
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)													
	ISO VG 100		ISO VG 150		ISO VG 220		ISO VG 320		ISO VG 460		ISO VG 680		ISO VG 1000	
	Innomotics Code No.													
	A27		A26		A25		A24		A23		A22		A21	
	Polyglycols													
 MOTOREX				MOTOREX GEARSYNT 220				MOTOREX GEARSYNT 460						
 Q8 Kuweit Petroleum				Q8 Gade SF 220				Q8 Gade SF 460						

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Table A-c Standard PAO oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) and worm (C and SCQ) geared motors

Innomotics A5E43774560A		Table A-c Standard PAO oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) and worm (C and SCQ) geared motors						NT 7300 Nov-25	
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864									
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)								
	ISO VG 68	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000		
	Innomotics Code No.								
	A37	A36	A35	A34	A33	A32	A31		
	Poly-α-olefins								
 ADDINOL	Addinol Eco Gear PAO 68 S		ECO GEAR 220 S		ECO GEAR 460 S				
 AMPSOIL			Synthetic Power Transmission EP Gear Oil 220		Synthetic Power Transmission EP Gear Oil 460				
 Anderol			Anderol 5220 Plus		Anderol 5460 Plus				
 AVIA					AVIA Syntogear PE 460				
 Bantleon			Avilub Gear SX 220		Avilub Gear SX 460				
 BASF			Emgard Wind P 220		Emgard Wind P 460				
			Emgard EP XE 220		Emgard EP XE 460				
 BayWa AG									
 Bel-Ray			Synthetic Gear Oil 220		Synthetic Gear Oil 460				

Innomotics A5E43774560A		Table A-c Standard PAO oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) and worm (C and SCQ) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 68	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A37	A36	A35	A34	A33	A32	A31	
	Poly-α-olefins							
 Bharat Petroleum			MAK Syngear 220		MAK Syngear 460			
 Castrol			Alphasyn EP 220		Alphasyn EP 460			
 CEPSA								
 Engen Petroleum Ltd.			Gengear SPL A-220		Gengear SPL A-460			
 Fuchs	RENOLIN UNISYN XT 68		RENOLIN UNISYN XT 220		RENOLIN UNISYN XT 460			
 Fuchs Lubritech					GEARMASTER SYN 460			
 Gulf Oil International			Gulf EP Lubricant SY 220		Gulf EP Lubricant SY 460			
 Hindustan Petroleum			Parthan EP SA 220		Parthan EP SA 460			

Innomotics A5E43774560A		Table A-c Standard PAO oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) and worm (C and SCQ) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 68	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A37	A36	A35	A34	A33	A32	A31	
	Poly-α-olefins							
 Indian Oil			Servosyngear Plus 220		Servosyngear Plus 460			
 Klüber								
 Lubritech Limited			GEP Synogear Super CKT 220		GEP Synogear Super CKT 460			
 Lukoil			Lukoil Steelo S 220		Lukoil Steelo S 460			
 Mobil			Mobil SHC 630		Mobil SHC 634			
			Mobil SHC Elite 220		Mobil SHC Elite 460			
			Mobil SHC Gear 220		Mobil SHC Gear 460			
 MOTOREX			GEAR SINTEC CLP 220		GEAR SINTEC CLP 460			
 ORLEN OIL			TRANSGEAR PE 220		TRANSGEAR PE 460			
 OMV Petrol Ofisi			Gravis SP 220		Gravis SP 460			

Innomotics A5E43774560A		Table A-c Standard PAO oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) and worm (C and SCQ) geared motors						NT 7300 Nov-25	
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864									
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)								
	ISO VG 68	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000		
	Innomotics Code No.								
	A37	A36	A35	A34	A33	A32	A31		
	Poly-α-olefins								
 PANOLIN AG			TECSYNTH FL 220						
 PETRO-CANADA			Enduratex Synthetic EP 220		Enduratex Synthetic EP 460				
 PETROGAL			GALP TRANSGEAR SY FA 220		GALP TRANSGEAR SY FA 460				
 PETRONAS			Petronas Gear Syn PAO 220		Petronas Gear Syn PAO 460				
 Phillips 66									
 PTT Public Company			PTT Drivera Synthetic S220		PTT Drivera Synthetic S460				
 REPSOL YPF			Super Tauro Sintetico 220		Super Tauro Sintetico 460				
 Setral			SYN-setral-GEAR 220		SYN-setral-GEAR 460				

Innomotics A5E43774560A		Table A-c Standard PAO oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) and worm (C and SCQ) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 68	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A37	A36	A35	A34	A33	A32	A31	
	Poly-α-olefins							
 Shanghai Hitecrun			HITECSYN SMP Plus 220		HITECSYN SMP Plus 460			
 Shell			Shell Omala S4 GXV 220		Shell Omala S4 GXV 460			
 SINOPEC			Great Wall AP-S 220		Great Wall AP-S 460			
			Great Wall 4408 HD 220		Great Wall 4408 HD 460			
			Great Wall WT Gearbox Oil 220					
 TOTAL			CARTER SH 220		CARTER SH 460			

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**Table A-d Biologically degradable oils for Innomotics SG helical (Z, D and E),
bevel (K), parallel (F) geared motors**

