Avalon HLP Super Clean

Super Clean Heavy Duty Hydraulic Oil
Previous name: Avalon HLP SC6

PRODUCT DATA SHEET

Product Description:

Veedol Avalon HLP Super Clean is a range of premium quality, heavy duty hydraulic oils specially developed to meet the requirements of the most demanding modern hydraulic systems found in industrial and mobile equipment.

Blended with severely hydro-processed base oils and advanced additive system, they provide enhanced protection to hydraulic components compared to conventional hydraulic oil.

Veedol Avalon HLP Super Clean hydraulic oils are filtered to NAS 6 cleanliness level for improved system performance and component life.

Performance Specifications:

Veedol Avalon HLP Super Clean hydraulic oils meet & exceed the performance requirements of

- DIN 51524-2, HLP
- Parker HF-0, HF-1, HF-2
- Bosch Rexroth RD 90220
- Eaton E-FDGN-TB002-E specification, Eaton M-2950-S & I-286-S3
- Fives Cincinnati P-68, P-70, P-69
- IS: 11656-1986 (Reaffirmed 1991), IS: 10522-1983 (Reaffirmed 2004)
- ASTM D 6158

Features/Benefits:

- **Enhanced anti-wear and corrosion protection** help extend component life and improve equipment output.
- **Excellent oxidation stability** helps in maintaining system cleanliness and deposit reduction, enable long oil and filter life thus reduce downtime and operating costs.
- **Outstanding filterability, faster air release and water separation** contribute to enhance and maintain efficiency of hydraulic system.
- **NAS 6 cleanliness level** ensures smooth operation of hydraulic systems employing close clearance servo valves and improves system reliability.

Application:

- High pressure hydraulic systems requiring super clean oils in various manufacturing industries.
- Construction and mining equipment where HLP type hydraulic oils are recommended.
- Hydraulic applications requiring extended oil drain interval.
- Recommended for hydraulic systems subjected to high pressure and load.

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Typical Properties:

