

1X62-CH-01

Customer: PTRHTF30038
 BUILDING PRODUCTS OF CANADA
 9510 ST PATRICK STREET
 LASALLE, QC H8R 1R9 Canada
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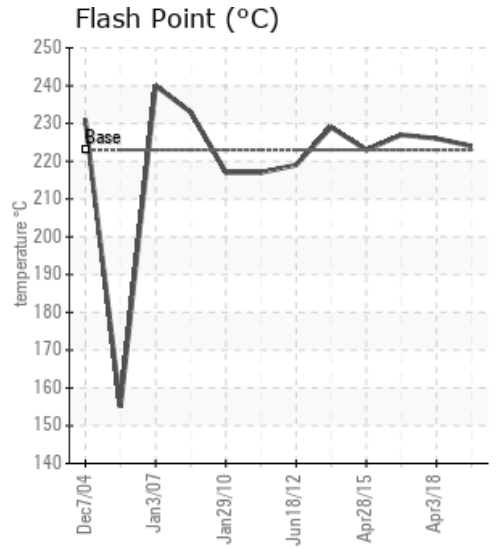
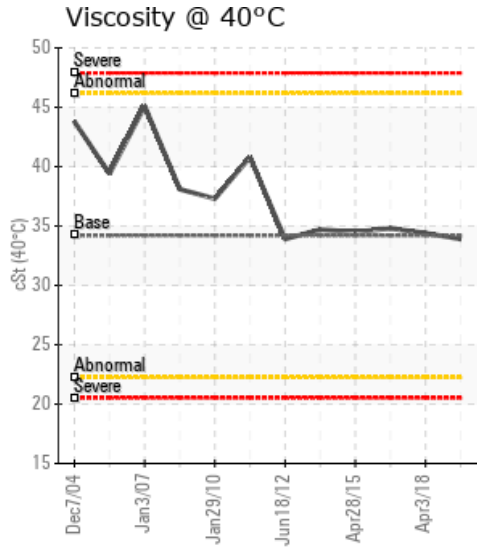
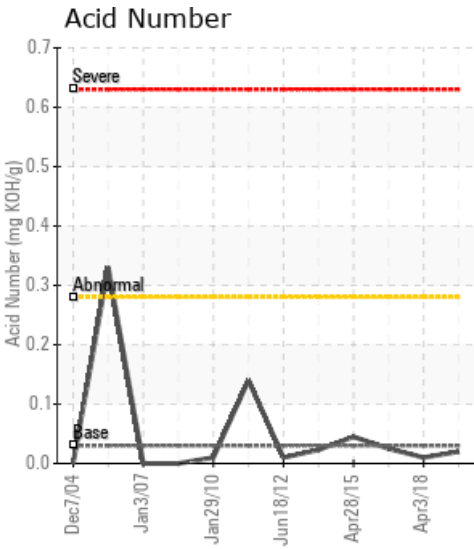
System Information
 System Volume: 1215 ltr
 Bulk Operating Temp: 227F / 108C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA PETRO-THERM
 Make: CHROMALOX

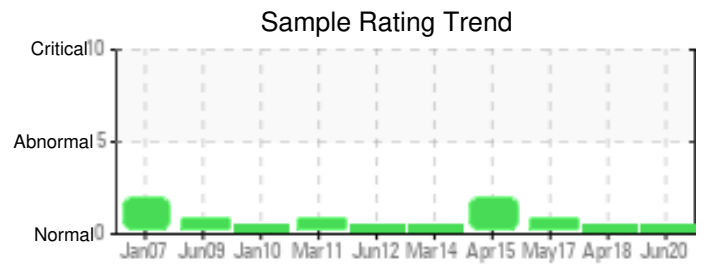
Sample Information
 Lab No: 02357794
 Analyst: Pierre Castagne
 Sample Date: 06/03/20
 Received Date: 06/04/20
 Completed: 06/08/20
 Pierre Castagne
 pierre.castagne@petrocanadalsp.com

Recommendation: Il y a présence de soufre, assurez-vous de faire tout transvasage du fluide caloporteur à partir d'une pompe dédié à cet effet. L'huile est OK, pour usage continu. Reprendre un échantillon à la date prévue.

