

ENERGY PLANT

Customer: PTRHTF20080

WEST FRASER TIMBER CO LTD

Hwy 584 Bag #1

SUNDRE, AB T0M 1X0 Canada

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System Information

System Volume: 110000 ltr

Bulk Operating Temp: 495F / 257C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: DELTECH

Sample Information

Lab No: 02321006

Analyst: Gordon Susinski

Sample Date: 11/13/19 Received Date: 11/19/19

Completed: 11/22/19

225

220

21 210

205

200

Jun 19/09

0ct31/10

Jan 23/17

Recommendation: Results are normal. Resample at the next interval to monitor a reduction in the COC flash point, and the increase in the GCD % <335C.

Comments:

0.1

0.0

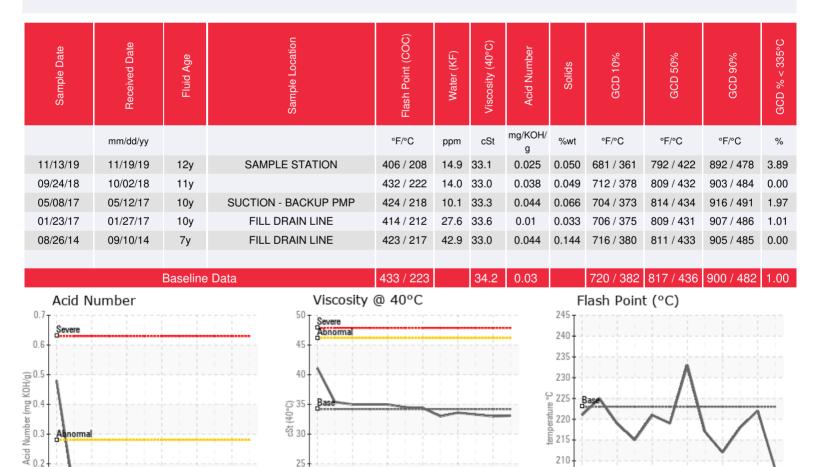
Base

Vov22/07

Jun 19/09

Oct31/10

Sep25/12



Vov22/07

(40°C)

₹ 30 .

25

20

Sep24/18

Abnorma

Jun 19/09

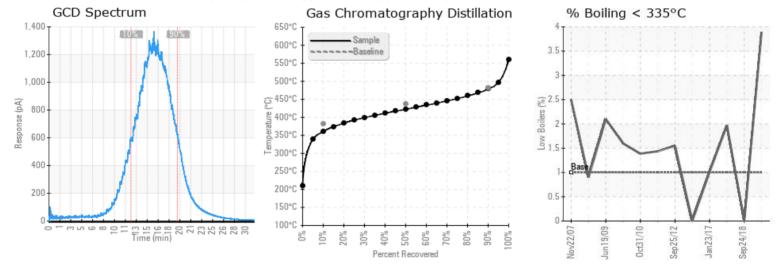
0ct31/10

Jan23/17

Sep24/18



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



| Historical Comments | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09/24/18 | Results are normal. |
| 05/08/17 | Note the initial boiling point reduction from previous samples. Although this result is within normal limits, the reduction in IBP should be noted. A lower initial boiling point indicates that low boilers maybe present in the sample. This condition is normally due to thermal degradation of the sample, however, there is no other analysis result to support that this degradation has taken place. This result can typically be corroborated by a lower flash point, which in this case it cannot. This leads us to believe that the result may be due to some other deviation? This may also be interpreted as the beginning of thermal degradation process of the system.Low boilers can lead to pump cavitation.All other results are within normal guidelines.We suggest re sampling in 3 months' time to corroborate the reduced IBP result. |
| 01/23/17 | Results are normal. Resample at the next PM interval. |
| 08/26/14 | Sample is in excellent condition. Sample again at the regular one year interval. |
| | |

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