Innomotics A5E43774560A		Table A-d Biologically degradable oils for Innomotics SG helical (Z, D and E), bevel (K), parallel (F) geared motors						NT 7300 Nov-25						
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864														
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)													
	ISO VG 100		ISO VG 150		ISO VG 220		ISO VG 320		ISO VG 460		ISO VG 680		ISO VG 1000	
	Innomotics Code No.													
	A47		A46		A45		A44		A43		A42		A41	
	synthetical Esters													
 Fuchs				PLANTOGEAR 220 S										

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**Table A-ef Physiologically safel oils for Innomotics SG helical (Z, D and E),
bevel (K and B), parallel (F) geared motors**

Innomotics A5E43774560A		Table A-ef Physiologically safel oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A57	A56	A55	A54	A53	A52	A51	
	Polyglycols							
 BASF			Plurasafe GL FG 220		Plurasafe GL FG 460			
 Blaser			FOODOIL GGF 220		FOODOIL GGF 460			
 Castrol			Optileb GT 1800 / 220		Optileb GT 1800 / 460			
 Fuchs Lubritech			CASSIDA FLUID WG 220		CASSIDA FLUID WG 460			
 Klüber	Klübersynth NH 1 6 - 100		Klübersynth NH 1 6 - 220		Klübersynth UH 1 6 - 460			
	Klübersynth UH 1 6 - 100		Klübersynth UH 1 6 - 220					
 PAKELO			Allsint HS 220		Allsint HS 460			
			No Tox Oil PG 220		No Tox Oil PG 460			
 Setral			SYN-setral-GEAR/PGB 220 FD		SYN-setral-GEAR/PGB 460 FD			

Innomotics A5E43774560A		Table A-ef Physiologically safel oils for Innomotics SG helical (Z, D and E), bevel (K and B), parallel (F) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	A67	A66	A65	A64	A63	A62	A61	
	Poly-α-olefins							

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Table B-b Standard PG oils for Innomotics SG worm (C, S and SCQ) geared motors

Innomotics A5E43774560A		Table B-b Standard PG oils for Innomotics SG worm (C, S and SCQ) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	B27	B26	B25	B24	B23	B22	B21	
	Polyglycols							
 BASF			Plurasafe GL Plus 220		Plurasafe GL Plus 460			
 Castrol			Tribol 1300 / 220 Optigear Synthetic 1300 / 220		Tribol 1300 / 460 Optigear Synthetic 1300 / 460			
 Fuchs			RENOLIN PG 220		RENOLIN PG 460			
 Fuchs Lubritech			GEARMASTER PGP 220		GEARMASTER PGP 460			
 Klüber			Klübersynth. GH 6 - 220		Klübersynth. GH 6 - 460			
 MOL-LUB Ltd.			MOL Ultrans Synt WS 220		MOL Ultrans Synt WS 460			
 Q8 Kuwait Petroleum			Q8 Gade SF 220		Q8 Gade SF 460			

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Table B-e Physiologically safe oils for Innomotics SG worm (C, S and SCQ) geared motors

Innomotics A5E43774560A		Table B-e Physiologically safe oils for Innomotics SG worm (C, S and SCQ) geared motors						NT 7300 Nov-25
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864								
Brand name	Viscosity class DIN ISO 3348 at 40 °C (mm2/s)							
	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	ISO VG 1000	
	Innomotics Code No.							
	B57	B56	B55	B54	B53	B52	B51	
	Polyglycols							
 BASF			Plurasafe GL FG 220		Plurasafe GL FG 460			
 Blaser			FOODOIL GGF 220		FOODOIL GGF 460			
 Castrol					Optileb GT 1800 / 460			
 Fuchs  Lubritech			CASSIDA FLUID WG 220		CASSIDA FLUID WG 460			
 Klüber	Klübersynth NH 1 6 - 100		Klübersynth NH 1 6 - 220		Klübersynth UH 1 6 - 460			
	Klübersynth UH 1 6 - 100		Klübersynth UH 1 6 - 220					
 Setral			SYN-setral-GEAR/PGB 220 FD		SYN-setral-GEAR/PGB 460 FD			

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Table H Lubricant greases for Innomotics geared motors

Innomotics A5E43774560A			Table H Lubricant greases for Innomotics geared motors					NT 7300 Nov-25	
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864									
Attention: The compatibility with the used oils has to be tested or asked at the oil-/ grease manufacturer!									
Brand name	NLGI class according to DIN 51818			Brand name	NLGI class according to DIN 51818				
	2	1			2	1			
	Innomotics Code No.				Innomotics Code No.				
	H16	H15			H14	H13			
	Mineral oil base / Lithium saponific				Mineral oil base / Lithium saponific				
 BP	Energrease LS 2			 Mobil					
 Castrol	Spheerol AP 2			 Shell	Gadus S2 V220 2				
 Chevron				 SRS					
 Schaeffler				 TOTAL	Multis EP 2				
 Fuchs	Renolit FWA 160				Mineral oil base / Polyurea saponific				
	Renolit H 443-HD 88								
				 Klüber	Petamo GHY 133 N				

