

PetroNexus Tenia S1X Hydraulic Oil

Product reference: GYYY-02

Hydraulic lubricant offered in viscosity grades 32, 46, 68 and 100.

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Product name

PetroNexus Tenia S1X Hydraulic Oil

Viscosity / grade

32, 46, 68, 100

Standard references

DIN 51524 Part 2-HLP

AFNOR NFE 48-603 (HM), ISO 11158-HM

Eaton (Vickers) M-2950-S, M-2952-S, I-286-S

Bosch Rexroth 07 075 for vane, piston and gear pumps; Sauer Danfoss 520L0463, BR 90220

FIVES CINCINNATI (Former MAG IAS, LLC)

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

GB 11118.1-2011 L-HM

Product overview

PetroNexus Tenia S1X is a high-performance antiwear hydraulic oil series developed for the demanding requirements of modern industrial and mobile hydraulic systems. Deeply hydrotreated base oils and a carefully selected additive system meet the performance requirements of hydraulic equipment operating at high temperatures and pressures and help extend oil-drain intervals. Excellent thermal and oxidation stability, antiwear properties, rust and corrosion protection, water separation and air release extend both equipment and lubricant service life. The series is available in viscosity grades from ISO 10 to ISO 100.

Performance features

1. Excellent thermal and oxidation stability reduces deposit formation, improves pump and valve performance, and can extend oil and filter replacement intervals.
2. Excellent antiwear performance reduces the frequency of failures, extends hydraulic-pump life and lowers maintenance costs.
3. Outstanding demulsibility separates oil and water more quickly and resists emulsion formation.
4. A dedicated rust and corrosion inhibitor system protects a range of metallurgical components even in wet conditions.
5. Rapid air release minimizes the risk of pump corrosion and prevents component damage; in modern systems with small reservoirs, it helps reduce vibration and maintain efficiency.
6. Lasting hydrolytic stability provides excellent protection for yellow-metal components even in the presence of water.
7. Compatible with a wide range of metals and sealing materials commonly used in hydraulic systems.

Applications

- Mobile and stationary hydraulic systems operating under moderate to severe conditions.
- Older hydraulic systems with leakage issues that require comprehensive protection from an economical hydraulic oil.
- Mobile hydraulic power-transmission systems and general machinery lubrication systems.

Packaging

170 kg drums; IBC containers

Unsuitable applications

- Not suitable for specialized ultra-high-pressure hydraulic systems or food-grade applications. Do not use as transformer oil, quenching oil or rolling oil.

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

Product visual and technical data



PETRONEXUS

TENAIYA S1X SERIES

HIGH-PERFORMANCE ANTI-WEAR HYDRAULIC OIL

RELIABLE HYDRAULIC PROTECTION FOR A STRONGER TOMORROW

LUBRICATES PROTECTS PERFORMS

POWERING INDUSTRY WORLDWIDE

PETRONEXUS

TRUSTED LUBRICATION
HIGHER PRODUCTIVITY
A CLEANER TOMORROW

TENAIYA S1X SERIES

HIGH-PERFORMANCE ANTI-WEAR HYDRAULIC OIL

VISCOSITY GRADES

32 / 46 / 68 / 100

Tenaiya S1X Series is a range of high-performance anti-wear hydraulic oils developed for modern industrial and mobile hydraulic systems under severe conditions. Formulated with severely hydrotreated base oils and selected additive packages, it provides reliable lubrication and protection under high-temperature and high-pressure conditions.

PROVEN PERFORMANCE IN EVERY APPLICATION

KEY PERFORMANCE BENEFITS

- Excellent Thermal and Oxidation Stability**
Resists oxidation and maintains performance under high temperatures.
- Superior Anti-Wear Protection**
Helps extend equipment life and reduce maintenance costs.
- Outstanding Demulsibility and Water Separation Performance**
Quickly separates from water for reliable system operation.
- Advanced Rust and Corrosion Inhibitor Technology**
Protects metal surfaces and keeps systems clean.
- Rapid Air Release Properties**
Minimizes air entrainment for smooth and efficient system performance.

EXCELLENT THERMAL AND OXIDATION STABILITY

STABLE PERFORMANCE IN TOUGH CONDITIONS

Formulated with high-quality base oils and advanced additives to resist oxidation, maintain viscosity and control sludge deposits, ensuring long oil life even under high-temperature operation.

**HIGHER UPTIME
LOWER OPERATING COSTS**

SUPERIOR ANTI-WEAR PROTECTION

KEEPS YOUR SYSTEM RUNNING LONGER

Effective anti-wear additives form a durable protective film on metal surfaces, reducing wear and helping to extend the service life of pumps, valves and other critical components.

PROTECTION THAT DELIVERS

OUTSTANDING DEMULSIBILITY AND WATER SEPARATION PERFORMANCE

KEEPS OIL CLEAN AND SYSTEMS RELIABLE

Separates water quickly and effectively, minimizing the risk of emulsification. Helps maintain oil film strength and protects system components from water-related damage.

**CLEANER SYSTEMS
LONGER SERVICE LIFE**

TYPICAL APPLICATIONS

DESIGNED FOR A WIDE RANGE OF INDUSTRIAL AND MOBILE EQUIPMENT

- High-pressure and heavy-load hydraulic systems.
- Equipment requiring extended oil drain intervals (subject to manufacturer recommendations and operating conditions).
- Industrial and mobile hydraulic equipment using gear pumps, vane pumps, and piston pumps.

FROM INDUSTRY TO INFRASTRUCTURE | PETRONEXUS KEEPS THINGS MOVING

AVAILABLE PACKAGING

FLEXIBLE SUPPLY FOR YOUR BUSINESS NEEDS

170 kg Drums

IBC Containers

**GLOBAL SUPPLY
RELIABLE DELIVERY**

**YOUR PARTNER
IN PROGRESS**

TYPICAL DATA

QUALITY YOU CAN TRUST
DATA THAT DELIVERS

ISO Viscosity Grade		32	46	68	100
Test Item	Test Method	Typical Data			
Kinematic Viscosity @40°C, cSt	ASTM D445	32.1	46.1	68.2	98.7
Viscosity Index	ASTM D2270	109	109	105	99
Density @20°C, kg/l	ASTM D1298	0.853	0.860	0.865	0.861
Flash Point, °C	ASTM D92	222	232	238	238
Pour Point, °C	ASTM D97	-30	-30	-24	-15
FZG Failure Load Stage, not less than	DIN 51354 Part II	11	11	12	12

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

PETRONEXUS
LUBRICATION FOR A BRIGHTER TOMORROW