

## **RSC Equipment Emission Tracking**

Thank you for your interest in our sustainability effort. The following explains why and how the emission data in connection with your use of RSC Equipment is collected, and how its use can benefit your operation.

### **Why is RSC tracking emission data and how does it benefit customers?**

Currently there are customers dedicating staff to tracking amount of fuel consumed in each piece of equipment at each job site. Back office staff time is used to compile and report the emission information. Realizing the need for emission reporting will increase with climate change regulations; we decided to gather emissions data for our customers and eliminate a lot of inefficiency.

RSC has been focused on sustainability for years, and believe we can improve things that we measure. By compiling emission information we will help our customers not only with regulatory compliance and voluntary reporting needs, but also serve as a resource for our customers meeting their sustainability goals. The emission data being collected will enable our customers to focus on reducing their emissions by equipment category classification having biggest impact on their footprint.

### **How accurate is the information?**

We undertook a three step process:

- (1) compile the relevant data**, which took over a year to tediously compile numerous components of relevant engine related data for each individual piece of equipment.
- (2) create a formula to calculate the emissions**, we utilized the expertise of URS a worldwide environmental engineering firm to assist us in creating formulas to calculate the green house gas and criteria pollutant emissions from the use of our equipment.
- (3) verify the formula and the data for accuracy and integrity**, we partnered with Arizona State University's Global Institute of Sustainability who verified that both the formula and the data collected were accurate.

### **What is calculated and what are the components of the formula?**

For the benefit of our customers, green house gases (CO<sub>2</sub>-e), and criteria pollutants (HC, CO, NO<sub>x</sub>, PM, & NO<sub>x</sub> + HC) are calculated for diesel equipment with hour meters. Some of the elements in the formula are:

- Number of hours the equipment was used
- Load factor (EPA based category classification for CO<sub>2</sub> and 100% for criteria pollutants)
- Fuel consumption
- RSC preventive maintenance metrics
- Density conversion
- Emission factors
- Horse power/Tier level (using the EPA table in calculating the NO<sub>x</sub> + HC)
  - Tier 2 standards were used for tiers 0, 1 and 2, and
  - Tier 3 standards were used for tiers 3, 4 and 4i.
  - If the table did not provide data for a particular tier, the 90:10 rule is used.

We chose not to use a standardized or mass-average data, but engine family specific data provided by the California Air Resources Board and the EPA. This ensures accurate data, giving customers the most detailed information about emissions associated with the use of rented equipment. For engine specific data that is unavailable from the EPA, CARB or the equipment manufacture, we use an average of data compiled from adjacent year or the next available year for that equipment category classification (this amounts to less than 17% of the equipment being calculated).

Also, a well-maintained fleet will pollute less, allowing engines to run at optimum operating efficiency. RSC has a rigorous focus on preventive maintenance. For example, if an oil change is required at 3,000 miles, we are current if we do it at 2,999, but we are not at 3,001 miles. Currently we are approximately 98% current on manufacturer recommended maintenance intervals. However, we feel it is important to include the impact of maintenance on engine emissions in the formula by an increase of 0.1% to the emission factor for each 1% decrease in our Preventative Maintenance metric. Obviously, our goal is to be 100% current with our preventive maintenance.

**Where is the emission information stored, how can I access it?**

Printed on every invoice you will receive the carbon calculation for the equipment rented. Each piece of equipment with data captured by this calculation is identified by “\*CF” on the applicable line. At the bottom of the invoice is the total amount of CO<sub>2</sub>-e emissions (in tons) that have resulted from the use of the equipment on the invoice.

For individual green house gases and criteria pollutants emissions, reports are available through the RSC Online customer portal, and Total Control<sup>®</sup> rental asset management system.

**Who to contact for additional information?**

For more information or questions, please ask your RSC representative, customer care 1-800-222-7777, or send an email to the RSC Green Team at [greenteam@RSCrental.com](mailto:greenteam@RSCrental.com).