Innomotics A5E43774560A			Table H Lubricant greases for Innomotics geared motors					NT 7300 Nov-25	
printed lists are not obligatory---the current version is to be found using the following link https://www.innomotics.com/hub/en/109753864									
Attention: The compatibility with the used oils has to be tested or asked at the oil-/ grease manufacturer!									
Brand name	NLGI class according to DIN 51818			Brand name	NLGI class according to DIN 51818				
	2	1			2	1			
	Innomotics Code No.				Innomotics Code No.				
	H16	H15			H14	H13			
	Mineral oil base / Lithium saponific				Mineral oil base / Lithium saponific				
	semisynth. base oil / calcium sulphonate complex soap				PAO oil base / Bentonit - without saponific material				
 Fuchs	Renolit CX-TOM 15 (Nur für Drehzahlen der Wälzlager < 2000 1/min geeignet / Only recommended for speeds of rolling bearings < 2000 rpm)								
	physiologically safe				biologically degradable				
	semisynth. base oil / calcium sulphonate complex soap								
 Bremer & Leguil	Cassida Grease GTS 2								
	PAO base / Aluminium c. saponific				Ester base / Calcium/Lithium saponific				
 Castrol		OBEEN UF 1		 Castrol	Biogrease EP 2				
				 Fuchs	PLANTOGEL 2 S				

The requirements on the industry gear oils are permanently increased because of the growing power density of the gear units. Therefore the oil manufacturers develop new and better oil formulations in shorter and shorter time-lags. On these causes the oil approval list for gear units must more frequently adapt to the current situation than in the past and one oil approval is only for five years valid. It is always a decision of the oil manufacturer in the end whether he applies for another release of his oil with extensive tests or whether he possibly puts a new request for an approval with a new oil. Only the oil manufacturer can mention to the user the reason for a cut of his oil from the approval list. The oil manufacturer knows the details of it. Innomatics can only notice that the oil manufacturer has not put any new requests for an approval after expiry for the approved period.

Date	Table	Brand name	Lubricant name	new approval	approval with restricted validity	approval is withdrawn	Brand name changed in	Lubricant name changed in
01.08.2025	A-ef, B-e	Klüber	Klübersynth NH1 6-XXX	X				
19.01.2023	H	Bremer & Leguil GmbH	CASSIDA GREASE GTS 2	X				
01.09.2021	A-c	Fuchs	RENOLIN XT XXX	X				
01.09.2021	A-c	Fuchs	RENOLIN CLP XXX			X		
05.03.2020	H	Fuchs	RENOLIT CX-TOM 15	X				
05.02.2019	H	Fuchs	PLANTOGEL 2 S	X				
10.04.2017	A-c	BASF	Emgard EP XE	X				
05.04.2017	A-c	Anderol	ANDEROL 5150 Plus	X				
31.03.2017	A-a	Fuchs Lubritech	GEARMASTER HPGO	X				
10.03.2017	A-c	Qingdao Copton	COPTON SHC Gear Series			X		
09.03.2017	A-a	BP	Energol GR-XP			X		
08.03.2017	A-c	Cogelsa	ULTRASYNTH EP			X		
07.03.2017	A-a	Gazpromneft	Gazpromneft Reductor F			X		
16.02.2017	A-g	IPIRANGA	IPIRANGA SP ULTRA. MPT XXX	X				
15.02.2017	A-c	Petronas	Petronas Gear SYN PAO XXX	X				
08.02.2017	A-a	Fuchs	RENOLIN CLP VCI	X				
19.01.2017	A-c	Total	Carter SH 1000			X		
19.01.2017	E-g	Shell	Gadina S3 SAE 40	X				
19.01.2017	E-g	Shell	Rimula R3+40		X			
19.01.2017	E-g	Shell	Sirius X 40		X			
19.01.2017	E-g	Shell	Melina 40		X			
19.01.2017	E-g	Shell	Gadina 40		X			
18.01.2017	A-a	Olma d.o.o	OLMAREDOL FL XXX	X				
16.01.2017	A-c	Shell	Shell Omala S5 Wind 320	X				
06.01.2017	A-a	Verkol	GEAR OIL CKC XXX	X				
05.01.2017	A-d	Repsol	Super Tauro GT 320	X				
09.12.2016	A-d	Royal Purple, LLC	Royal Purple Wind Gear 320					Gear Oil 320
31.10.2016	E-g	Aral	Super Kowal SAE 40			X		
31.10.2016	E-g	Texaco	Taro 20 DP 40			X		
26.10.2016	A-c	Gulf Oil International	Gulf EP Lubricant SY 150	X				
26.10.2016	A-c	Repsol	Super Tauro Sintetico 150	X				
19.10.2016	A-c	Cepsa	AEROGear SYNT 220 & 460			X		
19.10.2016	A-ef	PAKELO	No Tox Oil PG XXX	X				
19.10.2016	A-ef	PAKELO	Allsint HS XXX	X				
19.10.2016	A-b	PAKELO	No Tox Oil PG XXX			X		
19.10.2016	A-b	PAKELO	Allsint HS XXX			X		
19.10.2016	E-dm	Fuchs	Plantogear 150 S		X			
13.10.2016	A-c	Indian Oil	Servosyn gear Plus 150	X				
10.10.2016	A-c	Mobil	Mobil SHC Elite XXX	X				
10.10.2016	A-c	Bharat Petroleum Corp. Ltd.	MAK SYNGEAR 150	X				
06.10.2016	A-a	Shell	Omala S2 GX 100	X				
25.08.2016	A-d	Royal Purple, LLC	Royal Purple Wind Gear 320	X				
23.08.2016	A-a	Bharat Petroleum Corp. Ltd.	MAK Amocam Plus 680	X				
23.08.2016	A-a	Bharat Petroleum Corp. Ltd.	MAK Amocam Plus 150			X		
19.08.2016	A-c	Klüber	Klübersynth GEM 4 - 320 N	X				
12.08.2016	A-d	Starfire	Zephyrus 320	X				
12.08.2016	A-d	Fuchs	PLANTOGear 220 S		X			
26.07.2016	A-c	Shell	Omala S4 GXV XXX	X				
27.07.2016	A-a	Petronas	Petronas Gear FL XXX	X				
18.07.2016	A-a	Cogelsa	ULTRAGEAR EP 150			X		
13.07.2016	A-a	GMERl(Guangyan)	GMERl(Guangyan) CH Gear oil	X				

