

RENOLIN B PLUS

High Quality AW Hydraulic and Lubricating Oils

Description

The **RENOLIN B PLUS** series is based on selected mineral base oils. High quality additives improve the ageing and oxidation stability. They also guarantee excellent corrosion protection properties (steel and iron materials). Synergistically acting copper deactivators protect copper / yellow metal materials.

Zinc-dialkyldithiophosphates protect hydraulic pumps, motors, components and machine elements from wear (at low and high temperatures and at high loads).

The **RENOLIN B PLUS** series are highly refined based hydraulic fluids according to DIN 51 524-2 (Demulsifying, zinc containing) and lubricating oils according to DIN 51 517.

Application

Universally applicable demulsifying hydraulic fluids and lubricating oils. They can be used in all types of mobile and stationary hydraulic units where the use of a demulsifying hydraulic oil (type HLP) is recommended.

Synergistically acting additives guarantee a long life-time and the highest hydraulic performance. Even at high temperatures and high loads the base oils together with the additives ensure that the system will be operated reliably during a long lifetime.

The Renolin B Plus series fulfils the high requirements of Denison HF-0 specification (hybrid pump test, combination of a vane and piston pump - T6H20C combination).

The Renolin B Plus series oils offer an excellent thermal stability (Cincinnati-Milacron B – Pass). The formation of hydrolysis products - when water enters the hydraulic system - will be avoided. The Renolin B Plus series shows an excellent filtration behaviour is excellent (Low pressure, good flow ability).

Benefits

- Excellent demulsibility
- Very good corrosion protection to steel
- Good corrosion protection to copper
- High ageing stability / high oxidation stability
- Good AW wears protection
- Very good hydrolytic stability
- Excellent filtration behaviour (dry, wet)
- Low foaming
- Excellent air release

Specifications

The **RENOLIN B PLUS** series fulfilled and surpassed the requirements according to:

- DIN 51 524-2: HLP
- ISO 6743-4: HM
- Denison HF 1, HF 2, HF 0
- Vickers I 286-S, M 2950-S
- Cincinnati Machine P68, P69, P70
- US Steel 127, 136
- AFNOR NFE 48690 (dry) and NFE 48691 (wet)

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Characteristics

Properties	Unit	Value							Test Method
		B 3 VG 10	B 5 VG 22	B 10 VG 32	B 15 VG 46	B 20 VG 68	B 30 VG 100	B 40 VG 150	
		PLUS	PLUS	PLUS	PLUS	PLUS	PLUS	PLUS	
ISO VG		10	22	32	46	68	100	150	DIN 51519
Colour ASTM		<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<2.0	ASTM D1500
Specific Gravity at 60/60 °F		0.831	0.859	0.860	0.867	0.876	0.881	0.887	ASTM D1298
Flash Point COC	°C	>150	>180	>180	>200	>200	>200	>210	ASTM D 92
Viscosity at 40°C	cSt	10.5	21.8	32.0	46.0	68.8	101.4	148.5	ASTM D 445
Pour Point	°C	<-10	<-10	<-10	<-10	<-10	<-10	<-10	ASTM D 97
TAN	mgKOH /g	----- 0.6 -----							ASTM D 664
Foaming Seq.1	ml	10/0	10/0	10/0	10/0	10/0	10/0	10/0	ASTM D 892
Viscosity Index	°C	100	100	112	108	101	96	95	ASTM D 2270

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