



Press Release



Divinol AquaChainFluid:

Zeller+Gmelin launches water-based high-performance chain saw fluid

Eislingen, 27 May 2020 - When using equipment such as chainsaws in environmentally sensitive areas, environmental and ecological aspects must be taken into consideration. Acceptance by operators should in no way lead to losses in performance. With Divinol AquaChainFluid, lubricant expert Zeller+Gmelin now has a resource-saving, water-based chain saw fluid in its product range. This new product contains no ingredients that are hazardous to humans, plants or animals and is the result of intensive research and development work.

According to current estimates, approx. 10,000 t of chain lubricants are released into the environment each year during logging as a result of loss lubrication. The use of easily biodegradable saw-chain oils should therefore be a matter of course for reasons of human and environmental compatibility alone. That's why Zeller+Gmelin has added a water-based saw-chain fluid to its existing product portfolio of lubricants for environmentally sensitive areas. By their own admission, most manufacturers have thus far been unable to produce a biodegradable, water-based product that also has excellent lubricating properties.

“With Divinol AquaChainFluid, we have developed an easy-to-use, water-based high-performance saw-chain fluid, which is not only easily biodegradable, but also has very good lubricity and excellent wear and corrosion protection,” says Michael Peter, Product Manager at Zeller+Gmelin, assessing the final result.





Excellent practical results

The water-based saw-chain fluid is in no way inferior to traditional chain oil variants in terms of adhesion and lubrication properties, resistance to ageing and resistance to cold temperatures, and is capable of fully replacing lubricants made of mineral or vegetable oil. AquaChainFluid was able to pass the Steel Finger Test DIN ISO 7120 A and also achieve a corrosion degree of 0 in the Cast Iron Chip Test DIN 51360-2.

Flow behaviour in cold conditions represented an additional challenge. Organic chain oils are generally applicable at temperatures as low as -18 degrees Celsius. In the 168-hour air bath test, however, Divinol AquaChainFluid achieves permanent cold flow behaviour down to -24 degrees Celsius. The lubricant developers were also impressed by the viscosity of Divinol AquaChainFluid. With 70 mm²/s at 40 °C it is comparable to standard organic chain oils and thus ensures good flowability from canisters and other packaging containers. This favourable viscosity-temperature behaviour makes Divinol AquaChainFluid a perfect chain fluid for year-round use at high and low temperatures.

Resource-saving fluid for humans, animals and the environment

Divinol AquaChainFluid has also already proven its worth in practice. The product is suitable for battery saws as well as for motor and electric saws in particularly environmentally sensitive terrain.

"It is important to note that there are no emissions in the form of oil mist," emphasises Michael Peter.

"This not only protects operators' health, but also soil, groundwater, plants and animals."

Last but not least, this also has a positive effect on users' protective clothing as there is no contamination by oil drops/oil mist. This means longer cut protection and clothing that can be worn longer overall.



Simple and effective in use

Users above all praise the simple convenient handling that means that the tank does not need to be emptied and cleaned after use, but can be stored with its contents for a longer period of time. As the product is foam-free, it also does not lead to any adhesions or gumming. Changing from standard chain lubricants to Divinol AquaChainFluid is very easy: The chain oil tank is emptied as much as possible and can be filled with Divinol AquaChainFluid at the next filling without prior cleaning.

The product is ageing stable and retains its functional properties. Even under maximum conditions, the product allows a clean woodcut without any discolouration. Users also rate the reduced odour as well as the high wear protection for chain, centreboard and guide star as particularly positive. Due to the product's water solubility, the cutting assembly and saw can be easily cleaned with a little water and a sponge after finishing work. "Such progress during development was only possible thanks to close cooperation with our customers and partners in order to be able to meet all details of the requirements," concludes Michael Peter.



The advantages of Divinol AquaChainFluid at a glance:

- + High wear protection
- + Excellent lubrication
- + Excellent corrosion protection
- + Good viscosity-temperature behaviour
- + No oil mist
- + No environmentally hazardous components
- + Water-based
- + Not marked
- + Readily biodegradable (OECD 301 B)
- + Conserves resources
- + Easy to handle
- + User-friendly with regard to filling, miscibility, cleaning
- + No foam formation
- + No sticking and resinification

Your contact person:

Andreas Rascher
Marketing
Schlossstraße 20
73054 Eislingen/Fils
Phone: 07161 / 802 - 352
E-Mail: a.rascher@zeller-gmelin.de