

Product	SINOPEC AE 5000 Multigrade Long Life Hydraulic Oil
Summary	<p>Product description</p> <p>SINOPEC AE 5000 Multigrade Long Life Hydraulic Oil is a line of premium quality anti-wear lubricants formulated with highly refined mineral oils, combined with high-quality multifunctional additives and available in viscosity range from ISO Grade 32 to 68. This line of hydraulic oils, with high viscosity index, low pour point and significantly extended oil service life, has been designed to meet the requirements of moderate-to-high pressure hydraulic systems and that of major hydraulic pump manufacturers, and its applications include wide variety of industrial, marine and mobile equipment requiring extended oil change interval, especially in cold regions or where significant ambient temperature variations or very harsh working conditions are encountered.</p>

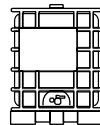
Available sizes



PAIL – 18L



DRUM – 200L



IBC – 1000L

Also
available in
bulk

Applications

SINOPEC AE 5000 Long Life Hydraulic Oil is suitable for use in:

- Hydraulic applications in a wide variety of industrial, marine and mobile equipment.
- Vane and gear pumps under high loads, as recommended by pump manufacturers.
- Severe service hydraulic systems, employing axial and radial piston pumps, as recommended by pump manufacturers.
- Moderate-to-high pressure hydraulic systems operating outdoors in cold regions or where there is a wide variation in ambient temperature or harsh working conditions, such as hydraulic systems of construction, mining, oil industries, marine, machine tools and various stationary hydraulic equipment.

Features and benefits

- Advanced technology hydraulic oil formulated with highly refined hydrotreated base oils and multifunctional additives, performance comprehensively surpasses that of ISO 11158 HV hydraulic oil.
- Exceptional anti-oxidation and thermal stability performance reduces sludge formation, providing better reliability and cleanliness of hydraulic systems, and ensures significantly extended oil service life.
- Excellent low and high temperature performance and shear stability, ensures good low-temperature fluidity and pumpability, providing fast start-up in cold working environments as well as maintaining excellent lubrication performance at high temperatures.
- Superior and long-lasting anti-wear properties under high load operation, together with excellent low temperature performance, water separation, air release and anti-foam characteristics ensures robust protection and efficient operation of the hydraulic system.
- Excellent comprehensive performance, providing all-round anti-corrosion and lubrication protection for the hydraulic system.
- Fully compatible with common seal materials usually found in hydraulic systems, to extend seal life and prevent fluid leakage.
- High cleanliness property (NAS 7 or better at the point of filling) minimizes the impact of solid contaminants on filter blocking, extends both filter and equipment service life.

Typical data

SINOPEC AE 5000 Multigrade Long Life Hydraulic Oil				
Viscosity Grade	32	46	68	Test Method
Kinematic Viscosity cSt @ 40°C	33.75	46.5	67.08	ASTM D445
cSt @ 100°C	6.7	8.2	10.8	
Viscosity Index	160	151	152	ASTM D2270
Air Release Time @ 50°C, mins	5	5	6	ASTM D3427
Foaming (Tendency/Stability), mL/mL				ASTM D892
Seq.I	0/0	0/0	15/0	
Seq.II	15/0	10/0	20/0	
Seq.III	0/0	0/0	20/0	
Acid Number, mgKOH/g	0.75	0.74	0.76	ASTM D664
Anti-Rust, Procedure B	Rust-Free	Rust-Free	Rust-Free	ASTM D665
Copper Corrosion @ 100°C for 3hrs	1a	1a	1a	ASTM D130
Water Separability (40-37-3, 54°C), mins	8	10	15	ASTM D1401
Pour Point, °C	-45	-42	-39	ASTM D97
Flash Point (COC), °C	225	240	242	ASTM D92
FZG Test (A/8.3/90), Fail Load Stage	12	12	12	ASTM D5182

These data are given as an indication of typical values, not as exact specifications.

Industry and OEM specifications

SINOPEC AE 5000 Multigrade Long Life Hydraulic Oil meets the performance requirements of the following industry specifications:	
ISO	11158 (L-HV)
DIN	51524 Part 3 (HVLP)
GB	11118.1 (L-HV)
JCMAS	HK (VG 32, VG 46)

SINOPEC AE 5000 Multigrade Long Life Hydraulic Oil meets the performance requirements of the following OEM specifications:	
Danfoss Vickers (Previously Eaton)	brochure 03-401-2010 (VG 32, VG 46, VG 68)
Parker-Denison	HF-0 (VG 32, VG 46, VG 68)
Bosch Rexroth	RDE 90235 (VG 32, VG 46, VG 68)
Cincinnati	P-68 (VG 32), P-69 (VG 68), P-70 (VG 46)

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Safety Data Sheet (SDS) is followed. Please consult the SDS for more detailed advice on handling; SDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

The SINOPEC trademark is registered and protected.

Issued: July 2025

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