

***VID vis grades other than 0W-20, 5W-20, 0W-30, or 5W-30 - Report Period: OCT 2012***  
***Status Of Reported Tests***

1

| STATUS               | COUNT | PERCENT |
|----------------------|-------|---------|
| Valid                | 10    | 100     |
| Total Reported Tests | 10    | 100     |

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***Replicate Database Report***

2

| Components of<br>Replicate<br>Database | OCT<br>2012 | All<br>Periods |
|----------------------------------------|-------------|----------------|
| Number of Tests                        | .           | .              |
| Formulations                           | .           | .              |
| Labs                                   | .           | .              |
| Stands                                 | .           | .              |

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**by-Formulation Pooled s and Reproducibility of Replicate Data**

3

| Report Period | Parameter         | Degrees of Freedom | Pooled s | R       |
|---------------|-------------------|--------------------|----------|---------|
| OCT 2012      | FEI2              | 1                  | 0.00000  | 0.00000 |
| OCT 2012      | FEISUM            | 1                  | 0.11314  | 0.31678 |
| OCT 2012      | FEI2 (Without SA) | 1                  | 0.01414  | 0.03960 |
| All           | FEI2              | 7                  | 0.25036  | 0.70100 |
| All           | FEISUM            | 7                  | 0.60689  | 1.69931 |
| All           | FEI2 (Without SA) | 7                  | 0.34701  | 0.97162 |
| All           | FEI2              | 7                  | 0.25036  | 0.70100 |
| All           | FEISUM            | 7                  | 0.60689  | 1.69931 |
| All           | FEI2 (Without SA) | 7                  | 0.34701  | 0.97162 |

**VID vis grades other than 0W-20, 5W-20, 0W-30, or 5W-30 - Report Period: OCT 2012**  
**Pass/Fail**

| Report Period | API Category                   | N   | Number Passed | % Passed |
|---------------|--------------------------------|-----|---------------|----------|
| OCT 2012      | All Categories, All Parameters | 10  | 8             | 80.0000  |
| OCT 2012      | GF-5 - All Parameters          | 10  | 8             | 80.0000  |
| OCT 2012      | GF-5, FEI2                     | 10  | 8             | 80.0000  |
| OCT 2012      | GF-5, FEI2 (Without SA)        | 10  | 8             | 80.0000  |
| OCT 2012      | GF-5, FEISUM                   | 10  | 9             | 90.0000  |
| All           | All Categories, All Parameters | 106 | 49            | 46.2264  |
| All           | GF-5 - All Parameters          | 106 | 49            | 46.2264  |
| All           | GF-5, FEI2                     | 106 | 54            | 50.9434  |
| All           | GF-5, FEI2 (Without SA)        | 106 | 40            | 37.7358  |
| All           | GF-5, FEISUM                   | 106 | 57            | 53.7736  |