Date	Table	Brand name	Lubricant name	new approval	approval with restricted validity	approval is withdrawn	Brand name changed in	Lubricant name changed in
12.07.2016	A-g	Hicks Oils & Hicksgas	Venom® Wind Turbine Oil ISO	X				
17.06.2016	A-g	Gazpromneft	Reductor F Synth-	X				
10.06.2016	A-g	Lubrication Engineers	Powergrid™ Wind Syn	X				
10.06.2016	A-a	Petromin Corporation	Gear Lube EPF XXX	X				
02.06.2016	A-a	SINOPEC	Great Wall AP	X				
31.05.2016	A-c	BASF	Emgard Wind P XXX	X				
31.05.2016	A-g	Fuchs	RENOLIN PentoGear 320WT	X				
12.05.2016	A-g	Lukoil Lubricants	LUKOIL STEELO Premium	X				
04.04.2016	A-a	Chevron	Meropa XL 680, 1000	X				
16.03.2016	A-a	Total	CARTER EP XXX	X				
25.02.2016	A-a	Mosil Lubricants	Gearlube SP-eXXX	X				
25.02.2016	A-g	TSI Supercool	Aira 320	X				
22.02.2016	A-a	ENI	Blasia FMP XXX	X				
22.02.2016	A-a	Shell	Omala S2 GX XXX	X				
08.02.2016	A-g	Citgo Petroleum Corp.	Citgear WT 320	X				
20.01.2016	A-a	Shanghai Hitecrun	HITECSYN MMP XXX	X				
24.11.2015	A-c	Lukoil Lubricants	OMV Gear SHG XXX					Lukoil Steelo S XXX
10.11.2015	A-ef	Castrol performance	Tribol FoodProof 1800 / XXX					Optileb GT 1800 / XXX
11.09.2015	H	Castrol	BioTac MP	X				
11.09.2015	H	Castrol	Biogrease EP 2			X		
11.09.2015	H	Castrol	Obeen UF 3			X		
11.09.2015	H	Castrol	Obeen UF 2					Optileb GR UF 2
11.09.2015	H	Castrol	Longtime PD 2					Tribol GR 100-2 PD
11.09.2015	H	Castrol	Tribol 4020/220-2					Tribol GR 4020/220-2
03.08.2015	K	table K added						
23.07.2015	H	Mobil	Mobiltemp SHC100		X			
23.07.2015	H	Klüber	Petamo GHY 133 N		X			
21.07.2015	A-c	Fuchs	RENOLYN UNISYN XT XXX	X				
21.07.2015	A-c	SINOPEC	Great Wall 4408 HD XXX	X				
20.07.2015	A-a	HINDUSTAN PETROLEUM	PARTHAN EP XXX MA	X				
17.07.2015	A-b	Castrol performance	Optileb GT 1800 / XXX		X			
06.07.2015	A-a	OMV Refining & Marketing	OMV gear HAST XXX					OMV gear HST
16.06.2015	A-b, B-b	Castrol performance	Optigear Synthetic 1300 / XXX		X			
16.06.2015	A-ef	Castrol performance	Tribol FoodProof 1800 / XXX		X			
11.06.2015	A-a	Fuchs	RENOLIN HighGear XXX	X				
11.06.2015	A-b	PAKELO	No Tox Oil PG XXX	X				
11.06.2015	A-b	PAKELO	Allsint HS XXX	X				
30.04.2015	A-d	Fuchs	PLANTOGEAR 320 S		X			
22.04.2015	A-c	BASF	Emgard Wind P XXX	X				
09.03.2015	A-c	BASF	Emgard Gear Ultra XXX			X		
05.03.2015	A-a	Total	CARTER EP XXX			X		
05.03.2015	A-a	STATOIL	Loadway EP XXX	X				
05.03.2015	A-c	Qingdao Copton Techn.	COPTON SHC Gear Series XXX	X				
23.01.2015	A-a	BayWa AG	Tectrol Gear CLP Plus XXX	X				
20.01.2015	A-b, B-b	Q8 Kuwait Petroleum	Q8 Gade SF XXX	X				
20.01.2015	A-a	Q8 Kuwait Petroleum	Q8 Goya NT XXX			X		
19.01.2015	A-c	SINOPEC	Great Wall WT Gearbox Oil XXX	X				
19.01.2015	A-c	Bantleon	Avilub Gear SX XXX	X				
19.01.2015	A-c	Gulf Oil International	Gulf EP Lubricant SY XXX	X				
16.01.2015	A-a	SINOPEC	Great wall 4407 Heavy-Duty Industrial Gear Oil XXX	X				
09.01.2015	A-c	MOTOREX	GEAR SINTEC CLP 680	X				
09.01.2015	A-c	MOTOREX	GEAR SINTEC CLP 150			X		
08.01.2015	A-b	MOTOREX	MOTOREX GEARSYNT XXX	X				
19.12.2014	A-c	Shell	Shell Omala S4 GX XXX			X		
18.12.2014	B-b	Repsol	Super Tauro PAG XXX			X		
18.12.2014	A-b	BayWa AG	TECTROL GEAR CLP PG XXX	X				
17.12.2014	A-c	Lubritech Limited	GEP Synogear Super CKT XXX	X				
09.12.2014	A-b, B-b	Castrol performance	Tribol 1300 / xxx		X			
28.11.2014	A-a	Verkol	COMPOUND MP XXX			X		
28.11.2014	A-b	Lubrication Engineers	SYNPAG™ XXX			X		
28.11.2014	A-b, B-b	Chevron	Synlube WS XXX			X		