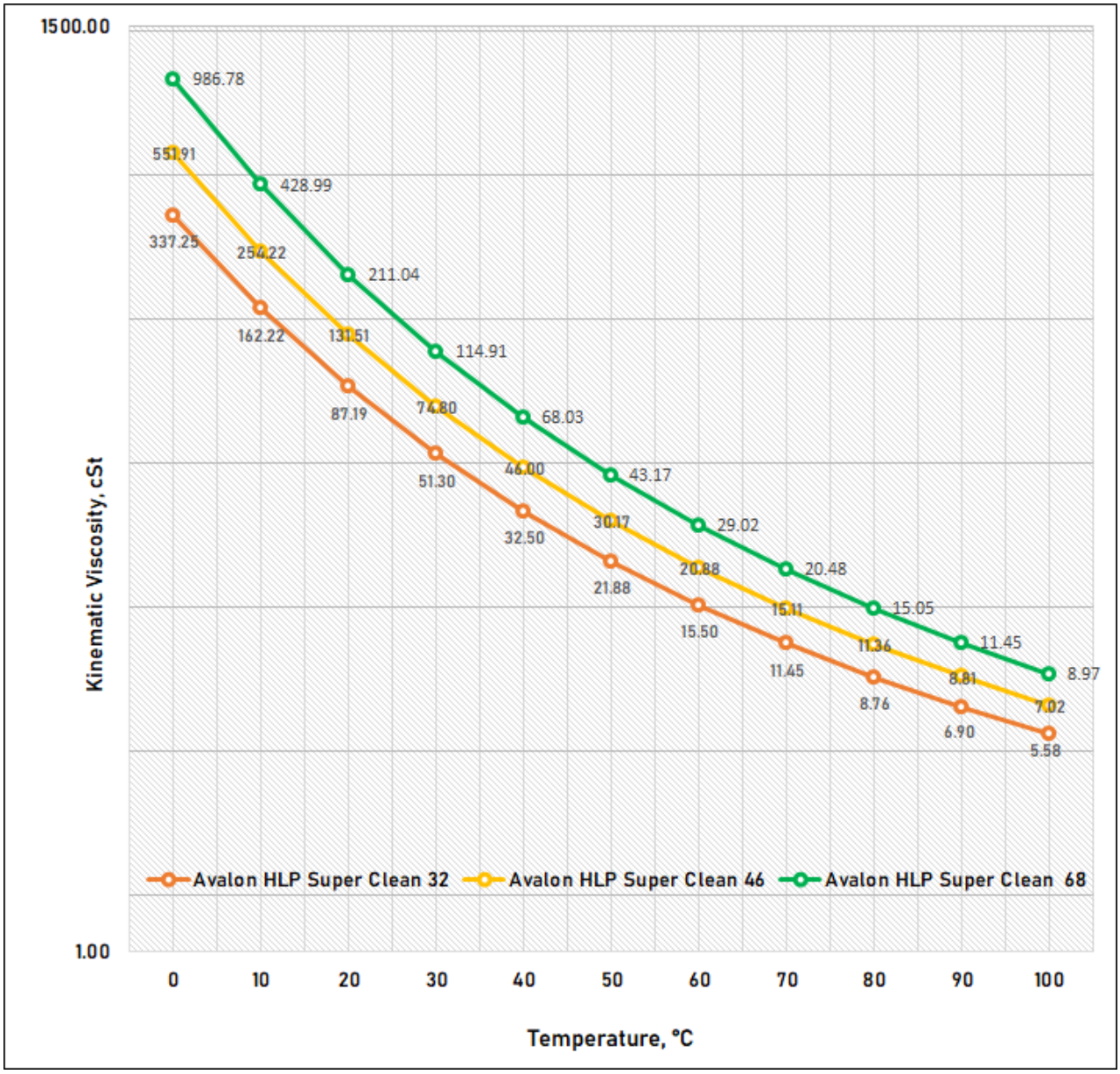
Parameter	Test Method	32	46	68
Density@29.5 ºC	ASTM D4052	0.843	0.845	0.850
Kinematic Viscosity @40ºC, cSt	ASTM D445	32.5	46.0	68.03
Kinematic Viscosity @100ºC, cSt	ASTM D445	5.58	7.02	8.97
Viscosity Index	ASTM D2270	109	110	105
Flash Point (COC), ºC	ASTM D92	220	232	236
Pour Point, ºC	ASTM D97	-24	-24	-27
Copper Corrosion at 100 ºC, 3 hours	ASTM D130	1a	1a	1a
Foaming Tendency/ Stability Sequence I, mL/mL Sequence II, mL/mL Sequence III, mL/mL	ASTM D892	 0/0 10/0 0/0	 0/0 10/0 0/0	 0/0 10/0 0/0
Air release at 50ºC, minutes	ASTM D3427	2'18"	3'51"	5'42"
Rust Test	ASTM D665	Pass	Pass	Pass
TOST Life, hours	ASTM D943	>4500	>4500	>4600
FZG Fail load stage (A/8.3/90)	DIN 51354-2	11	11	12
Cleanliness level (at filling nozzle)	NAS 1638	Class 6	Class 6	Class 6

The above typical properties are those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

STORAGE:
All packages should be stored under cover. It should not be exposed to direct sunlight, intense cold and extreme temperature fluctuations. Where outside storage is unavoidable, drums should be laid horizontally or properly covered to avoid the possible ingress of water and damage to drum markings.

HEALTH AND SAFETY:
The information on this product is available in the Material Safety Data Sheet (MSDS) as a guide to the precautions and safe handling of this product and its disposal. For further information, we recommend you review the MSDS. If handled correctly, there are no special precautions suggested.

Viscosity – Temperature Diagram for Avalon HLP Super Clean



The Viscosity-Temperature Diagram for Avalon HLP Super Clean is based on the typical characteristics as mentioned above and may vary depending on the batch results having variations that do not affect the product performance.