



FLESCH ARBEITSBÜHNEN, TUTTLINGEN, GERMANY

Extended drains, extended savings.

“Using HYDREX Extreme gives me a feeling of security. I know that I can rely on my systems – because HYDREX Extreme is reliable. There have been no hydraulic-related system failures in two years, and that speaks for itself.” – Gerhard Flesch, Managing Partner



Flesch Arbeitsbühnen

After switching to HYDREX™ Extreme hydraulic fluid, the work platform manufacturer Flesch Arbeitsbühnen, was able to streamline its lubricant requirements, reduce its costs and eradicate hydraulic-related system failures.

Flesch Arbeitsbühnen is an expert in high access systems and operates across Europe. It has over 150 machines and enables users to work at heights of up to one hundred metres, giving them access to even the most hard-to-reach areas, such as the undercarriages of commercial aircraft. Customers can choose from such solutions as trailer lift platforms, scissor lift platforms, truck-mounted work platforms, telescopic boom lifts and personnel lifts. Most of the machines are equipped with hydraulic systems for lifting and lowering the work platforms. As workers often spend several hours on the work platforms, the hydraulic systems need to operate quietly, efficiently and safely.



The Challenge

Flesch relies on hydraulic systems in the operation of its work platforms. The hydraulic system must operate quietly and smoothly in order to satisfy customers and ensure that workers remain safe.

As the company provides a wide range of work platforms, each with different hydraulic pumps, various hydraulic fluids used to be required. This meant Flesch had to keep an extensive stock of various hydraulic fluids at differing viscosities in storage.

In some cases, it was also found that the temperature limits of the hydraulic pumps were being reached and even exceeded during intensive periods of use, such as during frequent starting and stopping or at locations with a high ambient temperature. As the machines automatically switch off at 80°C in order to cool down, work sometimes had to be interrupted.

This meant Flesch needed the following:

- A hydraulic fluid with a long service life
- A multigrade hydraulic oil that could be used in a range of hydraulic pumps
- A solution to the problem



The Solution

Switching to HYDREX Extreme

Flesch eventually switched to HYDREX Extreme from Petro-Canada, which offers a high viscosity index (VI).

By using HYDREX Extreme, Flesch is able to better plan their maintenance activities and reduce its storage costs. As it now uses only one hydraulic fluid at all temperatures, Flesch can fill all of its hydraulic systems with the same hydraulic oil without having to mix different fluids.

Thanks to the viscosity properties of HYDREX Extreme, it is easier for heat to dissipate from the hydraulic system, meaning the oil can also cool down quicker. "Since I started using HYDREX Extreme, we have not had a single instance of a work platform becoming jammed," explains Flesch.

The benefits of the long service life offered by HYDREX Extreme (based on 99.9% pure base oil from Petro-Canada) have contributed significantly to Flesch reducing its costs and streamlining its processes.

"I have been using HYDREX Extreme for over two years, and in that time we have not had a single system failure," explains Flesch. "The majority of my fleet now relies on HYDREX Extreme."



The Result

Sit back and relax – you can rely on HYDREX Extreme.

“Using HYDREX Extreme gives me a feeling of security. I know that I can rely on my systems – because HYDREX Extreme is reliable. There have been no hydraulic-related system failures in two years, and that speaks for itself,” says Flesch. “We are saving money, I am able to plan maintenance schedules more efficiently and I no longer need to think about mixing products. It is an elegant solution.”

HYDREX Extreme offers superb lubricant properties and extends maintenance intervals. This leads to reduced downtime and maintenance costs, thereby increasing productivity. In contrast to other, similar products from leading lubricant manufacturers, HYDREX Extreme holds up to 3X longer and offers up to 2X the protection against wear.†

HYDREX Extreme for Wide Temperature Protection

HYDREX Extreme is a high performance hydraulic fluid, designed for extremely wide temperature protection for high and severe low temperatures. HYDREX Extreme is specially formulated to deliver enhanced oxidation and shear stability, as well as antiwear protection to mobile equipment and industrial machinery. This advanced formula ensures maximum protection in even the most demanding conditions.

- Allows systems start-up at temperatures as low as -49°C/-56°F, with operating range between 32°C/-26°F and 64°C/147°F
- Minimizes sludge build-up for longer oil life and lower maintenance costs
- Oxidation stability extends time between hydraulic oil changes

† Measured against the number one selling North American hydraulic oil brand.

About Flesch Arbeitsbühnen

Flesch Arbeitsbühnen was established by Gerhard Flesch over 40 years ago. The company was initially involved with electrical systems, but as this market expanded rapidly, Mr. Flesch began to construct his own work platforms to meet demand in this growing industry. Today, Flesch Arbeitsbühnen specializes in selling and renting work platforms that can be used to reach all kinds of areas – even the most inaccessible ones that other work platforms cannot get to. Flesch operates a state-of-the-art facility over an area of 11,000 m²/118,000 sq. ft. in Tuttlingen, Germany. The company's customers use its products in such application areas as commercial aircraft maintenance – e.g. for Boeing and Airbus – as well as a host of indoor and outdoor building sites where height, positioning and user-friendly operation are crucial factors. Lufthansa uses work platforms from Flesch at Frankfurt International Airport.



To learn more about how Petro-Canada Lubricants can help your business visit:
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or contact us at **lubecsr@petrocanadalsp.com**

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