

***1P - Report Period: APR 2014***  
***Status Of Reported Tests***

| STATUS               | COUNT | PERCENT |
|----------------------|-------|---------|
| Aborted              | 2     | 25      |
| Valid                | 6     | 75      |
| Total Reported Tests | 8     | 100     |

***1P - Report Period: APR 2014***  
***Itemized Lost Test Report***

| Obs | Date     | TESTKEY   | REASON                                                                  |
|-----|----------|-----------|-------------------------------------------------------------------------|
| 1   | 20131025 | ACC-13027 | Test Terminated At Test Hour 303 Due To High Oil Consumption.           |
| 2   | 20140220 | ACC-13717 | This Test Terminated At 308 Hous Due To Piston/Cylinder Liner Scuffing. |

***1P - Report Period: APR 2014***  
***Replicate Database Report***

| Components of<br>Replicate<br>Database | APR<br>2014 | All<br>Periods |
|----------------------------------------|-------------|----------------|
| Number of Tests                        | 3           | 40             |
| Formulations                           | 2           | 19             |
| Labs                                   | 1           | 4              |
| Stands                                 | 1           | 15             |

***1P - Report Period: APR 2014***  
***by-Formulation Pooled s and Reproducibility of Replicate Data***

| Report Period | Parameter          | Degrees of Freedom | Pooled s | R       |
|---------------|--------------------|--------------------|----------|---------|
| APR 2014      | TGC                | 1                  | 5.1265   | 14.354  |
| APR 2014      | EOTOC (Without SA) | 1                  | 0.5545   | 1.552   |
| APR 2014      | TLC                | 1                  | 13.2583  | 37.123  |
| APR 2014      | WD                 | 1                  | 4.9497   | 13.859  |
| APR 2014      | OC                 | 1                  | 0.5545   | 1.552   |
| APR 2014      | EOTOC              | 1                  | 0.3082   | 0.863   |
| APR 2014      | TGC (Without SA)   | 1                  | 5.1265   | 14.354  |
| APR 2014      | TLC (Without SA)   | 1                  | 13.2583  | 37.123  |
| APR 2014      | WD (Without SA)    | 1                  | 4.9497   | 13.859  |
| APR 2014      | OC (Without SA)    | 1                  | 0.3082   | 0.863   |
| All           | TGC                | 21                 | 5.8417   | 16.357  |
| All           | EOTOC (Without SA) | 21                 | 0.2033   | 0.569   |
| All           | TLC                | 21                 | 9.0181   | 25.251  |
| All           | WD                 | 21                 | 40.6875  | 113.925 |
| All           | OC                 | 21                 | 0.2033   | 0.569   |
| All           | EOTOC              | 21                 | 0.1203   | 0.337   |
| All           | TGC (Without SA)   | 21                 | 6.1554   | 17.235  |
| All           | TLC (Without SA)   | 21                 | 8.6465   | 24.210  |
| All           | WD (Without SA)    | 21                 | 41.3067  | 115.659 |
| All           | OC (Without SA)    | 21                 | 0.1203   | 0.337   |

**1P - Report Period: APR 2014**  
**Pass/Fail**

| Report Period | API Category                   | N   | Number Passed | % Passed |
|---------------|--------------------------------|-----|---------------|----------|
| APR 2014      | All Categories, All Parameters | 6   | 3             | 50.000   |
| APR 2014      | CI-4 - All Parameters          | 6   | 3             | 50.000   |
| APR 2014      | CI-4, EOTOC                    | 6   | 5             | 83.333   |
| APR 2014      | CI-4, EOTOC (Without SA)       | 6   | 5             | 83.333   |
| APR 2014      | CI-4, OC                       | 6   | 6             | 100.000  |
| APR 2014      | CI-4, OC (Without SA)          | 6   | 5             | 83.333   |
| APR 2014      | CI-4, SCUFFING                 | 6   | 6             | 100.000  |
| APR 2014      | CI-4, STUCK_RINGS              | 6   | 6             | 100.000  |
| APR 2014      | CI-4, TGC                      | 6   | 6             | 100.000  |
| APR 2014      | CI-4, TGC (Without SA)         | 6   | 6             | 100.000  |
| APR 2014      | CI-4, TLC                      | 6   | 5             | 83.333   |
| APR 2014      | CI-4, TLC (Without SA)         | 6   | 5             | 83.333   |
| APR 2014      | CI-4, WD                       | 6   | 3             | 50.000   |
| APR 2014      | CI-4, WD (Without SA)          | 6   | 3             | 50.000   |
| All           | All Categories, All Parameters | 343 | 207           | 60.350   |
| All           | CI-4 - All Parameters          | 343 | 207           | 60.350   |
| All           | CI-4, EOTOC                    | 343 | 280           | 81.633   |
| All           | CI-4, EOTOC (Without SA)       | 343 | 268           | 78.134   |
| All           | CI-4, OC                       | 343 | 310           | 90.379   |
| All           | CI-4, OC (Without SA)          | 343 | 304           | 88.630   |
| All           | CI-4, SCUFFING                 | 343 | 287           | 83.673   |
| All           | CI-4, STUCK_RINGS              | 343 | 342           | 99.708   |
| All           | CI-4, TGC                      | 343 | 277           | 80.758   |
| All           | CI-4, TGC (Without SA)         | 343 | 268           | 78.134   |
| All           | CI-4, TLC                      | 343 | 256           | 74.636   |

