MYSTIK® JT-9™ AW HYDRAULIC OILS

KEEP YOUR HYDRAULIC SYSTEM MOVING

LEAKSHIELD®

FORMULATION HELPS PROTECT SEALS AGAINST MINOR LEAKS

GREEN DYE AIDS DETECTION OF SEVERE LEAKS

Mystik® LUBRICANTS

JT-9
LEAKSHIELD
ANTI-WEAR
ANTI-LEAK
ANTI-FOAM
TECHNOLOGY

PREMIUM ANTI-WEAR HYDRAULIC OIL FORMULATED FOR ENHANCED PERFORMANCE

Mystik JT-9 LeakShield AW Hydraulic Oils are available in viscosity grades 32, 46, 68, 100, HVI-32, and HVI-68 for a wide variety of operating conditions

Your high-pressure hydraulic system needs the right oil to ensure proper component lubrication and power transfer performance. Mystik JT-9 LeakShield AW Hydraulic Oils transmit power efficiently to keep your machines running smoothly. These premium hydraulic oils provide heat transfer, protect system components, and seal out contaminants in high- and low-pressure industrial, agricultural and mobile hydraulic systems.

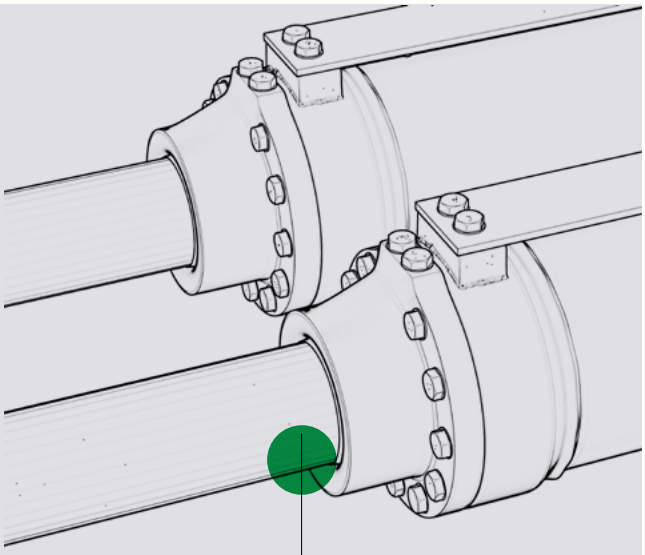
Mystik JT-9 LeakShield Oils are dyed green to aid the detection of severe leaks if they occur, so immediate action may be taken to minimize equipment oil loss and contamination to the environment.

PROTECT YOUR INVESTMENT, EQUIPMENT AND OPERATING ENVIRONMENT

FORMULATED FOR SEAL PROTECTION

Hydraulic cylinder seals help hold fluid and prevent leakage between critical parts. With the right lubricant, you get optimal performance from your seals. Mystik JT-9 LeakShield Oils contain advanced synthetic additives that help prevent minor leaks and provide longer seal life.

When leaks worsen, the green dye in the oils enables early detection so that you can take immediate action, curb potential equipment damage and limit contamination of the surrounding area.



Estimates are that over 100 million gallons of fluid could be saved every year in North America if external leakage from hydraulic machinery and other lubricated equipment was eliminated.[1]

By controlling leaks, Mystik JT-9 LeakShield Oils help to:

- Prevent potential loss of production
- Improve operating safety and performance
- Reduce high oil consumption and eventual component/system failure
- Minimize oil loss costs
- Reduce environmental contamination and clean-up costs

Leak Cost Calculation Data[2]

Oil Type	Leak Severity	Level	Gallon Loss Per Year	Leak Cost Per Year
Petroleum Based Hydraulics and Oils	1 drop / 10 seconds	A	42	$210
	1 drop / 5 seconds	B	84	$420
	1 drop / 1 second	C	420	$2,100
Synthetic Hydraulic Fluid	1 drop / 10 seconds	A	42	$1,050
	1 drop / 5 seconds	B	84	$2,100
	1 drop / 1 second	C	420	$10,500

