Report form for late reported test results of **sample #21250**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Determination | Unit | Reference method \*) | Actual method used \*) | | Unrounded  Result \*) | Rounded  result  *cfr.* used standard \*) |
| Total Acid Number \*\*\*) | mgKOH/g | D664-A |  | |  |  |
| **Aniline Point** | **method/prodecure used: A / B / C / D / E / other \*\*)** | | | | | |
| Aniline Point of n-heptane | °C |  |  | |  |  |
| Aniline Point | °C | D611 |  | |  |  |
| Asphaltenes | %M/M | IP143 |  | |  |  |
| Carbon Residue (Micro method) | %M/M | D4530 |  | |  |  |
| Density at 15°C | kg/m3 | ISO12185 |  | |  |  |
| **Flash Point PMcc** | **method/prodecure used: A / B \*\*)** | | | | | |
| Flash Point PMcc | °C | D93-B |  |  | |  |
| Kinematic Viscosity at 50°C | mm2/s | D445 |  |  | |  |
| Kinematic Viscosity at 100°C | mm2/s | D445 |  |  | |  |
| **Nitrogen** | **method/prodecure used: Gravimetric / Volumetric \*\*)** | | | | | |
| Nitrogen | mg/kg | D5762 |  |  | |  |
| Pour Point Manual | °C | D97 |  |  | |  |
| Pour Point Automated 3°C interval | °C | D5950 |  |  | |  |
| Total Sulfur | %M/M | D4294 |  |  | |  |

\*) Please see the letter of instructions before the start of the tests at [www.kpmd.co.uk/sgs-iis/](http://www.kpmd.co.uk/sgs-iis/)

\*\*) Please circle the right option

\*\*\*) Please answer the Additional Questions about Acid Number (ASTM D664) if the determination is performed (see Additional Questions on the final page)

**This table continues on the next page.**

Report form for late reported test results of **sample** **#21250 – continued**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Determination | Unit | Reference method \*) | Actual method used \*) | Unrounded  Result \*) | Rounded  result  *cfr.* used standard \*) |
| **Simulated Distillation** |  |  |  |  |  |
| Initial Boiling Point | °C | D6352 |  |  |  |
| 10% recovered | °C | D6352 |  |  |  |
| 30% recovered | °C | D6352 |  |  |  |
| 50% recovered | °C | D6352 |  |  |  |
| 70% recovered | °C | D6352 |  |  |  |
| 90% recovered | °C | D6352 |  |  |  |
| Final Boiling Point | °C | D6352 |  |  |  |
| **Distillation performed at 10 mmHg but reported as AET \*\*)** | | | | | |
| Initial Boiling Point as AET | °C | D1160 |  |  |  |
| 10% recovered as AET | °C | D1160 |  |  |  |
| 30% recovered as AET | °C | D1160 |  |  |  |
| 50% recovered as AET | °C | D1160 |  |  |  |
| 70% recovered as AET | °C | D1160 |  |  |  |
| 90% recovered as AET | °C | D1160 |  |  |  |
| Final Boiling Point as AET | °C | D1160 |  |  |  |

\*) Please see the letter of instructions before the start of the tests at [www.kpmd.co.uk/sgs-iis/](http://www.kpmd.co.uk/sgs-iis/)

\*\*) Please perform the distillation as near as possible to 10 mmHg and report all temperatures at 760 mmHg (Atmospheric Equivalent Temperatures)

**This report form continues on the next page.**

Report form for late reported test results of **sample** **#21251**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Determination | Unit | Reference method \*) | Actual method used \*) | Unrounded  Result \*) | Rounded  result  *cfr.* used standard \*) |
| Elements |  | | | | |
| Aluminum as Al | mg/kg | IP501 |  |  |  |
| Silicon as Si | mg/kg | IP501 |  |  |  |
| Sum Aluminum and Silicon | mg/kg |  |  |  |  |
| Arsenic as As | mg/kg |  |  |  |  |
| Copper as Cu | mg/kg | IP621 |  |  |  |
| Iron as Fe | mg/kg | IP501 |  |  |  |
| Nickel as Ni | mg/kg | IP501 |  |  |  |
| Sodium as Na | mg/kg | IP501 |  |  |  |
| Vanadium as V | mg/kg | IP501 |  |  |  |
| Calcium as Ca | mg/kg | IP501 |  |  |  |
| Phosphorus as P | mg/kg | IP501 |  |  |  |
| Zinc as Zn | mg/kg | IP501 |  |  |  |

\*) Please see the letter of instructions before the start of the tests at [www.kpmd.co.uk/sgs-iis/](http://www.kpmd.co.uk/sgs-iis/)

**Additional Questions**

**About Total Acid Number (ASTM D664):**

1. What was the volume of the titration solvent?

* 60 mL
* 125 mL

1. How was the end point determined?

* Inflection Point
* Buffer End Point pH 10
* Buffer End Point pH 11

1. Remarks on Additional Questions:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_