

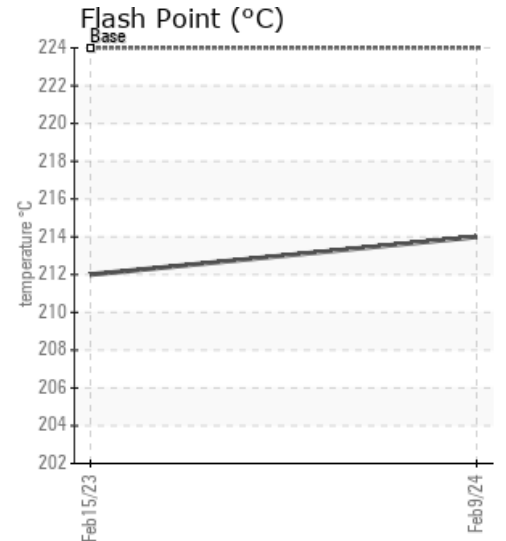
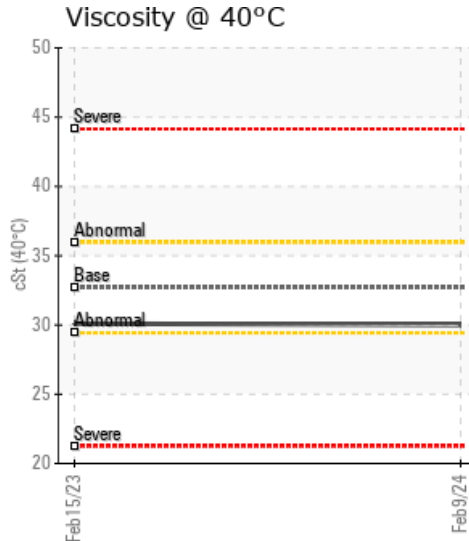
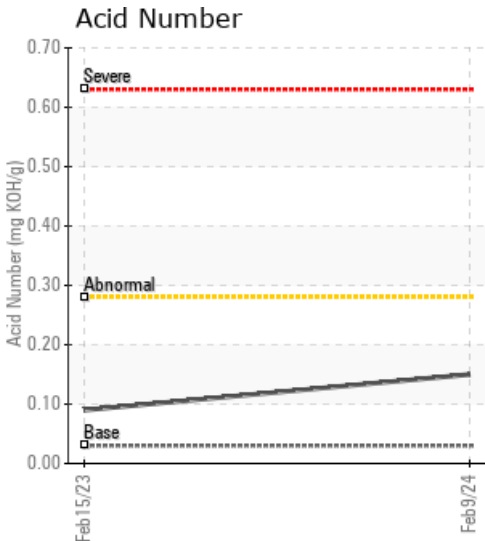
## PITCH PLANT HTF WHARF SOUTH

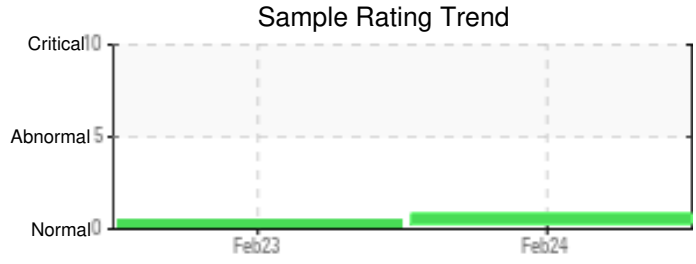
| Customer: PTRHTF60002   | System Information   | Sample Information  |
|---|--|---|
| BOYNE SMELTERS LTD-RIO TINTO<br>HANDLEY DRIVE<br>QUEENSLAND<br>BOYNE ISLAND, QUE 4680 AU<br>Attn: Ron Cole<br>Tel:<br>E-Mail: ron.cole@riotinto.com | System Volume: 5000 ltr<br>Bulk Operating Temp: 464F / 240C<br>Heating Source:<br>Blanket:<br>Fluid: PETRO CANADA CALFLO AF<br>Make: UNIQUIP | Lab No: 02625850<br>Analyst: Philip Riley<br>Sample Date: 02/09/24<br>Received Date: 04/01/24<br>Completed: 04/16/24<br>Philip Riley<br>philip.riley@HFSinclair.com |

Recommendation: Oil in good condition and fit for further use. Please resample at normal frequency

Comments: (GCD) 90% Distillation Point is marginally high.