[1] Leugner, L. D. (3/2000). Hydraulic System Leakage - The Destructive Drip. Machinery Lubrication. https://www.machinerylubrication.com/Read/21/hydraulic-system-leakage

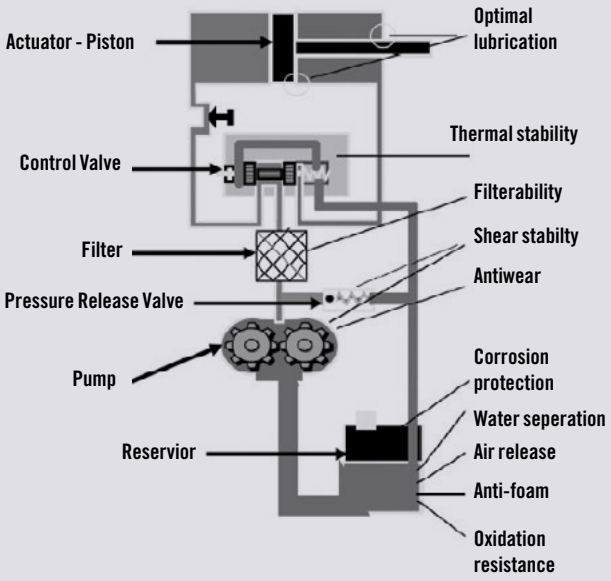
[2] Bill Ashby. CLS STLE Certified Lubrication Specialist

KEEP RUST, WEAR AND CONTAMINATION AT BAY

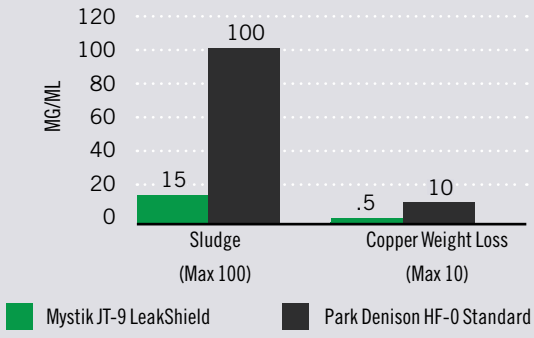
PERFORMANCE

RUST PROTECTION

When your hydraulic system is operating under severe conditions, Mystik JT-9 LeakShield provides an added layer of wear and rust protection for bearings, pumps, valves, gears and other critical components. This can reduce repair costs, improve overall production output and extend equipment life.



Thermal Stability, 168 hrs 135° C (Parker Denison HF-0)



The Thermal Stability Test is used to determine how well hydraulic oils can resist breakdown at high temperatures where copper and steel are present.

When put through the Parker Denison HF-0 test, Mystik JT-9 LeakShield AW Hydraulic Oils yielded results well below allowable industry measures. Mystik JT-9 LeakShield Oils showed only 15mg/100ml for sludge build up and 0.5mg for copper weight loss. They are suitable for protecting copper and steel components from oxidation and corrosion in critical components such as piston and vane pumps.

WEAR PROTECTION

The durability testing protocol aims to measure how well an oil will protect the hydraulic components under high stress conditions.

Mystik JT-9 LeakShield Oils had a **stage-12 pass** in the Parker Denison HF-0 FZG test.

Copper Corrosion (ASTM D130 3 hrs @ 100C)

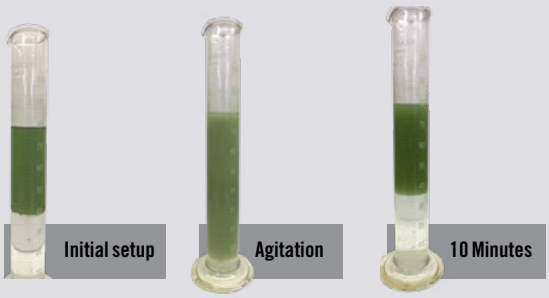
The ASTM Copper Strip test is performed to ascertain how suitable the lubricant is for hydraulic components containing copper or copper alloys to prevent premature component failure.

