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New Gear Motors Tackle Upcoming Emission Challenges for Off-Road Vehicles

Sauer-Danfoss releases its new Group 2 and Group 3 Series fan drive gear motors to meet increased engine cooling requirements and improve machine operating efficiency.

AMES, Iowa, USA, April 29, 2009 – Sauer-Danfoss Inc. (NYSE:SHS) Sauer-Danfoss' introduction of Group 2 and Group 3 Series fan drive gear motors meet the machine cooling needs of demanding off-highway applications. Based on proven Sauer-Danfoss high performance gear motors, the new SGM2Y and SGM3Y motors offer a number of enhancements including a cast iron rear cover on the aluminum housing to handle higher pressure and durability requirements. A new electrohydraulic proportional relief valve, integrated into the cast iron rear cover, provides consistent machine performance over the entire operating temperature range, with more uniform performance over the lifetime of the product. The variable speed, proportional fan control results in more efficient cooling on demand and better fuel economy.

Global Emission Regulations Impact

“The introduction of Tier IV and Stage III B regulations requires emission reductions and the employment of technologies that will reduce net vehicle power output by about 5-10 percent, with heat rejected into the environment up by 10-30 percent. The outcome is engine and transmission oil temperatures will run at significantly higher levels. Adjustments are essential to compensate for both loss of available horsepower and higher engine and transmission oil operating temperatures,” explains Jeff Brenner, Product Portfolio Manager. “SGM2Y and SGM3Y motors can handle increasing engine and transmission oil temperatures by adjusting to both the higher heat loads and a wide range of severe duty operating conditions. To tackle the new emission challenges and increased demand for greater machine efficiency, OEM machine designers benefit from Sauer-Danfoss' 40 plus years of fan drive experience.”

Specification/Package Flexibility

The fan drive gear motors are available in two frame sizes with the following displacements: SGM2Y – 8.4 to 25.2 cc [0.51 to 1.54 in³/rev], SGM3Y – 22.1 to 44.1 cc [1.34 to 2.69 in³/rev]. Rated pressure is up to 250 bar [3625 psi] with peak pressure up to 270 bar [3915 psi]. A broad range of configurations are available, with multiple flange and shaft options to meet widely varying machine requirements. In addition, Sauer-Danfoss provides gear pumps, piston pumps, sensors, PLUS+1™ microcontrollers, standard fan drive software and the application experience to equip any off-road fan drive system.

Broad Application Suitability

Brenner adds, “Our fan drive motors, and complete systems, must consistently perform in hot, dusty environments. Engine emission requirements serve to magnify tough operating conditions for customer machines such as skid steer loaders, fork lift trucks, telehandlers, mini-excavators, wheel loaders, road rollers and pavers. Overall, the design features in these products speak to higher pressure capability, durability, design flexibility and efficiency.”

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Extended Benefits

Durability of this product is enhanced by a number of features. These include an integrated shaft seal protector – further safeguarding against dust and ensuring reliable operation, and high temperature seals that handle intermittent temperatures up to +110°C [+230°F] and down to -20°C [-4°F]. The cast iron rear cover adds durability as well as higher pressure capability, and the EH proportional relief valve maintains consistent performance throughout machine life. Finally, operator comfort gets a boost from reduced noise level due to improved gear teeth machining.

“These motors are ready to tackle the emission challenges and perform in future generations of machines. More power in a small package, along with greater cooling efficiency, lower noise and increased durability sum up the SGM2Y and SGM3Y fan drive motors,” says Brenner. “The PLUS+1™ Compliance environment can integrate these products seamlessly with customized software solutions to maximize machine productivity in a highly responsive control system. Greater product and system compatibility leads to shorter lead time – and shorter time to market for our customers.”

About Sauer-Danfoss

Sauer-Danfoss Inc. is a worldwide leader in the design, manufacture, and sale of engineered hydraulic, electric and electronic systems and components for use primarily in applications of mobile equipment. Sauer-Danfoss had revenues of \$2.1 billion in 2008 and has sales, manufacturing and engineering capabilities in Europe, the Americas and the Asia-Pacific region. The Company’s executive offices are located near Chicago in Lincolnshire, Illinois, USA.

More details online at www.sauer-danfoss.com.

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PHOTO CAPTION:

Sauer-Danfoss’ new Group 2 and Group 3 series fan drive gear motors offer a number of enhancements to meet increasing engine cooling requirements and improve operating efficiency for off-road vehicles.

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