

NS HYDRAULIC HVI

ISO VG 15/32/46/68/100 - High Viscosity Index Hydraulic Oil - DIN 51524-3 HVLP

SKU: xxxxxx

PRODUCT OVERVIEW

NS Hydraulic HVI is a high viscosity index anti-wear hydraulic oil series for systems that must operate across a wide temperature range. Shear-stable viscosity index improvers and highly refined base oils hold viscosity steady from cold start to full-load running, so pumps prime quickly in winter and retain film thickness at high oil temperatures. A stabilized zinc anti-wear system with rust, oxidation and foam inhibitors protects vane, gear and axial piston pumps in high-pressure service.

APPLICATIONS

Recommended for high-pressure hydraulic systems exposed to wide ambient or operating temperature swings: mobile and construction equipment, deck machinery and marine hydraulics, outdoor plant, injection moulding and precision machine tools. Also suitable for hydrostatic transmissions, servo and proportional valve circuits and circulating systems specifying an ISO HV fluid. Also meets ASTM D6158 HV, Eaton E-FDGN-TB002-E, Bosch Rexroth RDE 90245 and Fives Cincinnati P-68 / P-70 / P-69.

SPECIFICATIONS Meets or exceeds: **DIN 51524-3 HVLP | ISO 11158 HV | Denison HF-0/HF-2**

CHARACTERISTICS*

PROPERTY	TEST METHOD	15	32	46	68	100
Density at 15°C, g/cm ³	ASTM D4052	0.860	0.862	0.869	0.873	0.878
Kinematic Viscosity @ 40°C, cSt	ASTM D445	15	32	46	68	100
Kinematic Viscosity @ 100°C, cSt	ASTM D445	3.9	6.3	8.2	11.0	14.4
Viscosity Index	ASTM D2270	162	151	152	151	148
Flash Point (COC), °C	ASTM D92	170	215	220	225	235
Pour Point, °C	ASTM D97	-42	-39	-39	-36	-33

*The specifications above are for illustrative purposes and communicated for information only.

PROPERTIES & BENEFITS

Wide Temperature Range

A viscosity index around 150 keeps viscosity within pump limits from cold start to peak operating temperature.

Shear Stability

Shear-stable VI improvers resist permanent viscosity loss, holding grade through the service interval.

Anti-Wear Protection

Stabilized zinc chemistry protects vane, gear and axial piston pumps under high-pressure, high-load duty.

Air Release Performance

Fast air release and foam control prevent cavitation and spongy response in fast-cycling circuits.

Oxidation Stability

High oxidation resistance limits sludge and varnish, keeping servo and proportional valves free.

Water Separation

Good demulsibility sheds water quickly, protecting against rust and preserving additive performance.