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28.11.2014	A-b	STATOIL	LoadWay PG XXX			X		
28.11.2014	A-b	LOTOS OIL	Transmil Synthetic Extra PG XXX			X		
28.11.2014	A-c	AVIA	AVIA Syntogear PE XXX	X				
27.11.2014	A-c	BayWa AG	TECTROL GEAR CLP SYN XXX	X				
21.11.2014	A-a	MOTOREX					GEAR COMPOUND PLUS XXX	GEAR COMPOUND PLUS ISO XXX
07.11.2014	A-c	Shanghai Hitecrun	HITECSYN SMP Plus XXX	X				
28.10.2014	A-b, B-b	Fuchs Lubritech	GEARMASTER PGP 100 GEARMASTER PGP 150			X		
28.10.2014	A-c	Fuchs Lubritech	GEARMASTER SYN 100 GEARMASTER SYN 150 GEARMASTER SYN 220 GEARMASTER SYN 1000			X		
27.10.2014	A-a	HINDUSTAN PETROLEUM	PARTHAN ML XXX	X				
27.10.2014	A-a	PANOLIN AG	GEAR CLP FL XXX	X				
21.10.2014	A-a	Bharat Petroleum Corp. Ltd.	MAK Amocam Plus XXX	X				
05.09.2014	A-d	Bremer & Leguil GmbH	RIVOLTA S.G.L. XXX			X		
29.09.2014	A-a	LOTOS OIL S.A.	TRANSMIL EXTRA XSP 150			X		
29.09.2014	A-c	PANOLIN AG	TECSYNTH FL 220	X				
05.09.2014	A-d	Fuchs	PLANTOGear XXX S			X		
05.09.2014	A-d	Fuchs Lubritech	Gearmaster ECO XXX			X		
06.08.2014	A-c	Engen Petroleum Ltd.	Gengear SPL A-XXX	X				
22.07.2014	A-a	Statoil	Loadway EP XXX			X		
22.07.2014	A-a	ENI	Agip Blasia FMP XXX			X		
14.07.2014	A-c	Lukoil Lubricants	OMV Gear SHG XXX	X				
11.07.2014	A-a	Cogelsa	ULTRAGEAR EP XXX	X				
23.06.2014	A-ef, B-e	Fuchs	CASSIDA FLUID WG XXX	X				
18.06.2014	A-ef, B-e	Setral Chemie GmbH	SYN-setral-GEAR/PGB...FD	X				
26.05.2014	A-c	PTT Public Company	PTT Drivera Synthetic S XXX	X				
26.05.2014	B-b	MOL-LUB Ltd	MOL Ultrans Synt WS XXX	X				
26.05.2014	A-b	MOL-LUB Ltd	MOL Ultrans Synt WS 150			X		
09.05.2014	A-c	ORLEN OIL	TRANSGEAR PE 1000			X		
06.05.2014	H	Klüber	CENTOPLEX GLP 402			X		
10.03.2014	A-b, B-b	Fuchs	RENOLIN PG 100 RENOLIN PG 150			X		
05.03.2014	A-c	Cogelsa	ULTRASYNTH EP xxx	X				
24.02.2014	A-c	LOTOS OIL S.A.	TRANSMIL SYNTHETIC xxx			X		
24.02.2014	A-c	AVIA	SYNTOGEAR PE XXX			X		
24.02.2014	A-c	AVIA	EVOGEAR SX xxx			X		
24.02.2014	A-a	Nyco S.A.	NYCOLUBE 83xx			X		
17.02.2014	A-a	Gulf Oil International	Gulf Gear WT xxx	X				
14.02.2014	B-e	Blaser Swisslube	Foodoil GGF xxx	X				
12.02.2014	A-a	Chevron	Meropa XL	X				
06.01.2014	A-a	Fuchs Lubritech	GEARMASTER CLP 100			X		
21.01.2014	A-c	Fuchs	RENOLYN UNISYN CLP 100 RENOLYN UNISYN CLP 150 RENOLYN UNISYN CLP 220			X		
13.01.2014	A-c	PETROGAL	GALP TRANSGEAR SY FA xxx	X				
10.01.2014	A-a	PETROGAL	GALP TRANSGEAR FA xxx	X				
02.01.2014	A-c	Bel-Ray	Synthetic Gear Oil 669x					Synthetic Gear Oil xxx
18.12.2013	B-e	Castrol performance	Tribol FoodProof 1800 / 460	X				
13.12.2013	A-c	Addinol	Eco Gear PAO 68 S	X				
13.12.2013	A-ef	Castrol performance	Tribol FoodProof 1800 / 460	X				
08.11.2013	A-c	Bel-Ray	Bel-Ray Synth. Gear Oil 66xx					Synthetic Gear Oil 669x
08.11.2013	A-c	Bel-Ray	Bel-Ray Synth. Gear Oil 6698			X		
08.11.2013	A-c	Bel-Ray	Bel-Ray Synth. Gear Oil 6688			X		
08.11.2013	A-c	SINOPEC	Great Wall Synth. AP-HD xxx					Great Wall AP-S xxx
08.11.2013	A-c	SINOPEC	Great Wall Synth. AP-HD 1000			X		
07.10.2013	A-c	Castrol classic	Alphasyn EP xxx	X				
16.08.2013	A-c	Phillips 66	SYNCON® WTL 320	X				
13.08.2013	A-c	Anderol	Anderol 5xxx Plus	X				
29.07.2013	A-c	SINOPEC	Great Wall SH5 xxx (FD) Synthetic			X		

