The EPA has National Emission Standards for Hazardous Air Pollutants (NESHAP) for certain stationary engines that go into effect on October 19, 2013. The EPA regulations come under RICE-MACT rules, which apply to any piece of equipment driven by stationary reciprocating internal combustion engines located at a major source of hazardous air pollutants (HAP). “RICE-MACT” refers to “Reciprocating Internal Combustion Engines” (RICE) and “Maximum Achievable Control Technology” (MACT).

These rules are designed to regulate emission standards for stationary reciprocating engines, which go into full effect under NESHAP Subpart ZZZZ. This new regulation will require the industry to implement new processes when it comes to testing in-service engine oils. Oil and filter changes will be mandated depending on the horsepower of the engine, engine design, and whether the application is emergency or non-emergency. This will impact lubrication management practices. The use of in-service oil analysis allows for alternative oil change frequencies instead of the prescribed frequencies detailed in the NESHAP ZZZZ regulations.

Testing supports compliance of RICE-MACT EPA regulations

Tribology programs are designed to provide accurate and timely information allowing you the most flexibility in equipment maintenance actions, reducing the potential for costly repairs and possible penalties.

Testing of the used engine oil provides a tool for documenting compliance of the oil change requirements as well as allowing for drain intervals that may be more favorable to maintenance practices. ALS test reports provide horsepower ratings on applicable equipment when this information is provided. Diagnostics protocols can then note a “RICE-MACT alert!” on applicable test reports. This would involve mandatory re-testing of the data outlier to confirm original data reported and recommending an immediate oil change if not done at time of sampling. Operators will have two business days to change their oil or take the unit out of operation upon receipt of the RICE-MACT alert sample analysis.

In the midstream sector the need to test the oil for EPA compliance of the RICE-MACT ruling is a necessity. Natural gas engines that fall under this provision are required to test or change their oil depending upon the horsepower and other factors. ALS can provide you with the tools needed to maintain your equipment’s availability and provide compliance with the EPA Ruling. ALS Tribology programs are designed to provide accurate and timely information allowing you the most flexibility in equipment maintenance actions, reducing the potential for costly repairs and possible penalties.

Testing of the used engine oil provides a tool for documenting compliance of the oil change requirements as well as allowing for drain intervals that may be more favorable to maintenance practices. ALS test reports provide horsepower ratings on applicable equipment when this information is provided. Diagnostics protocols can then note a “RICE-MACT alert!” on applicable test reports. This would involve mandatory re-testing of the data outlier to confirm original data reported and recommending an immediate oil change if not done at time of sampling. Operators will have two business days to change their oil or take the unit out of operation upon receipt of the RICE-MACT alert sample analysis.

In the midstream sector the need to test the oil for EPA compliance of the RICE-MACT ruling is a necessity. Natural gas engines that fall under this provision are required to test or change their oil depending upon the horsepower and other factors. ALS can provide you with the tools needed to maintain your equipment’s availability and provide compliance with the EPA Ruling.
## Our Global Tribology Locations

### AUSTRALIA
**Brisbane—Laboratory**  
41 Yarraman Place  
Virginia, Queensland 4014  
+61 7 3326 6300  

**Perth—Laboratory**  
Unit 1/30 Oxleigh Drive  
Malaga WA 6090 Australia  
+61 8 9347 3244  

**Sydney—Laboratory**  
Unit 2, 171/175 Newton Rd  
Wetherill Park, NSW 2164  
+61 2 8786 3150  

**Muswellbrook—Laboratory**  
Unit 2, Lot 6 Industrial Close  
Muswellbrook  
NSW 2333  
+61 2 6542 2423  

### CANADA
**Burlington, Ontario—Laboratory**  
1240 Burloak Drive, Unit 6  
Burlington, ON L7L 6B3  
+1 877 732 9559  

**Edmonton, Alberta—Laboratory**  
10717-176 Street  
Edmonton, AB T5S 1K1  
+1 888 489 0057  

### CHILE
**Santiago—Laboratory**  
Av. Americo Vespucio 2760- H Conchali  
Centro Empresas El Cortijo  
Santiago, Chile  
+56 2 2406 9770  

### CZECH REPUBLIC
**Prague—Laboratory**  
Na Harfe 336/9  
190 00 Prague 9,  
Prague, Czech Republic  
+420 284 081 575  

### MALAYSIA
**Kuala Lumpur—Laboratory**  
19 & 21, Jalan Astaka, 8/84, Section U8,  
Bukit Jelutong, 40150 Shah Alam  
Selangor, Malaysia  
+603 7845 8257  

### NEW ZEALAND
**Wellington—Laboratory**  
74 Seaview Road  
Lower Hutt  
Wellington, New Zealand  
+64 04 586 6202  

### SINGAPORE
**Singapore—Laboratory**  
121 Genting Lane  
#04-01 ALS Building  
Singapore 349572  
+65 6589 0118  

### UNITED STATES
**Atlanta, Georgia—Laboratory**  
3121 Presidential Drive  
Atlanta, GA 30340  
+1 770 454 8000  

**Cleveland Technical Center—Laboratory**  
6180 Halle Drive, Suite D  
Vallely View, OH 44125  
+1 216 674 4600  

**Houston, Texas—Sales & Marketing**  
10450 Stancliff Road, Suite 210  
Houston, TX 77099  
+1 281 599 1242  

**Kansas City, Kansas—Laboratory**  
935 Sunshine Road  
Kansas City, KS 66115  
+1 913 281 9881  

**Phoenix, Arizona—Laboratory**  
3319 West Earl Drive  
Phoenix, AZ 85017  
+1 602 253 6515  

**Portland, Oregon—Laboratory**  
4943 NW Front Avenue  
Portland, OR 97210  
+1 503 286 9845  

**Reno, Nevada—Laboratory**  
1375 Greg Street, Suite 104  
Sparks, NV 89431  
+1 775 358 3869  

---

**www.alsglobal.com**