

THE COMPLETE RANGE OF HYDRAULIC OIL SOLUTIONS

CASTROL HYSPIN AWH™ RANGE

Hyspin AWH™ has been specially formulated to provide good anti-wear and thermal stability performance. The careful blend of additives with a high quality base stock ensures that Hyspin AWH™ has excellent hydrolytic and oxidative stability while exhibiting a minimal tendency to produce sludge and deposits. In addition, Hyspin AWH™ provides corrosion protection to ferrous and yellow metal components found within a hydraulic system. This range is designed for use in industrial hydraulic systems which require anti-wear protection.

It meets the needs of hydraulic equipment operating under severe service conditions such as a wider temperature and high pressure applications. The Hyspin AWH™ range is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

- **Good thermal and oxidative stability** - leads to longer operating life, reduction in lubricant costs and minimises deposit formation giving a cleaner system.
- **Excellent anti-wear performance** - gives wear protection and reduces downtime from unscheduled maintenance.
- **Good filterability characteristics** - (including in the presence of water) enables cost savings to be made from increased filter life and reduced maintenance.
- **Excellent water separation and hydrolytic stability** - means reduced down time through prolonged lubricant life and increased equipment reliability.
- **High viscosity Index**. Minimum change in viscosity over wide temperature range
- **Proven additive system**. Ensures maximum protection from wear, corrosion, foaming and oxidation

CASTROL HYSPIN AWH-M RANGE

This range of high viscosity index (VI) hydraulic oils is based on the latest stabilised zinc additive technology.

Castrol Hyspin AWH-M contains a shear stable additive system which helps maintain the viscosity characteristics over a wide temperature range, even during prolonged use. It also imparts a very low pour point, enabling the product to be used in very cold environments.

Applications include outdoor equipment subjected to high and low temperatures such as off-highway and marine applications. This range is also suitable for indoor manufacturing equipment that incorporates control systems requiring minimal viscosity change with temperature – for example, precision machine tools.

- **Good anti-wear performance** – prevents wear of internal components and reduces downtime
- **High viscosity index** – allows improved system operation over a wide temperature range
- **Good water separation** – reduces downtime and prolongs lubricant life

CASTROL HYSPIN AWS RANGE

Hyspin AWS has been specially formulated to provide good anti-wear and thermal stability performance using the very latest additive technology. The careful blend of additives with a high quality base stock ensures that Hyspin AWS has excellent hydrolytic and oxidative stability while exhibiting a minimal tendency to produce sludge and deposits. In addition, Hyspin AWS provides corrosion protection to ferrous and yellow metal components found within a hydraulic system. This range is designed for use in industrial hydraulic systems which require anti-wear protection.

It is also suitable for other duties in which lubricants of high oxidation stability and lubrication performance are required, such as lightly loaded gears, variable speed units and bearings. The Hyspin AWS range is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

- **Good thermal and oxidative stability** - leads to longer operating life, reduction in lubricant costs and minimises deposit formation giving a cleaner system.
- **Excellent anti-wear performance** - gives wear protection and reduces downtime from unscheduled maintenance.
- **Good filterability characteristics** - (including in the presence of water) enables cost savings to be made from increased filter life and reduced maintenance.
- **Excellent water separation** - and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.

CASTROL HYSPIN HVI RANGE

This range of high viscosity index (VI) hydraulic oils is based on a carefully selected ashless (zinc free) additive system designed to meet and exceed the toughest performance standards. Castrol Hyspin HVI oils are intended for severely stressed hydraulic systems requiring a high level of anti-wear performance and/or fine filtration. In addition, these products exhibit excellent corrosion protection as well as outstanding thermal and oxidative stability.

Castrol Hyspin HVI has excellent hydrolytic stability and separates rapidly from water contamination.

Castrol Hyspin HVI contains a shear stable additive system that helps maintain the viscosity characteristics over a wide temperature range, even during prolonged use. It also imparts a very low pour point that enables the product to be used in very cold environments.

Applications include outdoor equipment subjected to high and low temperatures such as off-highway and marine applications. It is also suitable for indoor manufacturing equipment that incorporates control systems requiring minimal viscosity change with temperature, such as precision machine tools.

- **Good anti-wear performance** – prevents wear of internal components and reduces downtime
- **High viscosity index** – allows improved system operation over a wide temperature range
- **Excellent hydrolytic stability** – prolongs lubricant life and can reduce filter use

CASTROL HYSPIN ZZ RANGE

This range of hydraulic oils is based on a carefully selected ashless (zinc free) additive system designed to meet and exceed the most exacting performance standards.

Castrol Hyspin ZZ is particularly suitable for hydraulic systems using vane and piston pumps where elevated operating temperatures are encountered. These products are formulated for use in severely stressed systems in which high levels of anti-wear performance and/or ultra fine filtration are required. They have been proven to be resistant to the effects of 'dieseling' in highly stressed systems such as plastic injection moulding and fatigue testing equipment where the application leads to rapid breakdown of more conventional products.