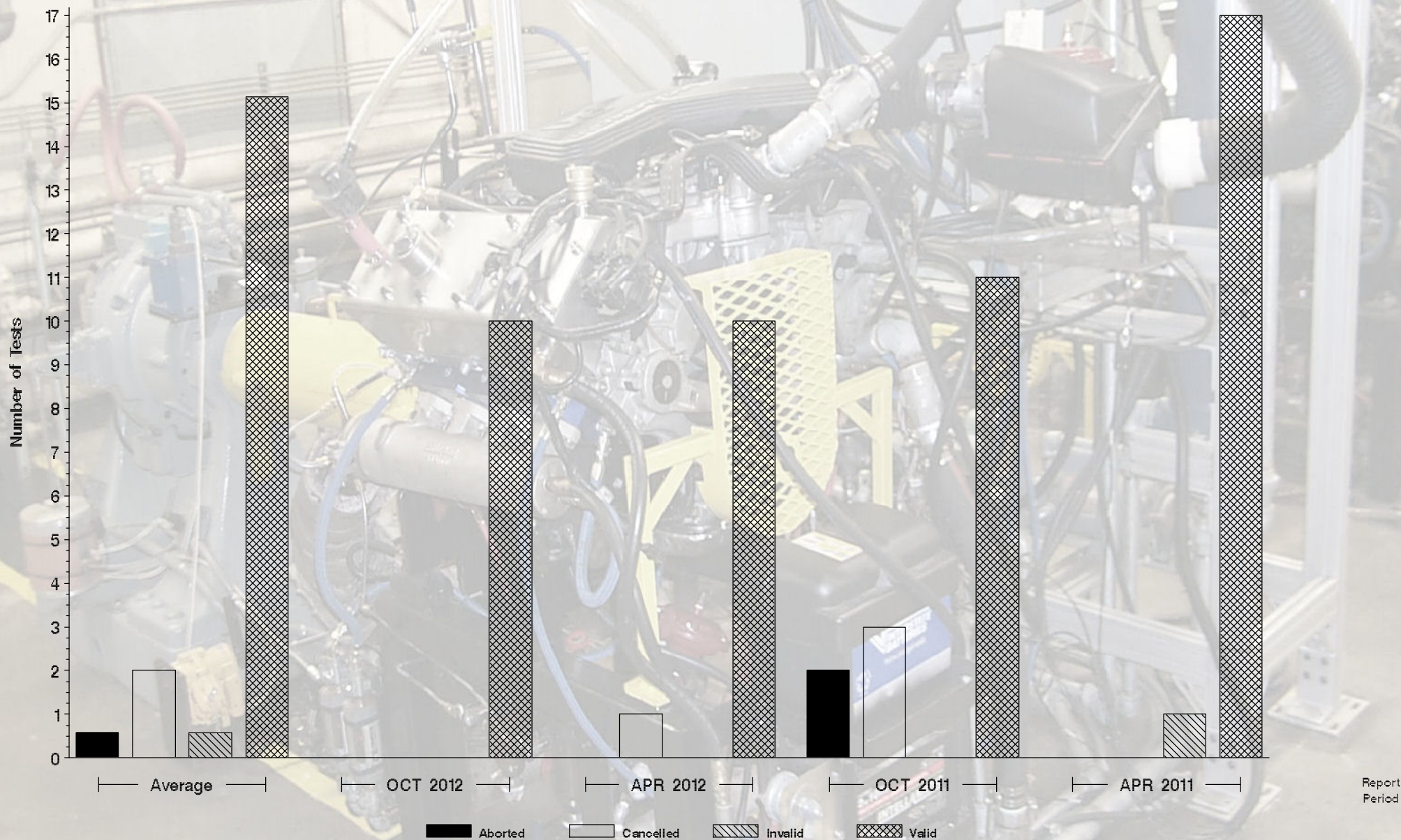


# Monitoring Agency

6555 Penn Avenue, Pittsburgh, PA 15206

<https://acc-ma.org>

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Status of Reported Tests



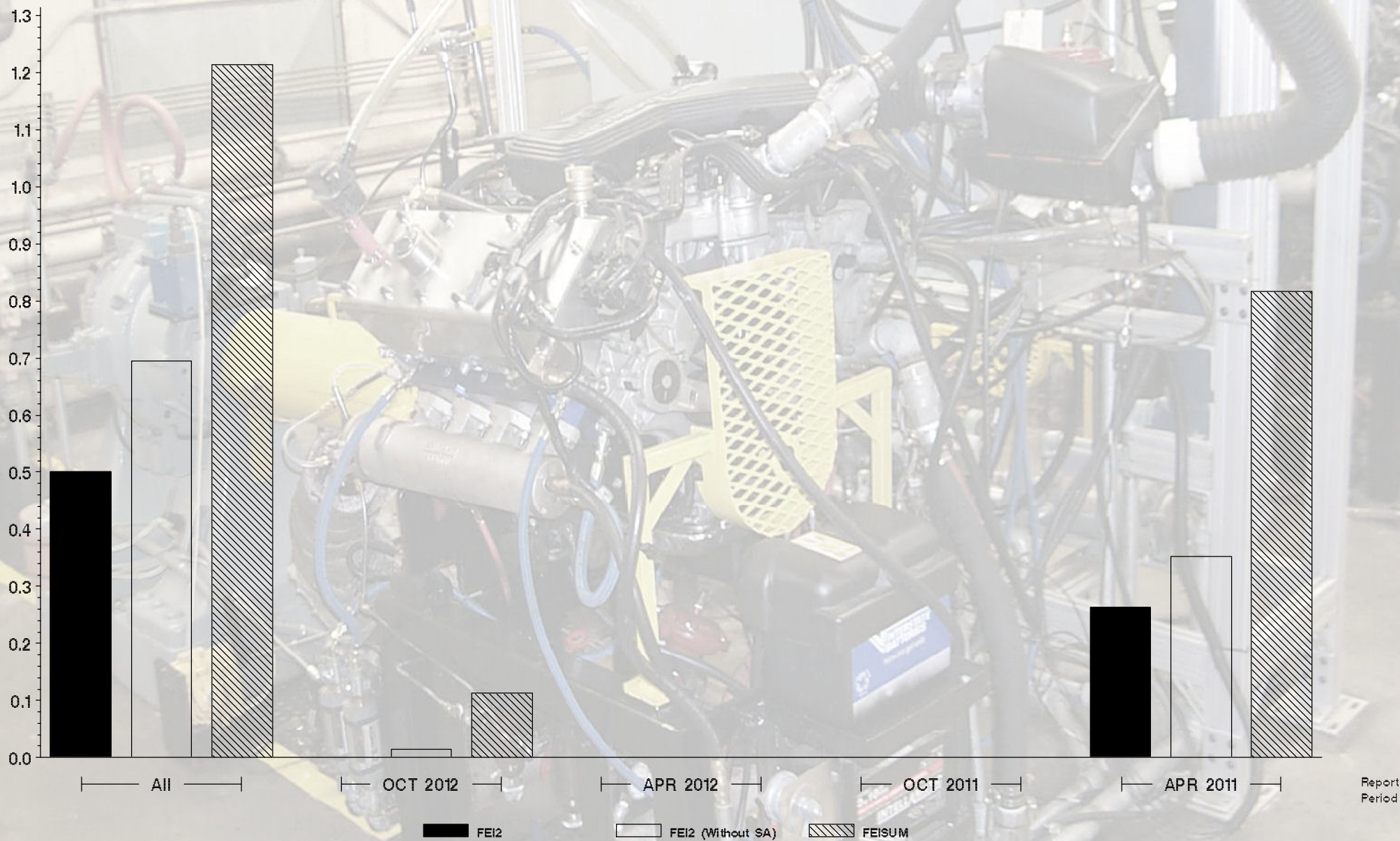


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VID vis grades other than 0W-20, 5W-20, 0W-30, or 5W-30  
Candidate Precision as Represented by Pooled S





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