

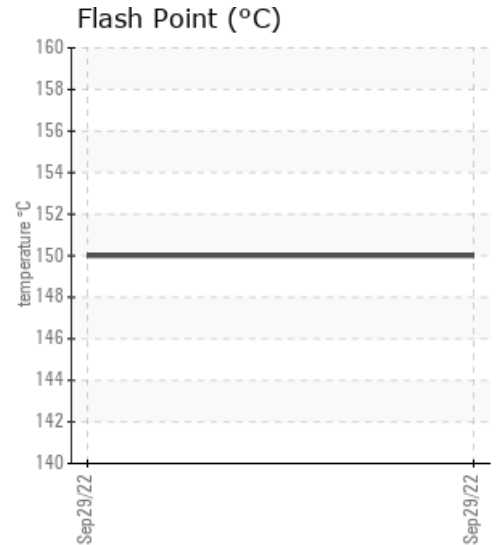
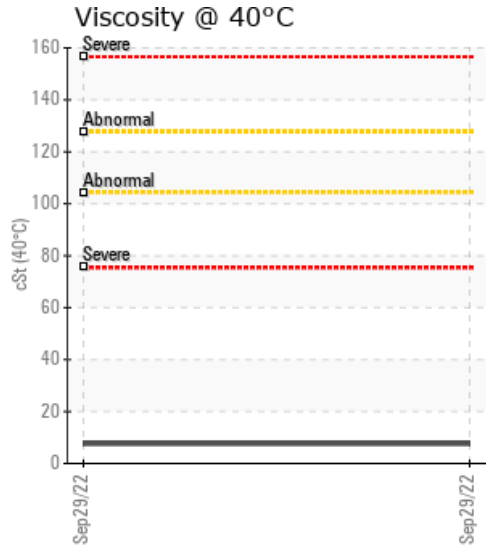
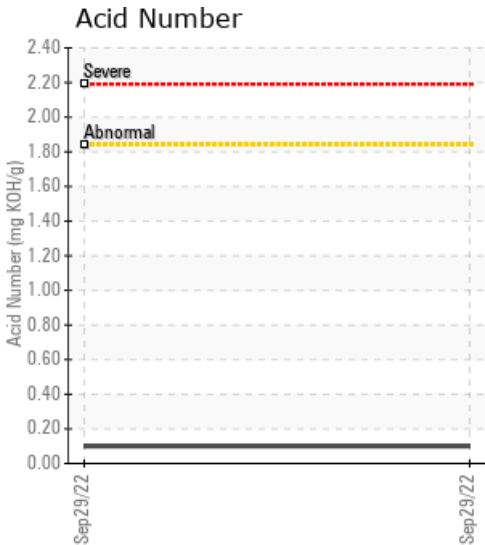
[SUNCOR MACKAY RIVER / NAJIB JOMAA] 900 FUEL GAS SYSTEM EXCHANGER

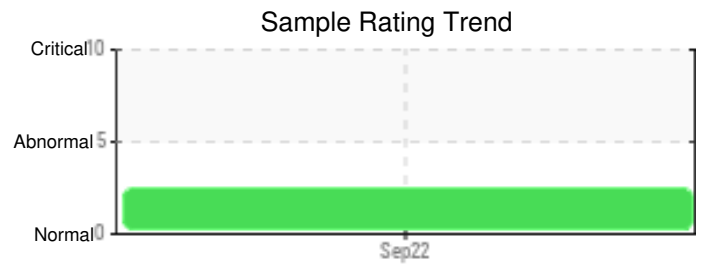
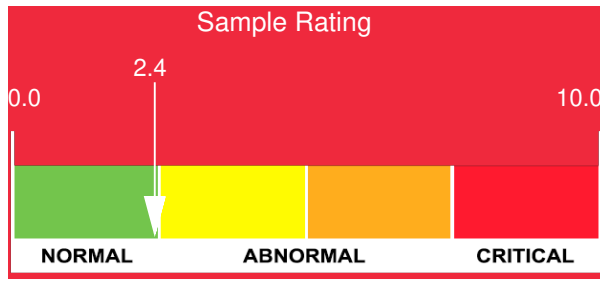
| Customer: PTRHTF20196 | System Information | Sample Information |
|--|--|---|
| SUNCOR ENERGY MACKAY RIVER PROJECT DOCK M FORT MCMURRAY, AB T9H 4W1 Canada Attn: Nicolas Zambrano Tel: (403)519-7266 | System Volume: 0 ltr Bulk Operating Temp: 302F / 150C Heating Source: Blanket: Fluid: N/A Make: | Lab No: 02516244 Analyst: Terry Veenstra Sample Date: 09/29/22 Received Date: 10/14/22 Completed: 10/20/22 Terry Veenstra terry.veenstra@HFSinclair.com |

