



**FILTER
TECHNOLOGY**

cleaner fluids mean better business

CASE STUDY



Emissions

Case No : 6 - 6 - 4

Emissions : Cat 3412 Gen Set

Southwest Laser .. Thoreau, New Mexico, USA CAT 3412 Gen-Set

This Gen-Set outputs 725kW at 60Hz and 906 kVA. It drives the main crusher and shaker at the company's quarry in Thoreau.

In an emission test on October 8, 2002, at 1,031 hours on the set, the baseline was set. Two Filter Technology FMF4 fuel filters and two FMO4 oil filters were then fitted. The set was run for four hours and with 1,035 hours on the set, the emission readings were again taken.

The results were:

Opacity was reduced by31.0%

Carbon dioxide (CO₂) was reduced by12.0%

Nitrous oxide (NO_x) was reduced by10.0%

Fuel economy improved by6.5%

After four hours of running with the FTA filters fitted, the owner and mechanic stated they were very surprised with how smooth the unit was running and how the "tinware" (the trailer) had noticeably less vibration.