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01.07.2013	A-a	OMV Refining & Marketing	OMV gear HAST xxx	X				
01.07.2013	B-e	BASF	Breox FGL xxx					Plurasafe GL FG xxx
28.06.2013	A-a	OMV Petrol Ofisi	Gravis MP xxx	X				
28.06.2013	A-c	OMV Petrol Ofisi	Gravis SP xxx	X				
27.06.2013	A-b	FRAGOL	Ucolub BSL-IG xxx			X		
27.06.2013	A-ef	FRAGOL	Ucolub BSL xxx			X		
27.06.2013	A-b	Gulf Oil International	Gulf Synthetic Gear Oil xxx			X		
25.06.2013	A-a	Cepsa	ENGRANAJES XMP xxx	X				
24.06.2013	A-a	Cepsa	AEROGear 320	X				
11.06.2013	A-c	HINDUSTAN PETROLEUM	PARTHAN SL XXX			X		
07.06.2013	A-a	Fuchs	RENOLIN CLP Plus xxx	X				
04.06.2013	A-c	AVIA	SYNTOGEAR PE 1000			X		
04.06.2013	A-c	Cepsa	AEROGear SYNT 680			X		
28.05.2013	A-c	Amsoil	Amsoil Power Transmission EP 680; Amsoil Power Transmission EP 1000			X		
28.05.2013	A-c	Amsoil	Amsoil Power Transmission EP xxx					Synthetic Power Transmission EP Gear Oil xxx
24.05.2013	A-c	Total	CARTER SH 150			X		
21.05.2013	A-b	Repsol	Super Tauro PAG xxx			X		
08.05.2013	A-a	Gazpromneft	Reduktor F xxx					Gazpromneft Reductor F xxx
30.04.2013	A-a	LOTOS OIL S.A.	TRANSMIL EXTRA XSP xxx	X				
29.04.2013	A-ef	BASF	Breox FGL xxx					Plurasafe GL FG xxx
26.04.2013	A-b, B-b	BASF	Breox SL xxx					Plurasafe GL Plus xxx
23.04.2013	H	Shell	Alvania EP / LF x			X		
19.03.2013	A-a	Indian Oil	Servomesh Gold xxx	X				
18.03.2013	A-a	Bantleon	Avilub Gear RSX-F xxx	X				
18.03.2013	A-a	TOTAL	CARTER XEP xxx	X				
15.03.2013	E-am	AVIA	GEAR RSX 150			X		
15.03.2013	E-am	Castrol classic	Alpha SP 150			X		
15.03.2013	E-am	Chevron	GEAR COMPOUND 150			X		
15.03.2013	E-am	Eni	Agip Blasia FMP 150			X		
15.03.2013	E-am	TOTAL	GIRAN L 150			X		
15.03.2013	E-am	TOTAL	EPONA Z 150			X		
15.03.2013	E-cm	Mobil	Mobil SHC 629	X				
15.03.2013	E-dm	Fuchs	PLANTOGear 150 S	X				
15.03.2013	E-dm	Fuchs Lubritech	GEARMASTER ECO 150	X				
14.02.2013	A-c	Chevron	Meropa Synthetic XL xxx			X		
18.01.2013	A-c	Indian Oil	Servosyngear AMP xxx			X		
18.01.2013	A-c	Verkol	CORVUS MP xxx			X		
18.01.2013	A-c	Zetalube	ZetaLube 230 ISO VG xxx			X		
18.01.2013	A-c	Whitemore	Decathion™ F 320			X		
18.01.2013	A-c	Shenyang Original	Original SHG Extratrans xxx			X		
18.01.2013	A-c	Bantleon	Avilub Gear PAO xxx			X		
18.01.2013	A-c	Petrofer	GEARLUBRIC HC xxx			X		
18.01.2013	A-c	Industrial Quimica Rio.	MatraX I-Gear Sintesis FDR xxx			X		
18.01.2013	A-c	SK Lubricants	SYNGEAR WT xxx			X		
18.01.2013	A-c	Omega	Omega 693			X		
18.01.2013	A-c	KRAFFT	KROIL SINTLUBE 320 MP			X		
09.01.2013	A-a	Pertamina	MASRI SUPER FLG xxx	X				
07.01.2013	A-a, E-am	Shell	Omala F xxx			X		
17.12.2012	Integration of the separate CLP oil tables for 'Marine gear units without multi-disk clutches' in the CLP oil tables for 'FLENDER Helical gear, bevel helical gear, planetary gear boxes and geared motors'							
17.12.2012	E-cm	Total	CARTER SH 150			X		
30.11.2012	A-a, E-ao	Fuchs	RENOLIN CLP 100			X		
30.11.2012	A-a, E-ao, E-am	Fuchs	Renolin CLP xxx Plus			X		
12.10.2012	A-a	Repsol	Super Tauro FND xxx			X		

