

## Press Release

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### DLC – Proven Reliability and Improved Performance for Motorcycles

Diamond-Like Carbon (DLC) coatings are well established in racing series like NASCAR and Formula 1. Besides the four wheeled racing series also others can benefit. The extremely hard and low friction CAVIDUR® coatings can also meet the requirements found in two wheeled motorcycles and motocross. They can increase the life-time of components whether on wet, muddy or dry tracks.

In cooperation with Peugeot Motorcycles CAVIDUR® coatings have been proven their success during the 24h of Le Mans. The Peugeot Scooters team had their pistons coated with the state of the art carbon coatings from Sulzer Metco Thin Film. The success of the 80cc Scooters speaks for itself. The team finished first in CVT/Scooter class and took the 4<sup>th</sup> place in the 80cc class.



When racing the 24h of Le Mans not only the improved performance is a decisive factor. Reliability is the key in endurance racing and the coating helped to finish the race in the lead. From now on Peugeot Motorcycles considers CAVIDUR® coatings as validated and will continue to use DLC coated components for future races.

Valve train components and other engine components like the piston assembly are suitable for coating. This enables the use of smaller and lighter parts in the engine and leads to a further increase of the life-time of high loaded components. The main benefits of DLC coatings are especially their low friction, wear resistance and increased reliability. By reducing the friction losses, experience has shown that a performance improvement of 1 to 2 percent is achievable.

Not only high budget racing teams benefit from high-performance DLC coatings. Smaller racing teams and hobby racing drivers also coat their components with the so called "Black Gold". This name relates to the characteristic black carbon colour of DLC coatings.

With almost 20 years of experience in racing Sulzer Metco knows what it takes to successfully introduce DLC coatings in your race engine. A professional team can assist you in the definition and realization of the appropriate surface finish of the components prior to coating. The R&D department continuously works on improving the reliability, durability and performance required by our customers.

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