



VLOCITY: THE MOST RELIABLE RAILCAR IN THE WORLD

Another major milestone has been achieved in the VLocity rail project with Bombardier delivering the 200th Cummins-powered railcar to the Victorian Government in 2017.

The first VLocity high-speed trains went into service in Victoria in late 2005. Operating at speeds of up to 160 km/h they are powered by 750 hp Cummins QSK19 diesel engines. Each car in the three car VLocity trains has 19-litre Cummins power as well as an 85 kW Cummins genset.

The VLocity railcars are manufactured by Bombardier Transportation at its Dandenong facility, while production and assembly of the propulsion and electrical power generation modules is carried out at Cummins' South Pacific headquarters in Scoresby.

Cummins has worked closely with Bombardier to ensure high availability and on-time performance of the VLocity fleet. In fact, VLocity is considered the most reliable railcar in the world today.

Cummins South Pacific rail business manager Victor Lekhtman said the key measurement of the reliability of a rail fleet was the MDBF, or mean distance between failures. The MDBF is based on any delay in station arrival time of five minutes or greater.

"The original expectation for VLocity was an MDBF of 100,000 kilometres, but the actual long-term MDBF average exceeds 150,000 kilometres which is phenomenal. It's unheard of in the diesel railcar industry," said Lekhtman.

Cummins South Pacific managing director Steph Disher said the manufacturing milestone highlighted a partnership that started in August 2002 between the Victorian Government, Bombardier Transportation and Cummins. ***"The VLocity project has been a great success, with the trains providing outstanding service reliability and passenger comfort,"*** she said.

"Local employment has also benefited. We have a team of employees dedicated to production and assembly of the propulsion and power generation modules at our Scoresby facility, as well as a team of business managers and technicians at our Laverton branch who liaise with Bombardier and manage scheduled and unscheduled maintenance."

Disher pointed out that Cummins had 54 suppliers specifically for the VLocity project and that close to 600 components were used in local assembly of the modules.

The module concept was developed by an engineering team at Cummins South Pacific in cooperation with Bombardier to significantly reduce maintenance downtime. Each module is designed for quick replacement with a standby unit, meaning fast turnaround during scheduled servicing and maintenance. ■



Cummins Head Office
2 Caribbean Drive
Scoresby Vic 3179 Australia
Phone 613 9765 3222
Fax 613 9763 0079
www.cummins.com.au