

CASE STUDY

Reduced Fuel Consumption with Dura-Lite® CACs

North QLD
Based Transport
Company
2013



PROBLEM

A leading North QLD logistic services provider were experiencing cracking and consequent leaking from their tube-to-header charge air coolers (CACs) installed in their trucks. In addition, they had an issue with cracking on their relatively light duty manifold tanks. These problems were affecting the company's ability to reliably provide a required 24/7 service to their customers.

SOLUTION

Traditional bonded tube-to-header CACs have known issues of cracking and leakage, due in combination to the vibration and fatigue that they undergo as a result of the extreme temperature gradients they are subject to during normal operation.

After conducting a system evaluation, COR Cooling supplied a Dura-Lite® Charge Air Cooler to replace the CAC that had failed. Dura-Lite® CAC's innovative patented silicon grommet tube-to-header seal system eliminates failure due to cracking and leaking, and is guaranteed to be leak free for 5 years or 1,000,000 kilometres.

The installation of the Dura-Lite® CAC resulted in reduced repair and maintenance costs for the truck's operation and less downtime causing negative impacts on customer service.

In addition, when undertaking post-installation monitoring, the fuel consumption of the truck (same truck, same driver, same route) was reported to show increased efficiency with the Dura-Lite® CAC installed. The fuel economy improved from 1.72 km/litre to 1.83 km/litre resulting in a payback period of only 22,000km.