

PN Tenia S5 VS Hydraulic Oil

Product reference: GYYY-06

Hydraulic lubricant offered in viscosity grades 32 and 46.

PN Tenia S5 VS Hydraulic Oil

Product name

PN Tenia S5 VS Hydraulic Oil

Viscosity grade

32, 46

Standard and specification references

DIN 51524 Part 3 HVLP

AFNOR NFE 48-603 (HV)

ISO 11158 HV

Denison HF-0, HF-1, HF-2

Eaton (Vickers) M-2950-S, I-286-S

FIVES CINCINATI (Former MAG IAS, LLC)

Hitachi

GB 11118.1-2011 L-HS

Product overview

PetroNexus Tenia S5 VS is a series of antiwear hydraulic oils with an exceptionally high viscosity index, developed for forestry machinery and equipment operating in extreme climates such as Arctic regions. It is formulated from synthetic base oils, highly shear-stable polymers and an advanced additive system to meet the stringent requirements of modern hydraulic systems using high-pressure, high-output pumps.

Performance

1. An exceptionally high viscosity index protects equipment at cold-start temperatures and protects system components at higher operating temperatures.
2. Outstanding thermal and oxidation stability reduces deposit formation, improves pump and valve performance, and extends lubricant and filter replacement intervals.
3. Excellent antiwear performance extends pump service life and reduces maintenance costs.
4. Outstanding shear stability minimizes viscosity loss over time under high-shear conditions.
5. Good demulsibility helps water separate more quickly from the oil and prevents emulsion formation.
6. Special rust and corrosion inhibitors protect a range of metal components against corrosion.
7. Excellent filterability under both wet and dry conditions.
8. Compatible with a wide range of metals and sealing materials commonly used in hydraulic systems.

Applications

- Hydraulic and power-transmission systems in forestry machinery and equipment operating in extreme climates, including Arctic regions.

- Critical hydraulic systems, including high-precision CNC machine tools and machine tools using close-clearance servo valves.
- Other hydraulic systems requiring high-performance hydraulic oils.

Packaging

170 kg drums; 1-tonne IBC containers.

Unsuitable applications

- Food-grade hydraulic systems. Do not use as a substitute for other lubricant types, including insulating oils, quenching oils or rolling oils.

For grade selection, technical requirements, packaging and commercial terms, contact sales@petronexusgroup.com.

Product visual and technical data

PETRONEXUS TENAIYA S5 VS SERIES

ULTRA-HIGH-VI ANTI-WEAR HYDRAULIC OIL

Reliable Hydraulic Performance
in Extreme Climates




 EXTREME
TEMPERATURE
PERFORMANCE
  RELIABLE
PROTECTION
  LONG
SERVICE LIFE

POWERING A MORE PRODUCTIVE TOMORROW

PRODUCT OVERVIEW

Tenaiya S5 VS Series

Ultra-High-VI Anti-Wear Hydraulic Oil

**Premium Hydraulic Oil for
Extreme Climate Applications**

PETRONEXUS Tenaiya S5 VS Series is an ultra-high-viscosity-index anti-wear hydraulic oil designed for severe cold and wide-temperature service. It provides reliable hydraulic performance across a broad temperature range, delivering stable operation and effective protection in demanding environments.



TRUSTED LUBRICANTS
FOR A STRONGER TOMORROW

KEY PERFORMANCE BENEFITS

- Ultra-High Viscosity Index
- Excellent Thermal and Oxidation Stability
- Superior Anti-Wear Protection
- Outstanding Shear Stability
- Good Demulsibility and Water Separation Performance
- Advanced Rust and Corrosion Protection for Metal Components
- Exceptional Filterability
- Good Compatibility with Common Hydraulic System Metals and Most Sealing Materials

**DRIVEN
BY PERFORMANCE**

EXTREME CLIMATE PERFORMANCE

STABLE HYDRAULIC OPERATION IN THE HARSHTEST ENVIRONMENTS



 RELIABLE
PERFORMANCE
IN EXTREME COLD
  WIDE
TEMPERATURE
RANGE
  BUILT FOR
DEMANDING
CONDITIONS

ANTI-WEAR PROTECTION

KEEP YOUR EQUIPMENT RUNNING LONGER



- Reduces wear in critical hydraulic components
- Maintains stable lubrication under severe conditions
- Helps ensure reliable and efficient operation
- Supports long equipment service life

RELIABLE AND STABLE OPERATION

SHEAR STABILITY. OXIDATION STABILITY. DEPENDABLE PERFORMANCE.



- Maintains viscosity stability under high loads
- Resists thermal and oxidation degradation
- Supports clean system operation
- Helps ensure long-term reliability

TYPICAL APPLICATIONS



Forestry equipment operating in extreme climates, including Arctic environments



Critical and precision hydraulic systems, including CNC machine tools and tight-clearance servo-valve systems



Other high-performance hydraulic applications requiring demanding lubrication performance

AVAILABLE PACKAGING

170 kg Drums / IBC Containers



 FLEXIBLE SUPPLY
  GLOBAL DELIVERY
  SUPPORT YOUR BUSINESS

TYPICAL DATA

ISO Viscosity Grade		32	46
Test Item	Test Method	Typical Data	
Kinematic Viscosity @40°C, cSt	ASTM D445	33.2	44.7
Viscosity Index	ASTM D2270	300	300
Flash Point, °C	ASTM D92	198	210
Pour Point, °C	ASTM D97	-60	-55
Density @20°C, I	ASTM D1298	0.812	0.821
Copper Strip Corrosion, 3 h @ 100°C	ASTM D130	Pass	
FZG Failure Load Stage, not less than	DIN 51354 Part II	11	11

The above data are typical values of the current product. Data from future production batches may vary within the allowable range of quality standards. For more information, please contact your sales representative.