

Intertek Caleb Brett

As per some Xbee users' request, it has been decided to compare a heating fuel in compliance with the norm CSR 441 to the same fuel treated with Xbee enzyme biotechnology at a ratio of 4000:1.

| Tests | Methods | Results | | | | Units | Limits |
|---------------------------------|-----------------|------------------|-----------------|-------------------|-----------------|-------------|-------------|
| | | w/o aft. 1 month | w/ aft. 1 month | w/o aft. 6 months | w/aft. 6 months | | |
| Density at 15°C | NF EN ISO 12185 | 0.8532 | 0.8532 | 0.8534 | 0.8534 | Kg/m3 | 0.830-0.880 |
| Distillation | NF EN ISO 3405 | | | | | | |
| Condensed at 250°C | NF EN ISO 3405 | 38.8 | 38.7 | 38.8 | 39.3 | % (v/v) | 65 max |
| Condensed at 350°C | NF EN ISO 3405 | 88.9 | 88.8 | 91.4 | 88.9 | % (v/v) | 85 mini |
| Viscosity at 20°C | NF EN ISO 3104 | 4.057 | 4.068 | 4.075 | 4.044 | cSt | 9.5 max |
| Sulfur | NF EN ISO 20846 | 0.13 | 0.14 | 0.14 | 0.14 | % (m/m) | 0.2 max |
| Water | NF EN ISO 12937 | 75 | 80 | 60 | 64 | mg/kg | 200 max |
| Cetane index measured | ASTM D 6890 | 42.8 | 42.9 | 43.8 | 43.4 | N/A | 40.0 mini |
| Carbon residue | NF EN ISO 10370 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | % (m/m) | 0.35 max |
| Oxidation stability | NF EN ISO 12205 | 5 | 4 | 5 | 3 | g/m3 | 25 max |
| Flash Point | T 60-103 | 66 | 67 | 64 | 64 | °C | 55 mini |
| Pour Point | NF EN 23015 | -3 | -3 | -3 | -3 | °C | +2 max |
| CFPP | NF EN 116 | -6 | -7 | -6 | -7 | °C | -4 max |
| Electrical conductivity at 20°C | ISO 6297 | 195 | 190 | 240 | 240 | pS/m | 150 mini |
| Bacterial test | NF M 07070 | | | | | - | |
| Aeroby bacteria | NF M 07070 | none | none | none | none | - | none |
| Yeasts | NF M 07070 | none | none | none | none | calculation | none |
| Molds | NF M 07070 | none | none | none | none | calculation | none |
| Aspect/Color | Visual | C & L / red | C & L / red | C & L / red | C & L / red | N/A | C & L / red |
| Flow Point | NF T 60-105 | -30 | -33 | -33 | -33 | °C | -9 max |
| Existing Sediment | NF M 07-020 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | % (m/m) | 0.10 max |

Certification



www.afaq.org

ISO 9001:2000



www.iso.org



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