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05.10.2012	A-b, B-b	Castrol	Alphasyn GS xxx			X		
05.10.2012	B-e	Castrol	Tribol FoodProof 1800 / xxx			X		
27.09.2012	A-c, E-co	Klüber	Klübersynth. GEM 4 - xxx N			X		
31.07.2012	A-a	Setral Chemie GmbH	Mi-setral-GEAR xxx	X				
31.07.2012	A-c	Setral Chemie GmbH	SYN-setral-GEAR xxx	X				
30.07.2012	A-a	Gazpromneft	Reduktor F	X				
05.07.2012	A-a	BP	Energol GR-XP	X				
19.06.2012	A-a	MOL-LUB Ltd.	MOL Ultrans EP	X				
04.06.2012	A-a	Castrol	Alpha SP 1000			X		
01.06.2012	A-a, B-a	Castrol performance	Optigear BM 100			X		
01.06.2012	A-a, B-a	Castrol performance	Optigear BM 680			X		
01.06.2012	A-a, B-a	Castrol performance	Optigear BM 1000			X		
19.03.2012	A-d, E-do	Shell	Naturelle Gear Fluid EP xxx			X		
14.03.2012	A-a	Klüber	Klüberoil GEM1-100 N			X		
14.03.2012	A-a	Klüber	Klüberoil GEM1-1000 N	X				
14.03.2012	B-a	Klüber	Klüberoil GEM1-xxx N			X		
14.03.2012	B-b	Klüber	SYNTHESO D xxx EP			X		
14.03.2012	A-b, B-b	Klüber	Klübersynth. GH 6 - 150			X		
13.03.2012	A-a	Addinol	ECO GEAR 100 M			X		
13.03.2012	A-c	Addinol	ECO GEAR 100 S			X		
13.03.2012	A-c	Addinol	ECO GEAR 150 S			X		
06.03.2012	A-d, E-do	Klüber	Klübersynth. GEM 2 - xxx			X		
07.02.2012	A-a	Engen Petroleum Ltd.	Engen Gengear XEP xxx	X				
24.01.2012	A-c	Anglomoil	Indsyn EP xxx			X		
24.01.2012	A-b, E-co	Q8 Kuwait Petroleum	Q8 El Greco xxx			X		
24.01.2012	table numbering changed (old black coloured, new red coloured) : A-1 → A-a; A-2 → A-b; A-3 → A-c; A-4 → A-d; A-5 → A-ef B-1 → B-a; B-2 → B-b; B-5 → B-e E-1 → E-ao; E-3 → E-co; E-4 → E-do; E-6 → E-g; E-7 → E-am; E-8 → E-cm; E-9 → E-dm							
23.01.2012	A-a	ORLEN OIL	TRANSOL PREMIUM xxx			X		
23.01.2012	A-b, B-b	Shell	Shell Omala S4 WE xxx			X		
23.01.2012	A-a	Cepsa	CEPSA AEROGear xxx			X		
05.12.2011	E-cm	Mobil	Mobil SHC 629			X		
05.12.2011	A-c	Petro Canada	Enduratex Synthetic					Enduratex Synthetic EP
30.11.2011	A-c	Verkol	Corvus MP xxx	X				
29.11.2011	A-c	KRAFFT S.L.U.	KROIL SINTLUBE 320 MP	X				
16.11.2011	A-c	MOTOREX	GEAR SYNTEC CLP 100			X		
16.11.2011			GEAR SYNTEC CLP 680			X		
16.11.2011			GEAR SYNTEC CLP 1000			X		
10.11.2011	A-a	Castrol	Alpha BMB xxx			X		
10.11.2011	A-c, E-co	Castrol	Alphasyn EP xxx			X		
10.11.2011	E-co, E-cm	Castrol	Alphasyn HG xxx			X		
10.11.2011	E-do, E-dm	Castrol	BioTrans HG xxx			X		
10.11.2011	A-c	Castrol	Optigear Synth A xxx			X		
10.11.2011	A-c, E-co	Castrol	Tribol 1710/xxx			X		
10.11.2011	B-b	Castrol	Tribol 800 / xxx			X		
10.11.2011	A-a, B-a, E-ao	Castrol	Tribol 1100/ xxx			X		
10.11.2011	A-ef	Castrol	Optileb GT xxx			X		
04.11.2011	A-b, B-b	BECHEM	BERUSYNTH EP xxx			X		
27.10.2011	A-a	LLC LLK International	LUKOIL STEELO 680			X		
27.10.2011	A-c	Omega Manufac.	Omega 693	X				
27.10.2011	A-c	SK Lubricants	SYNGEAR WT	X				
26.10.2011	A-c	Hermann Bantleon GmbH	Avilub Gear PAO 320	X				
26.10.2011	A-c	Ind. Quimica Riojana S.A.	MatraX I-Gear Sintesis FDR	X				
24.10.2011	E-do	Bremer & Leguil GmbH	RIVOLTA S.G.L.	X				
27.09.2011	A-b, B-b	Cognis	Breox SL xxx				BASF	

