

## Crude Monitor.ca Mini-Assay Program

[www.crudemonitor.ca](http://www.crudemonitor.ca)

**Crude Name:** Cold Lake  
**Sample Location:** Hardisty, AB  
**Assay Month:** October 2006

| Whole Crude          |        | Naphtha (IBP to 190oC)    |        |
|----------------------|--------|---------------------------|--------|
| Density (kg/m3):     | 933.4  | Density (kg/m3):          | 694.8  |
| API gravity (oAPI):  | 19.97  | API gravity (oAPI):       | 71.98  |
| Sulphur (wt%):       | 3.74   | Sulphur (wt%):            | 0.10   |
| Nitrogen (mass ppm): | 1894.4 | Nitrogen (mass ppm):      |        |
|                      |        | Mass % recovery:          | 15.88  |
|                      |        | Volume % recovery:        | 21.22  |
|                      |        | Distillate (190 to 343oC) |        |
|                      |        | Density (kg/m3):          | 882.1  |
|                      |        | API gravity (oAPI):       | 28.77  |
|                      |        | Sulphur (wt%):            | 1.57   |
|                      |        | Nitrogen (mass ppm):      | 87.8   |
|                      |        | Mass % recovery:          | 14.85  |
|                      |        | Volume % recovery:        | 15.63  |
|                      |        | Gas Oil (343 to 527oC)    |        |
|                      |        | Density (kg/m3):          | 957.4  |
|                      |        | API gravity (oAPI):       | 16.17  |
|                      |        | Sulphur (wt%):            | 3.24   |
|                      |        | Nitrogen (mass ppm):      | 1287.8 |
|                      |        | Mass % recovery:          | 24.09  |
|                      |        | Volume % recovery:        | 23.37  |
|                      |        | Residuum (527oC+)         |        |
|                      |        | Density (kg/m3):          | 1054.9 |
|                      |        | API gravity (oAPI):       | 2.52   |
|                      |        | Sulphur (wt%):            | 6.03   |
|                      |        | Nitrogen (mass ppm):      | 4520.0 |
|                      |        | Viscosity (cSt at 100oC): | 64,200 |
|                      |        | Mass % recovery:          | 45.18  |
|                      |        | Volume % recovery:        | 39.78  |

**Temperature conversion**

| Centigrade | Fahrenheit |
|------------|------------|
| 190        | 375        |
| 343        | 650        |
| 527        | 980        |

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