Recommendation: *** This appears to be a mix of fuel and heat transfer fluid. There is an off-scale peak around C20-24 ***

Comments: COC Flash Point is severely high. Visc @ 40°C is severely low.

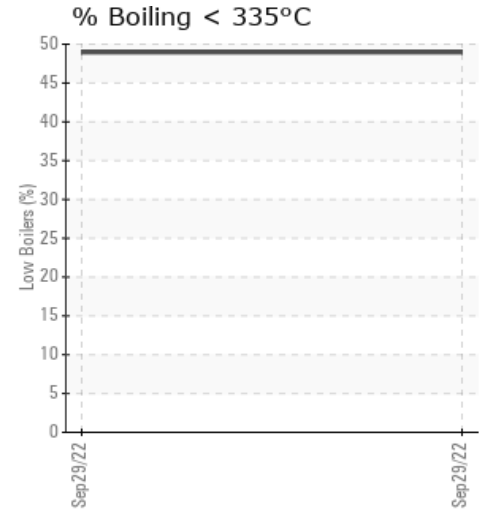
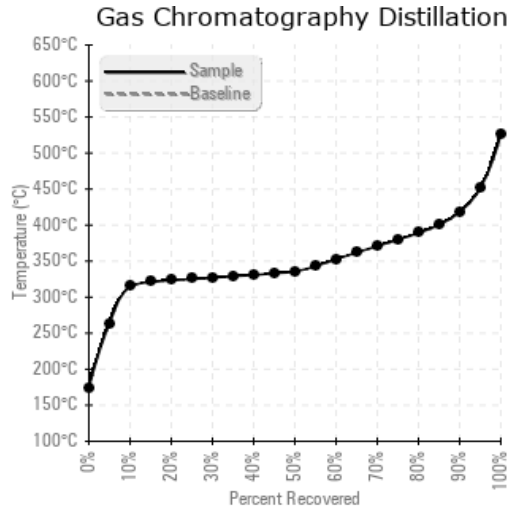
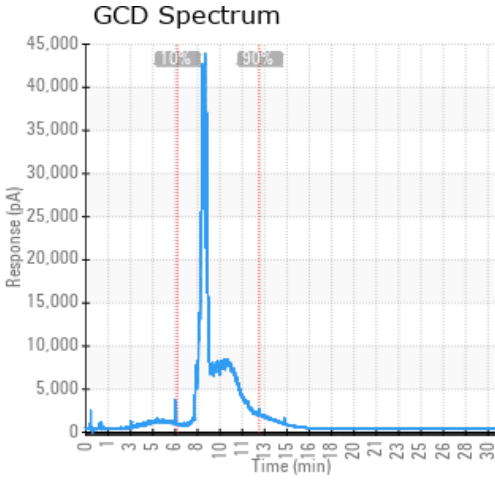
| Sample Date | Received Date | Fluid Age | Sample Location | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10% | GCD 50% | GCD 90% | GCD % < 335°C |
|---------------|---------------|-----------|-----------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
| | mm/dd/yy | | | °F/°C | ppm | cSt | mg/KOH/g | %wt | °F/°C | °F/°C | °F/°C | % |
| 09/29/22 | 10/14/22 | 0.0y | | 302 / 150 | 28.6 | 7.6 | 0.10 | 0.216 | 599 / 315 | 636 / 335 | 784 / 418 | 48.96 |
| Baseline Data | | | | 32 / 0 | | | | | | | | |





| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 09/29/22 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 |
| Baseline Data | | | | | | | | | | | | | 0 | | | | | | 0 | | | | 0 | |

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



Historical Comments

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