***1P - Report Period: APR 2014***  
***Pass/Fail***

| Report Period | API Category           | N   | Number Passed | % Passed |
|---------------|------------------------|-----|---------------|----------|
| All           | CI-4, TLC (Without SA) | 343 | 256           | 74.636   |
| All           | CI-4, WD               | 343 | 275           | 80.175   |
| All           | CI-4, WD (Without SA)  | 343 | 268           | 78.134   |

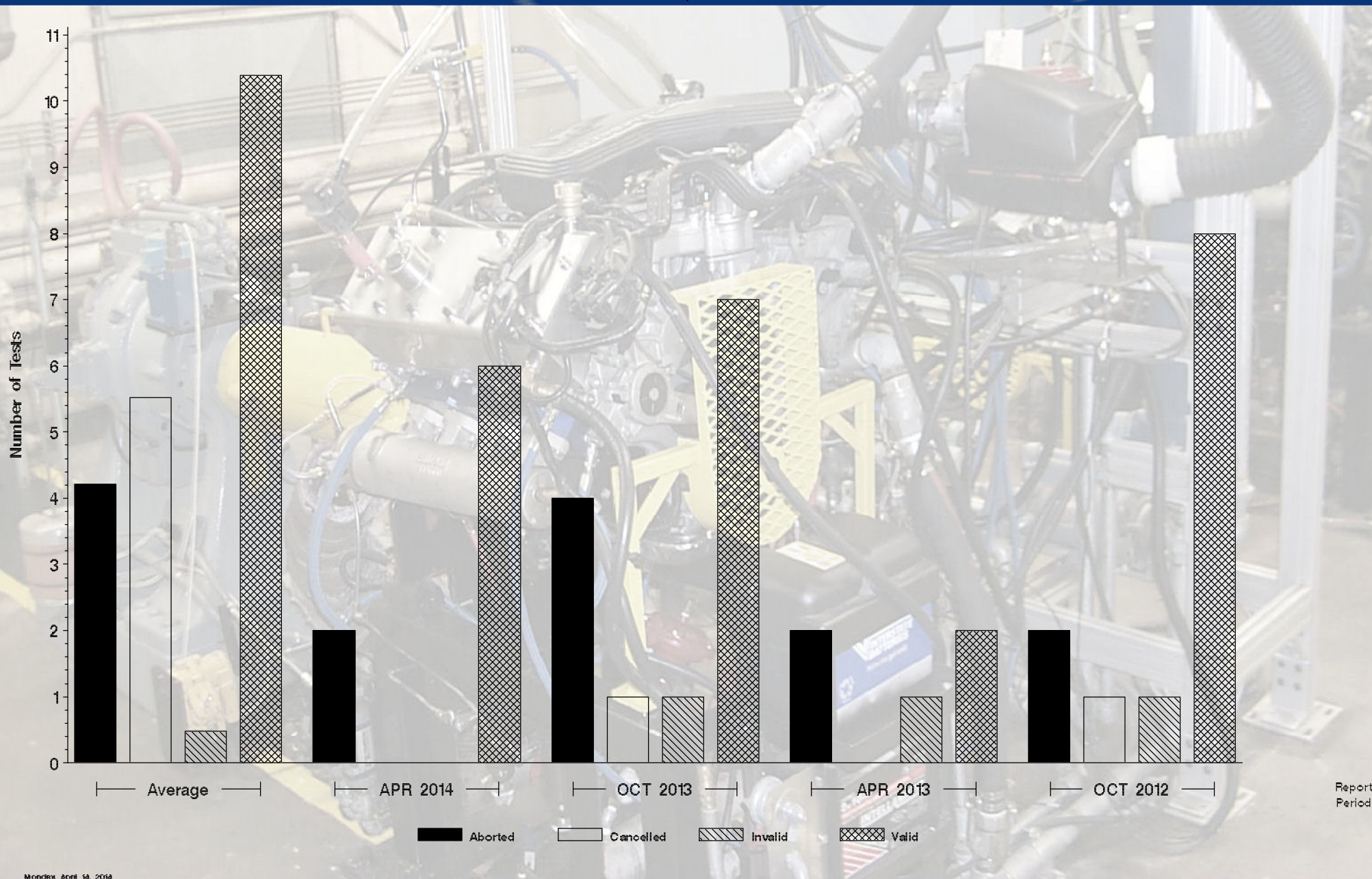


# Monitoring Agency

6555 Penn Avenue, Pittsburgh, PA 15206

<https://acc-ma.org>

1P  
Status of Reported Tests





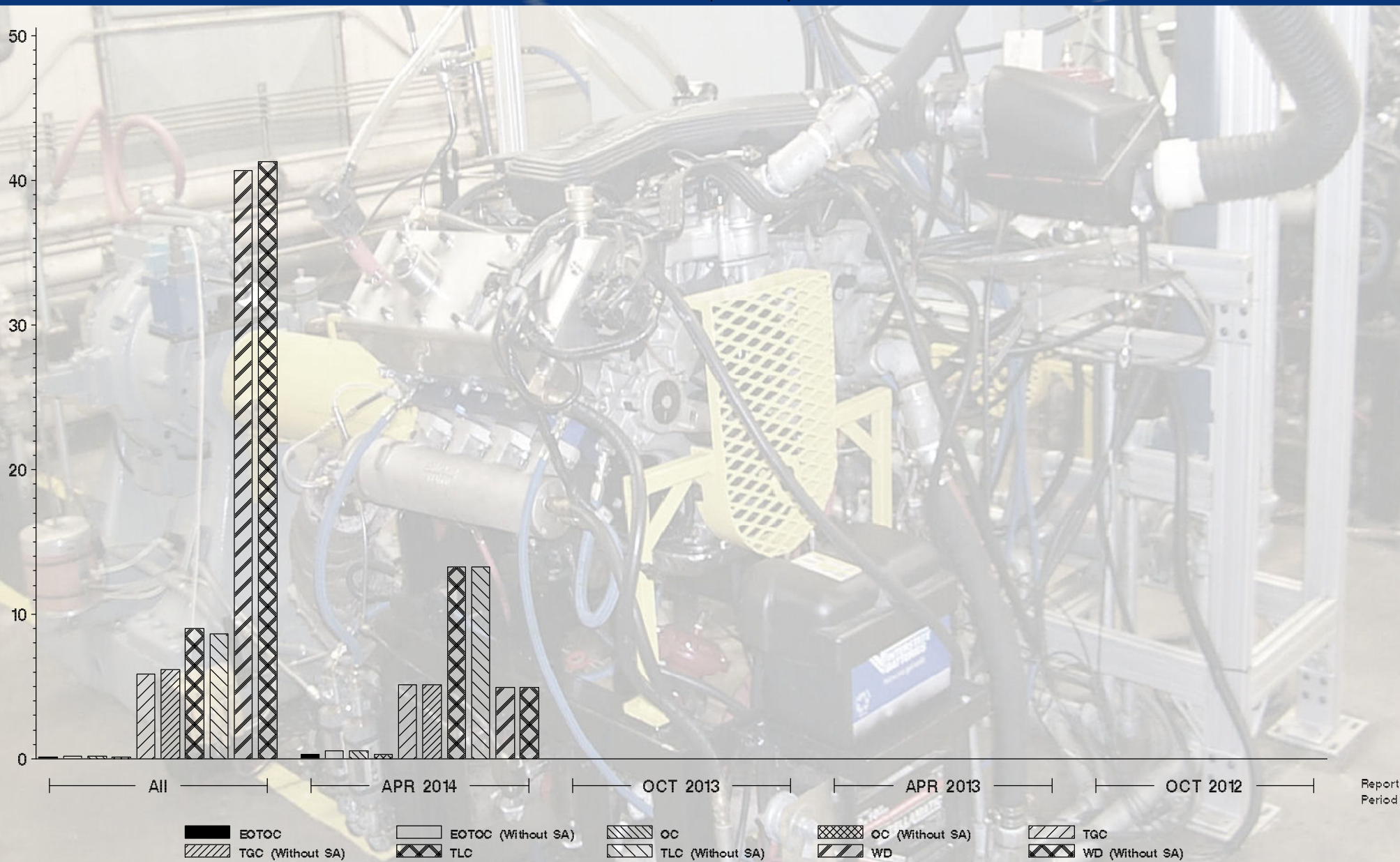
# Monitoring Agency

6555 Penn Avenue, Pittsburgh, PA 15206

<https://acc-ma.org>

1P

Candidate Precision as Represented by Pooled S





# Monitoring Agency

6555 Penn Avenue, Pittsburgh, PA 15206

<https://acc-ma.org>

1P

Candidate Precision as Represented by Pooled S

