
Durability performance of flow conditions on pulse-width modulated injectors

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This paper has shown the durability performance on electronically operated pulse-width modulated fuel injectors. Six injectors have installed in the system which a different type of the lubricant coatings and surface treatments. This experimental has operated by durability data was recorded until failure or the accumulation of more than 200 million injector time (approximately 70 days). NI LabVIEW has connected with the injector durability and creating the pulse widths and frequencies to the injector. The results from these experiments ranged from the failure of injector less than 100 hours. However, several injectors have operated successfully completed more than 200 million cycles.

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