



Concentric AB partners with hybrid and electric systems provider MAGTEC to develop a new electric oil pump for refuse truck applications

Concentric AB has extended its customer base with a supplier nomination from MAGTEC, a UK supplier of hybrid and electric drive systems used in zero emission refuse vehicles. A new electric oil pump has been developed for main traction motor cooling. Production will start during 2021 and sales revenue from this new contract are estimated to be MSEK 50 over the next five years.

The electric oil pump has the following key benefits:

- Robust design which includes a wet rotor eliminating the possibility of a dynamic seal failure,
- Long service life aided by liquid cooled electronics and DC brushless design giving service life >40,000 hours,
- Integrated diagnostics and utilising sensors for temperature and pressure, and
- Compact and low noise characteristics.

The new brushless DC motor design is suitable for both 12V and 24V supply. The brushless DC motor magnets and integrated drive electronics allow a longer service life when compared with the brushed DC motor counterpart.

Common drive electronics enables the power consumption to be adjusted based on system demands thus reducing the losses and ensuring high efficiency at all times. The bespoke software and integrated sensors for oil temperature and pressure give the system diagnostic capability.

David Woolley, President & CEO of Concentric AB commented “We continue to develop and grow our e-product offerings for both battery electric and fuel cell vehicles. We provide unparalleled levels of performance and reliability to our customers and are proud to be at the forefront of the drive toward carbon neutral transportation”.

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Concentric AB is an innovator in flow control and fluid power, supplying proprietary systems and components to the world's truck, agricultural machinery, construction equipment and industrial applications end-markets. The company has a global manufacturing presence including in the UK, USA, Germany, Sweden, India, China and Argentina. Concentric's focus is to develop world class technology with innovative solutions that meet the sustainability needs of our customers. Concentric offers engine products including lubricant, coolant and fuel pumps, hydraulic products encompassing gear pumps and power packs, and finally several key technologies for the fast growing market for electrical and hybrid powertrains. The Group has a turnover of circa MSEK 1,500 and circa 700 employees.