Comments:

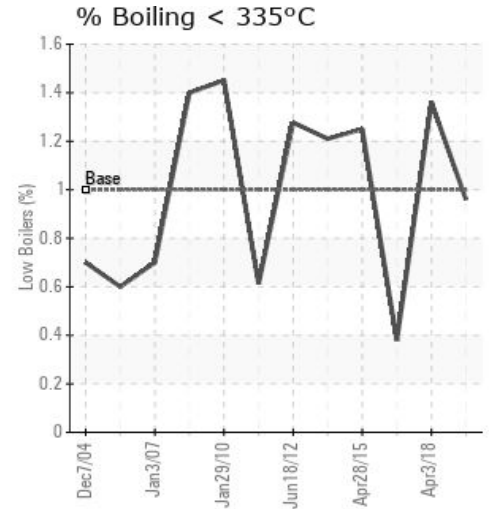
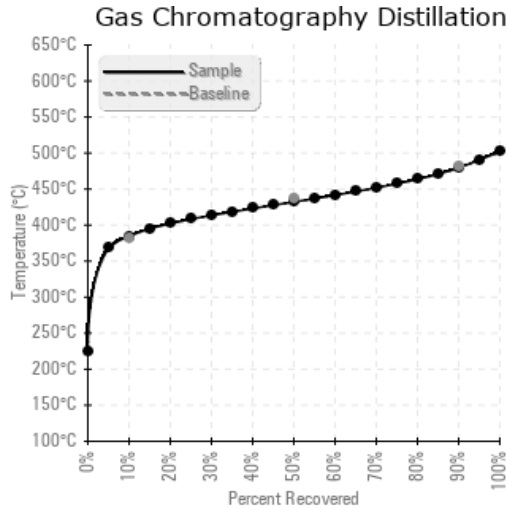
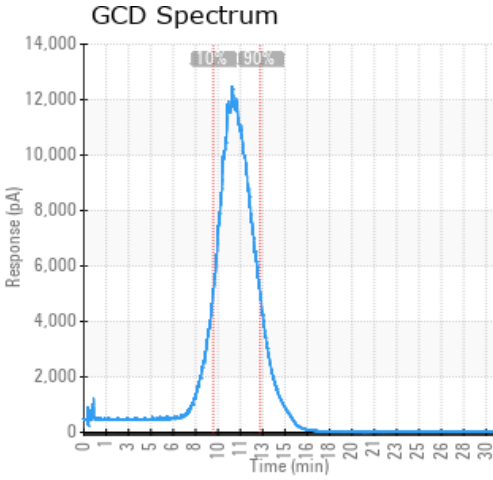
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|---------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 06/03/20 | 06/04/20 | 3m | CIRCUIT | 435 / 224 | 50.5 | 33.9 | 0.02 | 0.058 | 724 / 385 | 810 / 432 | 895 / 479 | 0.96 |
| 04/03/18 | 05/03/18 | 0m | | 439 / 226 | 8.0 | 34.4 | 0.01 | 0.041 | 717 / 381 | 811 / 433 | 904 / 485 | 1.36 |
| 05/02/17 | 05/12/17 | 0m | ENTREE DE LA POMPE | 441 / 227 | 11.8 | 34.8 | 0.025 | 0.021 | 724 / 385 | 816 / 435 | 926 / 496 | 0.38 |
| 04/28/15 | 05/01/15 | 1m | VALVE SOUS TUYAN PP | 433 / 223 | 21.8 | 34.5 | 0.045 | 0.061 | 715 / 379 | 814 / 434 | 940 / 504 | 1.25 |
| 03/17/14 | 03/21/14 | 1m | | 444 / 229 | 15.1 | 34.7 | 0.023 | 0.133 | 715 / 380 | 812 / 434 | 913 / 489 | 1.21 |
| Baseline Data | | | | 433 / 223 | | 34.2 | 0.03 | | 720 / 382 | 817 / 436 | 900 / 482 | 1.00 |





| Sample Date | Iron | Chromium | Nickel | Aluminum | Copper | Lead | Tin | Cadmium | Silver | Vanadium | Silicon | Sodium | Potassium | Titanium | Molybdenum | Antimony | Manganese | Lithium | Boron | Magnesium | Calcium | Barium | Phosphorus | Zinc |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 06/03/20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04/03/18 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05/02/17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04/28/15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03/17/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baseline Data | | | 0 | 0 | | | | | | 0 | | | 0 | 0 | | | | | 0 | | | | 0 | |

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

| | |
|----------|---|
| 04/03/18 | Reprendre un échantillon à intervalle normal |
| 05/02/17 | On note une légère augmentation des Fractions Lourdes (GCD @90%), une augmentation des Fractions Lourdes engendre une augmentation de la viscosité et favorise la formation de dépôt de carbone. (GCD) 90% Distillation Point is marginally high. |
| 04/28/15 | Les fractions légères sont bases (GCD 10%), ainsi que les fractions lourdes sont très élevé (GCD 90%), nous vous recommandons de ventiller (GCD) 90% Distillation Point is severely high. |
| 03/17/14 | Les propriétés de l'huile semblent normales. SVP continuez à échantillonner les systèmes régulièrement |

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