

### Ultra-Low Sulfur Diesel (ULSD)

| Property   | Test Method           | Minimum          | Maximum |
|--|-----------------------|------------------|---------|
| Flash Point, °F  | ASTM D93              | 126              |         |
| Water and Sediment, Vol%   | ASTM D2709            |                  | 0.05    |
| Distillation Temperature, °F, 90 Vol% recovered                                | ASTM D86              | 539.6            | 640.4   |
| Kinematic Viscosity, centistokes @ 40°C  | ASTM D445             | 1.9              | 4.1     |
| Ash, % mass  | ASTM D482             |                  | 0.01    |
| Sulfur, mg/kg  | ASTM D7039            |                  | 15.0    |
| Copper Strip Corrosion Rating, max (3 hours at a minimum temperature of 122°F) | ASTM D130             |                  | No. 3   |
| Calculated Cetane index by D4737 Procedure A, min                              | ASTM D4737            | 40.              |         |
| Cetane, Petrospec, min   | Variant of ASTM D6277 | 40.              |         |
| Cloud Point, °F  | ASTM D2500            | Varies by Season |         |
| Ramsbottom Carbon Residue on 10% Distillation Residue, % mass                  | ASTM D524             |                  | 0.35    |
| Lubricity HFRR @ 140°F, micron   | ASTM D6079            |                  | 520     |
| Conductivity, Conductivity units (C.U.) <sup>2</sup>                           | ASTM D2624/D4308      | 25               |         |

<sup>A</sup> If used for tax exempt purposes, fuel required to have enough Solvent Red 164 dye to be visually apparent. Must meet the standard of 3.9 lbs. Solvent Red 26 per thousand barrels product.

<sup>B</sup> The below schedule represents fluidity of the fuel at Continental Refining Company's terminal in Somerset, KY.

Cloud Point – October 1<sup>st</sup> through March 31<sup>st</sup>                      Maximum: -9°C (+15°F)

Cloud Point – April 1<sup>st</sup> through September 30<sup>th</sup>                      Maximum: -7°C (+20°F)

Pour Point – October 1<sup>st</sup> through March 31<sup>st</sup>                      Maximum: -18°C (0°F)

Pour Point – April 1<sup>st</sup> through September 30<sup>th</sup>                      Maximum: -12°C (+10°F)

<sup>C</sup> Conductivity is measured at the time and temperature of delivery.