Castrol Hyspin ZZ is suitable for a wide range of other applications demanding high levels of anti-wear and superior oxidation performance.

- **Good anti-wear performance** – prevents wear of internal components and reduces downtime
- **Excellent hydrolytic stability** – prolongs lubricant life and can reduce filter use
- **Good water separation** – decreases downtime and extends lubricant life

A CHOICE TO SUIT YOUR NEEDS

CHOOSING YOUR CASTROL HYDRAULIC OIL

VISCOSITY REQUIREMENTS	What are the maximum and minimum viscosity requirements of the system?
OPERATING TEMPERATURE	Does the temperature vary greatly? Is the system very hot?
FIRE RESISTANCE	Is a fire resistant fluid needed? (Please refer to separate fire resistant information)
MANUFACTURERS' RECOMMENDATIONS	Any OEM specific recommendations?
MATERIALS COMPATIBILITY	Do any component materials restrict the choice of fluids?
ENVIRONMENT	Any special considerations because of the location of the system?
ADDITIVE SYSTEM	Does the system require an ashless (zinc free) additive system?

THE EXPERTS IN HYDRAULIC OIL TECHNOLOGY

CASTROL OFFERS YOU A COMPREHENSIVE RANGE OF WORLD-CLASS HYDRAULIC OILS AND PRODUCT SUPPORT SERVICES THAT WILL HELP YOU TO:

- PROLONG THE LIFE OF HYDRAULIC SYSTEMS
- ATTAIN OPTIMUM HYDRAULIC SYSTEM PERFORMANCE
- EXTEND MAINTENANCE INTERVALS
- BOOST PRODUCTIVITY
- LOWER MAINTENANCE COSTS
- REDUCE OVERALL CONSUMPTION AND WASTE

We can bring you these powerful benefits by utilising our global process and applications expertise through our network of engineering and research professionals. It's then all delivered directly to you by our knowledgeable local sales and support teams. Our ultimate goal is to help you achieve optimum performance in your manufacturing environment.

Castrol hydraulic oils have been formulated using the latest thinking in raw materials and then rigorously tested in both laboratory and manufacturing conditions, in close collaboration with leading hydraulic system and machinery manufacturers. You can trust Castrol to provide the right product for the job, across all your operations.

HYDRAULIC OIL SOLUTIONS (cont)

CASTROL HYSPIN VSH 3000 RANGE

This product is a sophisticated mineral hydraulic oil incorporating the latest technology in anti-wear chemistry to impart improved resistance against premature wear. The main feature of Castrol Hyspin VSH 3000 is the extreme shear stability of its viscosity index improver.

Castrol Hyspin VSH 3000 is designed for use where very rapid speed of hydraulic response is imperative for production cycles at low start-up temperature – for example, plant or equipment operating in extremely high ambient operating temperature. While market applications for mineral hydraulic oils vary widely, it must be noted that in locations where a fluid spillage could result in a fire hazard it is important that a fire resistant fluid be used.

- **Multigrade characteristics** – rapid startup, high viscosity at working temperature
- **High shear stable viscosity index improver** – maintains fluid viscosity under severe operating conditions, fluid performs as required throughout its service life.
- **Anti-wear additives** – minimises equipment wear, reduced replacement costs and downtime.

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For professional advice about Castrol Products, call our:
Technical Help Line Australia: 1300 557 998

CASTROL HYSPIN HDH 7000 RANGE

This product is a very high performance mineral oil based hydraulic fluid with exceptional air release properties and shear stability, which together provide peak hydraulic performance for extended periods. The extremely stable viscosity properties of Castrol Hyspin HDH 7000 provides a double benefit of optimum cold start and run hydraulic control, with correct hydraulic efficiency at normal and high operating temperatures.

Superior air release properties ensure hydraulic power is maintained and the likelihood of pump cavitation and pump wear is significantly reduced. In addition, incorporation of advanced anti-wear additives offers improved pump life and consequent reduction in replacement parts which helps minimise downtime.

Castrol Hyspin HDH 7000 was developed for hydraulic systems where rapid response at cold start up and peak efficiency at operating temperature is required.

- **Stable viscosity** – Improved cold start-ups, peak hydraulic performance immediately available
- **Advanced anti-wear additives** – protection of pump and hydraulic components, reduced maintenance and less downtime.
- **Good anti-rust properties** – reduced wear caused by rust particles, improved reliability of hydraulic components
- **High aniline point** – ensures controlled effect on synthetic rubbers, extended life of seals

To make any comments about Castrol Products and services call:
Customer Service and Orders: 1300 554 890

LUBRICANTS

HYDRAULIC OILS

YOUR ADVANTAGE IN AN INDUSTRIAL WORLD

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.



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