

Proposed PC-10 Test Fuel Specification

| Property | Specification | Test Method |
|----------------------------------|---|--------------|
| Addition of additives | None allowed <u>except</u> lubricity additive | |
| Distillation Range, °F | | ASTM D 86 |
| 10% | | |
| 50% | | |
| 90% | 560 – 630 | |
| Endpoint | | |
| Specific Gravity | 0.840 – 0.855 | ASTM D 4052 |
| API Gravity | 34 – 37 | ASTM D 4052 |
| Corrosion, 3 h at 50 °C | 1 max | ASTM D 130 |
| Sulfur, ppm | 7 – 15 | ASTM D 5453 |
| Flash Point, °F | 130 min | ASTM D 93 |
| Pour Point, °F | 0 max | ASTM D 97 |
| Cloud Point, °F | Report | ASTM D 2500 |
| Viscosity at 40 °C, cSt | 2.0 – 2.6 | ASTM D 445 |
| Ash, wt % | 0.005 max | ASTM D 482 |
| Carbon Residue on 10% Bottoms | 0.35 max | ASTM D 524 |
| Net Heat of Combustion | Report | ASTM D 3338 |
| Water and Sediment, vol % | 0.05 max | ASTM D 2709 |
| Total Acid Number | 0.05 max | ASTM D 664 |
| Strong Acid Number | 0 max | ASTM D 664 |
| Cetane Index | Report | ASTM D 976 |
| Cetane Number | 43 – 47 | ASTM D 613 |
| Accelerated Stability, mg/100 mL | 1.5 max | ASTM D 2274 |
| Composition | | |
| Aromatics, wt% | 26 – 31.5 | ASTM D 5186 |
| Olefins, vol% | Report | ASTM D 1319 |
| Saturates, vol % | Report | ASTM D 1319 |
| *SLBOCLE, g | *3100 min | *ASTM D 6078 |

* May be altered to be consistent with soon to be released CARB or ASTM diesel fuel specifications.