Mystik JT-9 LeakShield Hydraulic Oils **delivered a 1a rating, an excellent result**.

Mystik JT-9 LeakShield Oils also passed the Steel Corrosion (ASTM D665 A/B) Test.

WATER PROTECTION

For equipment at high risk of water penetration, it is important to choose a hydraulic oil that separates properly from water to help prevent corrosion of components such as servos, valves and pumps. Mystik JT-9 LeakShield Oils are demulsible-type hydraulic fluids that facilitate water separation and protect components from rust.



When put through the demulsibilty (ASTM D1401) test, Mystik JT-9 LeakShield Oils showed rapid water separation ability (10 minutes out of a maximum of 30 minutes).

VISCOSITY GRADES

FOR A RANGE OF OPERATIONS

Mystik JT-9 LeakShield Oils are suitable for a wide range of operating conditions in multiple industries:

CONSTRUCTION

AGRICULTURE

MINING

INDUSTRIAL

	Viscosity Grades					
Performance Features	**Vis 32**	**Vis 46**	**Vis 68**	**Vis 100**	**HVI-32***	**HVI-68***
Non-conductive Hydraulic Fluids Suitability (Dielectric Strength)					●	●
Oxidation & Thermal Stability	●	●	●	●	●	●
Anti-Wear Protection	●	●	●	●	●	●
Wide Temperature Application					●	●
Corrosion Protection	●	●	●	●	●	●
Leak Control	●	●	●	●	●	●
Green Color	●	●	●	●	●	●

* HVI-32 and HVI-68 are guaranteed to have a dielectric strength of no less than 28 kV when packaged and can be used as nonconductive hydraulic oils.

Dielectric strength is extremely sensitive to humidity and contamination. Once containers are opened, the dielectric strength does not remain at its original value. Containers should be kept tightly sealed and stored in a dry environment.

MYSTIK JT-9 LEAKSHIELD AW

APPLICATIONS

- Recommended for lubricating hydraulic circuit components including valves, motors, servos and pumps. Also recommended for the lubrication of bearings and gears requiring an anti-wear hydraulic oil.
- HVI-32 recommended for high viscosity index hydraulic fluid applications such as those identified by FMC Corporation.
- Can be used in applications where general non-detergent type or R&O inhibited oils are recommended.
- Can be used as API GL-1 gear lubricants with suitable viscosity.
- Suitable for use in vacuum pumps where an AW hydraulic oil is recommended.

Meet or Exceed:

- ASTM D6158 HM (2018)
- Fives Cincinnati P-68, 69, 70
- Parker Denison HF-0
- DIN 51524-2 (2017)
- Eaton Brochure 03-401-2010
- General Motors LS-2 (2004)
- JMCAS HK P041 (2004)
- ISO 11158 HM (FDIS 2009)
- SEB 18 22
- US Steel 126, 127, 136

Always check OEM recommendations for proper lubricant selection.

RIDE WITH US

Mystik Lubricants are formulated by technical experts, inspired by today's toughest lubrication problems. Mystik offers a full range of lubricants to keep your operation at peak performance.

BEYOND PREMIUM PRODUCTS, MYSTIK OFFERS:

- **Sales and Technical Experts**: Every operation is different and your lubrication program is designed to meet your production goal. Our sales and technical teams work in consultation with you to identify suitable lubricant solutions for your operations.
- **LubeAlert® Fluid Condition Monitoring**: Maintenance is a key component of an optimally run hydraulic system. LubeAlert is designed to help you identify hydraulic system problems early to mitigate damage to your equipment. LubeAlert is offered with web-based access and a mobile app for convenient use in the field or in the office.
- **Training**: The world of lubricants is constantly evolving. To help your team keep up with best practices and industry trends, we offer in-person and online training programs.

Let us work with you to make the right lubrication selection for your hydraulic system.

Learn more at www.MystikLubes.com.

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