



Innovative Vehicle Technology

PRESS RELEASE

Alfa Laval and Haldex discuss united activities to solve the cleaning of crankcase gases

The two Swedish multi-national companies Alfa Laval and Haldex announced today that they have started joint technical and commercial investigations around the opportunity to unite their knowledge and resources – to clean crankcase gases from diesel engines, which will become an increasing demand as regulations are expected to become tougher. The intention is to combine the innovative use of Alfa Laval’s separation technology with the Haldex manufacturing and marketing strength to target an annual estimated market potential of about SEK 1 billion in Europe and the US.

Mr. Sigge Haraldsson, President and CEO of the Alfa Laval group, commented on the initiative to discuss cross border activities with Haldex and the market potential:

”Future demands for cleaner air will require manufacturers of diesel engines - truck and bus engines, construction machinery engines and engines for electric and marine applications – to clean also the crankcase gas that is ventilated from engines. We have succeeded in developing a conceptual solution, based on our proven separation technology, that will enable them to perform crankcase gas ventilation practically without external pollution.”

Regulations that require crankcase gases to be cleaned are under discussion in Europe as well as in the US and are expected to be implemented in the next few years since total engine emission, not only tailpipe emission, is coming more and more into focus.

The global yearly production of diesel engines, in the sizes 5-16 litres, is approximately 2.5 million engines. For commercial vehicles in Europe and the US the output is approximately 1.2 million engines – 7 manufacturers represent a major part of that volume.

Mr. Haraldsson continues: ”We have identified the need and developed a solution. With our expertise in separation technology we need a partner with expertise in the vehicle industry in order to develop the market approach and to bring this revolutionary new solution to the market. I believe that Haldex is that partner. Our combined objective is clear – to offer diesel engine manufacturers a simple, lasting and cost efficient way of eliminating the pollution that stems from crankcase gases.”

Mr. Claes Warnander, President and CEO of the Haldex group comments: " I look upon Alfa Laval’s initiative as an exciting opportunity for us to further strengthen our present position as supplier to engine manufacturers. Haldex has a strong marketing and distribution platform for the vehicle industry and a long tradition in providing innovative solutions to enhance vehicle performance and safety. We can also contribute with extensive experience in volume production with the relevant management systems and certifications for the vehicle industry. Jointly with Alfa Laval, we are well positioned to bring an outstanding solution for crankcase gas cleaning to the market".

Editor's notes:

- **Alfa Laval** is a leading global provider of specialized products and engineering solutions. Our equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes. Time and time again. We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuff, starch and pharmaceuticals. Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

Alfa Laval is listed on the Stockholm Exchange and has an annual sales of approximately SEK 16 billion with about 9,200 employees.

Further information can be found at www.alfalaval.com

- **Haldex** is an innovator of vehicle technology. We provide proprietary solutions in areas related to the vehicle's dynamics, performance, safety and fuel efficiency. Our systems and products are provided to manufacturers of trucks, cars, industrial vehicles and engines on a global basis.

Haldex is listed on the Stockholm Exchange and has an annual sales of almost SEK 7 billion with 4,100 employees.

Further information can be found at www.haldex.com

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