



Xtreme Fuel Optimizer Fuel Catalyst Case Study FK007 Haul Truck Test

Test Method:

The procedure used to measure the fuel consumption in this Rimpull 150 ton coal hauler, is an adaptation of the US-EPA Federal Test Procedures (FTP) and the Australian Standards engineering method AS2077-1982 known as the Carbon Mass Balance evaluation. The method measures the fuel consumed by the engine while operating under steady-state or static engine conditions. The Bacharach True Spot Smoke meter was used to determine the change in particulate emissions (soot). Concurrently, an in-house fuel study was conducted to determine fuel consumption improvements based on daily fuel, weight, and hour meter records.

Test Results:

This equipment test realized a **6.6% improvement in engine efficiency**, with the Carbon Mass Balance procedure, and a **7.1% improvement in engine fuel efficiency**, with the in-house fuel study, after XFO fuel borne catalyst treatment. The same engine experienced a **30% reduction in particulate density (smoke reduction)**, with similar reductions in other harmful emissions levels.