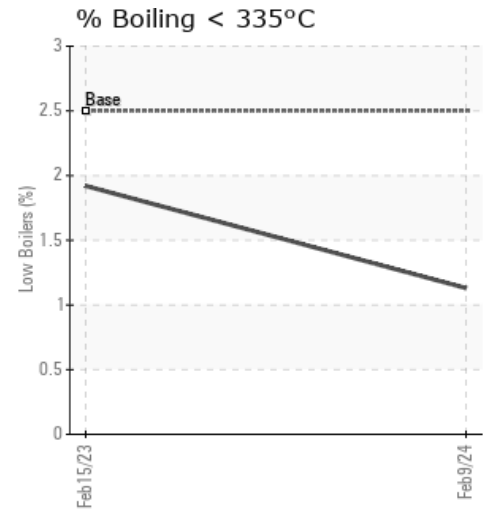
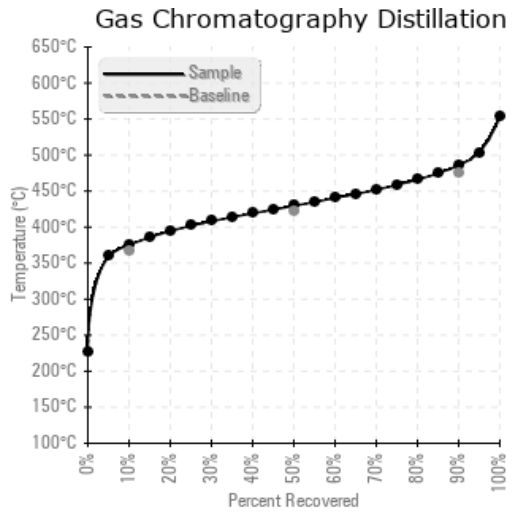
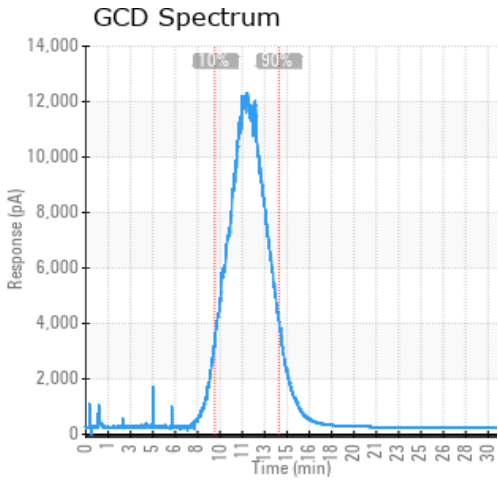
| Sample Date   | Received Date | Fluid Age | Sample Location      | Flash Point (COC) | Water (KF) | Viscosity (40°C) | Acid Number | Solids | GCD 10%   | GCD 50%   | GCD 90%   | GCD % < 335°C |
|---------------|---------------|-----------|----------------------|-------------------|------------|------------------|-------------|--------|-----------|-----------|-----------|---------------|
|               | mm/dd/yy      |           |                      | °F/°C             | ppm        | cSt              | mg/KOH/g    | %wt    | °F/°C     | °F/°C     | °F/°C     | %             |
| 02/09/24      | 04/01/24      | 0.0y      | inline sample statio | 417 / 214         | 72         | 30.0             | 0.15        | 0.066  | 707 / 375 | 805 / 430 | 906 / 486 | 1.13          |
| 02/15/23      | 06/02/23      | 0.0y      | RETURN LINE          | 414 / 212         | 186.9      | 30.1             | 0.09        | 0.041  | 699 / 370 | 799 / 426 | 899 / 482 | 1.92          |
| Baseline Data |               |           |                      | 435 / 224         |            | 32.7             | 0.03        |        | 693 / 367 | 790 / 421 | 887 / 475 | 2.5           |





| 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 |
|---------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|---------|--------|-----------|----------|------------|----------|-----------|---------|-------|-----------|---------|--------|------------|------|
| 02/09/24      | 0    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 20         | 0    |
| 02/15/23      | 1    | 0        | 0      | 0        | 0      | 0    | 0   | 0       | 0      | 0        | 0       | 0      | 0         | 0        | 0          | 0        | 0         | 0       | 0     | 0         | 0       | 0      | 24         | 0    |
| Baseline Data |      |          | 0      | 0        |        |      |     |         |        | 0        |         | 0      | 0         |          |            |          |           | 0       |       |           |         |        | 270        |      |

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



### Historical Comments

|          |   |
|----------|---|
| 02/15/23 | Product meets all key parameters and fit for further use. Please resample at normal frequency |
|          |   |
|          |   |
|          |   |

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