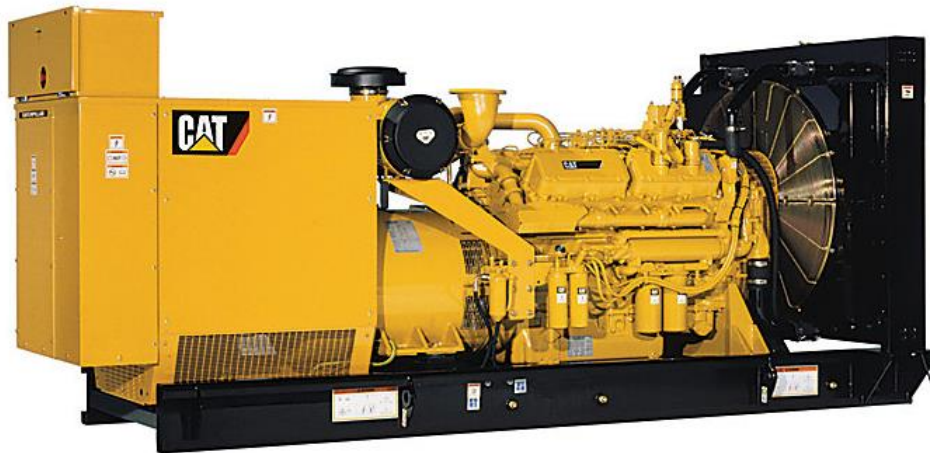


Diesel CAT Generator

Wisconsin – USA



Fuel: Diesel

Machine/Type: Diesel Generator CAT Diesel 3412

Test: Fuel Efficiency

Xp Lab, Inc.

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CASE STUDY



OBJECTIVE

Check Xp3's efficiency in a CAT diesel generator over the course of 30 months. The generator continuously operated throughout the entire test period.

PROCESS

1. Fuel consumption **prior to the use** of Xp3 was determined
2. Generator was run for 18 months **with** Xp3 to determine its fuel consumption all the while being tested intermittently.
3. After 30 months, the use of Xp3 was suspended for a period of time in order to retest the generator's fuel consumption **without** the use of Xp3.
4. Once the test without Xp3 was conducted, Xp3 was once again added to the fuel in order to retest the generator's fuel consumption **with** Xp3.

RESULTS

- | | |
|---|--|
| 1. Average fuel consumption w/out Xp3: | 6,000 gal/month |
| 2. Average fuel consumption w/ Xp3 for 18 months: | 5,490 gal/month
SAVINGS 8.80% |
| 3. Diesel consumption after suspending the use of Xp3: | 195.66 gal/ 10 hours |
| 4. Diesel consumption after reinstating the use of Xp3: | 178.10 gal/ 10 hours
SAVINGS 8.97% |

ADDITIONAL BENEFITS OBSERVED

Even though located in Wisconsin, USA where the winter temperature is very low, normal diesel fuel was able to be used year round as there were no issues with fuel gelling or filter clogging while using Xp3.

The frequency in which oil needed to be changed was reduced from every 200 hours to every 250 hours.

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