

RENOLIN Gear and circulating oils – an overview

RENOLIN DTA – demulsifying circulating, spindle and hydraulic oils

CL/HL oils (demulsifying)

Product name	Description	Density at 15°C [kg/m³]	FLP. Cleveland [°C]	Kin.Visc. at 40°C [mm²/s]	Kin.Visc. at 100°C [mm²/s]	VI Viscosity index	Pour-point [°C]	Main application area
RENOLIN DTA 2	Spindle, hydraulic and lubricating oils (machine oils) on the basis of selected base oils with additives to improve aging behavior and corrosion protection. All RENOLIN DTA products are DIN 51524-1 (HL) hydraulic oils and DIN 51517-2 (CL) circulating oils based on mineral oil, demulsifying (water-separating) and free of zinc. ISO 6743/4, HL, ISO 6743-6 and ISO 12925-1: CKB.	805	100	2.2	–	–	–27	For thermally-stressed bearings and hydraulic systems with peak temperatures of approx. 120°C. General lubrication without specific wear protection requirements (without AW/EP).
RENOLIN DTA 5		837	120	4.6	1.6	106	–40	
RENOLIN DTA 7		839	155	7.4	2.2	103	–27	
RENOLIN DTA 10		851	174	10	2.6	92	–27	
RENOLIN DTA 15		856	195	15	3.4	98	–27	
RENOLIN DTA 22		865	210	22	4.2	94	–27	(Refer to product information 4-1292* for further details)
RENOLIN DTA 32		874	222	32	5.4	102	–24	
RENOLIN DTA 46		874	228	46	6.8	101	–24	
RENOLIN DTA 68		882	250	68	8.7	99	–18	
RENOLIN DTA 100		881	248	100	11.2	97	–18	
RENOLIN DTA 150		889	266	150	15.5	94	–15	Mineral oil-based
RENOLIN DTA 220		893	280	220	18.8	95	–12	
RENOLIN DTA 320		898	280	320	24.0	95	–12	
RENOLIN DTA 460		904	315	460	30.4	95	–12	
RENOLIN DTA 680		913	302	680	37.9	92	–12	

RENOLIN CLP – demulsifying EP / AW gear and circulating oils

CLP oils (demulsifying)

Product name	Description	Density at 15°C [kg/m³]	FLP. Cleveland [°C]	Kin.Visc. at 40°C [mm²/s]	Kin.Visc. at 100°C [mm²/s]	VI Viscosity index	Pour-point [°C]	Main application area
RENOLIN CLP 68	High-performance gear and circulating oils with good aging stability and additives to improve corrosion protection (also combat steel and non-ferrous metal corrosion caused by moisture). Outstanding anti-wear characteristics – good EP/AW performance, excellent scuffing load carrying capacity and protection against micropitting, excellent FE8 roller bearing wear protection, good demulsifying properties, very good foaming behavior, zinc-free and silicone oil-free. RENOLIN CLP oils fulfill and exceed the minimum requirements of CLP lubricating oils according to DIN 51517, Part 3 (2004), ISO 6743-6 and ISO 12925-1: CKC, CKD. US Steel 224, David Brown S1.53.10. Approved by leading gearbox manufacturers.	866	236	68	8.7	99	–24	Universal gear oils for industrial applications such as in bearings, joints, spur, bevel and worm gears and whenever the manufacturer recommends an oil of this type.
RENOLIN CLP 100		890	240	100	11.2	98	–21	
RENOLIN CLP 150		894	250	150	14.5	96	–24	
RENOLIN CLP 220		896	260	220	18.9	96	–24	
RENOLIN CLP 320		900	255	320	24.0	95	–12	
RENOLIN CLP 460		901	270	460	30.4	95	–12	(Refer to product information 4-1208* for further details)
RENOLIN CLP 680		918	270	680	36.8	88	–10	
								Mineral oil-based

* PI = Product-information

EP = Extreme pressure additives, to avoid wear and scuffing at high pressures and loads

AW = Anti-wear additives, to avoid wear in mixed friction areas