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27.09.2011	A-ef, B-e	Cognis	Breox FGL xxx				BASF	
27.09.2011	A-c	Cognis	Emgard Gear Ultra xxx				BASF	
13.09.2011	A-c	Galp Energia	Galp Transgear SMP xxx			X		
13.09.2011	A-a	OMV Refining & Marketing	OMV gear HAST xxx			X		
13.09.2011	A-c	Brugarolas	Beslux Gearsint XP xxx			X		
13.09.2011	A-b	Brugarolas	Beslux Sincart W xxx			X		
13.09.2011	A-c	Verkol	Corvus MP xxx			X		
13.09.2011	A-c	Statoil	MERETA xxx			X		
12.09.2011	A-a	Addinol	CLP xxx S			X		
12.09.2011	A-a	Addinol	Gear Oil xxx F	X				
12.09.2011	A-a	Total	KASSILLA GMP xxx			X		
12.09.2011	A-ef	Total	Nevastane SY xxx			X		
12.09.2011	A-a, E-ao, E-am	Chevron	Meropa WM xxx			X		
18.07.2011	A-a	Verkol	COMPOUND MP xxx	X				
01.07.2011	A-d, E-do	Shell	Shell Naturelle Gear Fluid EP xxx			X		
28.06.2011	A-c	Castrol performance	Optigear Synth X xxx			X		
27.05.2011	A-c	Chevron	Meropa Synthetic XL	X				
27.05.2011	A-b	AVIA	GEAR VSG xxx			X		
27.05.2011	A-c	Anderol	5xx0 XEP			X		
27.05.2011	B-a	SRS	Ersolan xxx			X		
27.05.2011	A-a	TUNAP	TUNGear xxx			X		
27.05.2011	A-a	Verkol	COMPOUND MP xxx			X		
27.05.2011	A-a	Veco	VECO MATRANOL XP xxx			X		
27.05.2011	A-c	FRAGOL	Ucolub N-PA xxx			X		
27.05.2011	A-a	LE	60x ALMASOL Vari-P G.L.			X		
24.05.2011	A-a, B-a, E-ao	Mobil	Mobilgear XMP xxx			X		
24.05.2011	D --> H	table 'D' changed in table 'H'						
24.05.2011	A-b	Castrol performance	Tribol 1300 / xxx				Fußnote hinzu	
04.04.2011	Ax, Bx, D --> H, Ex	obligation added						
24.03.2011	A-c	Meguin	Megol Gearoil Synth			X		
08.02.2011	A-a	Aral	Degol BMB xxx				Castrol Classic	Alpha BMB xxx
08.02.2011	A-b, B-b	Aral	Degol GS xxx				Castrol Classic	Alphasyn GS xxx
08.02.2011	E-co	Aral	Degol PAS xxx			X		
08.02.2011	E-do	Aral	Degol BAB xxx			X		
08.02.2011	D --> H	Aral	Aralub HL x			X		
08.02.2011	A-a, B-a, E- ao, E-am	BP	Energol GR-XP xxx			X		
08.02.2011	A-c, E-co	BP	Energol EG-XP xxx			X		
08.02.2011	E-do	BP	BIO GEAR xxx			X		
08.02.2011	E-g	BP	Energol HPDX 40			X		
08.02.2011	A-a	Castrol Classic	Alpha MAX xxx			X		
08.02.2011	A-b	Castrol performance	Tribol 800 / xxx			X		
08.02.2011	B-b	Castrol performance	Optiflex A xxx			X		
01.02.2011	A-c	Bantleon	Avilub Gear PAO xxx	X				
21.01.2011	A-a	Delta Oil	EP Industrial G xxx			X		
21.01.2011	A-a, B-a, E-ao, E-am	Aral	Degol BG xxx Plus			X		
21.01.2011	A-b, B-b	BP	Energol EG-XP xxx			X		
18.11.2010	A-b, B-b	Shell	Tivela S xxx					Omala S4 WE xxx
22.06.2010	A-c, E-co	Shell	Omala HD xxx					Omala S4 GX xxx

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