

RENOLIN ZAF 15 LT RENOLIN ZAF 32 LT

Zinc- and ash-free hydraulic fluids with extremely high viscosity index (HVI, low temperature hydraulic and lubrication oil)

Description

RENOLIN ZAF 15 LT and RENOLIN ZAF 32 LT are newly developed zinc- and ash-free low temperature hydraulic and lubrication oils. Both products have an extremely high viscosity index. RENOLIN ZAF 15 LT and RENOLIN ZAF 33 LT contain additives which enlarge the lifetime and improve the ageing stability. Machine components, hydraulic systems are protected against corrosion (steel, copper and non-steel components) through the use of RENOLIN ZAF 15 LT and RENOLIN ZAF 32 LT. The products are demulsifying (water separating) low temperature hydraulic fluids. They fulfill and surpass the requirements according to DIN 51524-3, HVLP.

RENOLIN ZAF 15 LT and RENOLIN ZAF 32 LT have an extremely high viscosity index which is guaranteed by the selected base oils in combination with high performance additives. These products have extremely good low temperature properties and provide excellent low temperature flowability at very low temperatures. RENOLIN ZAF 15 LT and RENOLIN ZAF 32 LT have an extremely low pourpoint for the use at very low temperatures. Synergistically acting antiwear additives protect the system and components from wear.

Application

RENOLIN ZAF 15 LT and RENOLIN ZAF 32 LT are demulsifying, water separating low temperature hydraulic and lubrication oils for the general use in circulating systems, in bearings and in hydraulic systems. The products are especially recommended for all kind of application in mobile and stationary hydraulic equipments where the use of a low temperature HVLP hydraulic oil is required. The products guarantee a wide application window and surpass the requirements according to DIN 51524-3 of a multigrade hydraulic fluid.

Advantages

- Low foaming
- Good air release properties
- High ageing stability
- Good corrosion protection, steel and copper
- Excellent wear protection
- Very good viscosity temperature behaviour, very high viscosity index
- Excellent low temperature properties, PP < -60 °C
- Wide temperature range
- New zinc- and ash-free additive technology

Specifications

RENOLIN ZAF 15 LT and RENOLIN ZAF 32 LT fulfill and surpass the following requirements:

- DIN 51524-3: HVLP
- ISO 6743-4: HV

Exclusively produced for
LUKOIL MARINE LUBRICANTS

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Typical technical data:

Product name		RENOLIN ZAF 15 LT	RENOLIN ZAF 32 LT	
Properties	Unit			Test method
Kinematic viscosity				DIN EN ISO 3104
at - 54 °C	mm ² /s	2380	-	
at - 40 °C	mm ² /s	460	4850	
at - 20 °C	mm ² /s	86.6	625	
at - 10 °C	mm ² /s	54.8	190	
at 0 °C	mm ² /s	39.3	125	
at 40 °C	mm ² /s	14.0	31	
at 100 °C	mm ² /s	5.30	8.7	
Viscosity index	-	387	281	DIN ISO 2909
Density at 15 °C	kg/m ³	873	869	DIN 51757
Flash point	°C	> 90	155	DIN ISO 2592
Pourpoint	°C	< -60	< -60	DIN ISO 3016
Neutralisation number	mgKOH/g	0.2	0.2	DIN 51558-1
Air release at 50 °C	min	2	3	DIN ISO 9120
A/8.3/90 FZG gear test rig	failure load stage	> 10	> 10	DIN ISO 14635-1

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We therefore recommend that you consult a FUCHS SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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