



Use our expertise and innovative thinking for professional vehicle maintenance.

September 10<sup>th</sup>, 2018

## Be ready for the future of mobility with BIZOL

- ◆ New lubricants are required to meet new hardware requirements
- ◆ New Gear Boxes require new maintenance programs
- ◆ New Internal Combustion engines will require new maintenance programs
- ◆ Focus on vehicles equipped with automatic Start-stop systems and plug-in hybrids in urban environment
- ◆ For **Maintenance of the Future** please visit BIZOL in the Porsche sponsored **Hall 2 D44**
- ◆ For **Maintenance for Internal Combustion** please visit BIZOL in **Hall 9.1 E25**

Frankfurt, Germany

### New motor oils are required to meet new hardware requirements

According to the VDA (Verband der Automobilindustrie) *FAST 2030* Study (<https://www.presseportal.de/pm/66435/3946033>) by 2030 the global automotive production will be 25% E-Autos, 37% Hybrids and 38% Internal Combustion vehicles. 75% of all vehicles in 2030 will have an internal combustion engine. The transition will be a lengthy one and the development of the internal combustion engine will require new lubricants in order to meet new hardware requirements.

In order to meet ever toughening emission targets, automotive OEMs put substantial efforts in development of low-friction powertrains. This implies downsized boosting, down-speeding, universal adoption of automatic start-stop systems, and switch to ultra-low viscosity lubri-

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cants. Some recent IC engines manage to achieve thermodynamic efficiency of up to 40%.

New engines require new lubricants. Future motor oils will be:

- Fully synthetic
- Ultra-low viscosity
- Using new base oils
- Using new additives

### Future Gear Boxes require new maintenance programs

BIZOL has made the first step to introduce a Transmission Maintenance Program.

Within our all in one solution BIZOL offers the first generation of ATF Machine with a complete adapter kit for all car manufactures. In addition BIZOL supplies high performance ATF-Fluids and the BIZOL ATF Cleaner+ for extending transmission service life.

The machine features an exclusive electronic control system that lets you replace ATF fluid without having to open the completely empty gearbox, regardless of the difference in temperature between the fresh fluid and the used fluid. In addition to controlling the operation of the pump of the ATF, the machine's software monitors the fluid replacement operation.

### By 2030 Internal Combustion engines will require new maintenance programs

BIZOL has developed an effective Maintenance Formula that helps maintain the engine performance of the vehicle according to the OEMs specifications.

### Solution for Hybrid vehicles and start-stop automatic in urban traffic

Start-stop systems increase engine wear up to 10 times and urban traffic tests it to the fullest. BIZOL can proudly be regarded as one of the pioneers when it comes to the development of specialized crankcase lubricants optimized for start-stop systems and hybrids. Our Green Oil+ is cutting-edge, fully synthetic motor oil deliberately optimized for the urban driving cycle. Using an original combination of most advanced base oils (ACN PAO, OSP) and a redesigned additive package, BIZOL created this oil so that car lovers can take proper care of their vehicles under the tough conditions of modern roads. Of course, it is Made in Germany.

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### About BIZOL

BIZOL is a German lubricant company manufacturing innovative and effective motor oils, and aftermarket car care products for those who love their cars. BIZOL has been founded in 1998 by the passionate physicist Boris Tatievski and is currently operating in more than 70 countries.

BIZOL is the example of a company using an effective business model serving partners with 100% support from the headquarters in Berlin, Germany.

[www.bizol.com](http://www.bizol.com)

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