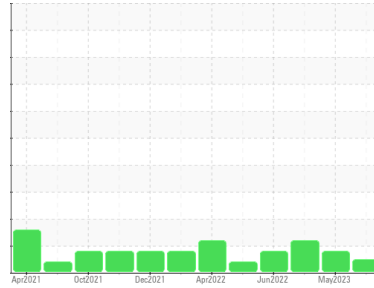


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Planer Mill/Package Maker 2**  
 Machine Id  
**[Planer Mill^Package Maker 2] PACKAGE MAKER 2 HPU**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA HYDREX AW 68 (126 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0111696</b>	PCA0079483	PCA0079414
Sample Date	Client Info	<b>13 Nov 2023</b>	11 May 2023	14 Feb 2023
Machine Age	mths Client Info	<b>0</b>	0	0
Oil Age	mths Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changd	Filtered
Sample Status		<b>NORMAL</b>	ATTENTION	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	<b>0</b>	0	<1
Chromium ppm	ASTM D5185m >20	<b>0</b>	0	0
Nickel ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium ppm	ASTM D5185m	<b>0</b>	0	0
Silver ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum ppm	ASTM D5185m >20	<b>&lt;1</b>	1	0
Lead ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Tin ppm	ASTM D5185m >20	<b>0</b>	0	0
Vanadium ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 0	<b>0</b>	0	0
Barium ppm	ASTM D5185m 0	<b>6</b>	0	0
Molybdenum ppm	ASTM D5185m 0	<b>0</b>	0	<1
Manganese ppm	ASTM D5185m 0	<b>0</b>	0	0
Magnesium ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Calcium ppm	ASTM D5185m 50	<b>51</b>	57	55
Phosphorus ppm	ASTM D5185m 330	<b>314</b>	346	321
Zinc ppm	ASTM D5185m 430	<b>403</b>	419	399
Sulfur ppm	ASTM D5185m 760	<b>796</b>	663	707

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>&lt;1</b>	1	<1
Sodium ppm	ASTM D5185m	<b>0</b>	0	<1
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water %	ASTM D6304 >0.05	<b>0.005</b>	0.004	0.007
ppm Water	ASTM D6304 >500	<b>52.2</b>	41.5	79.9

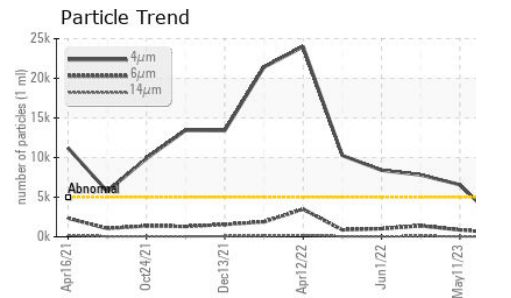
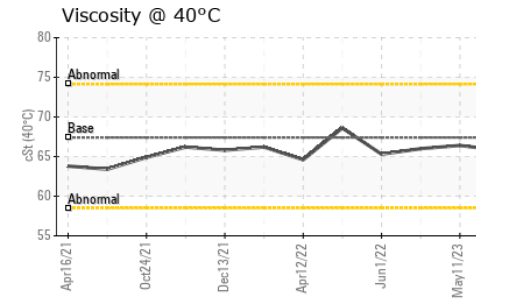
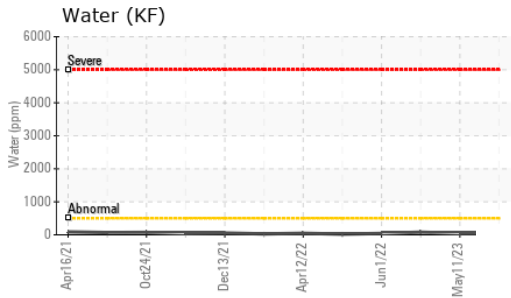
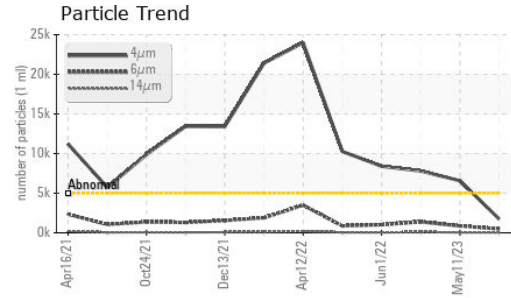
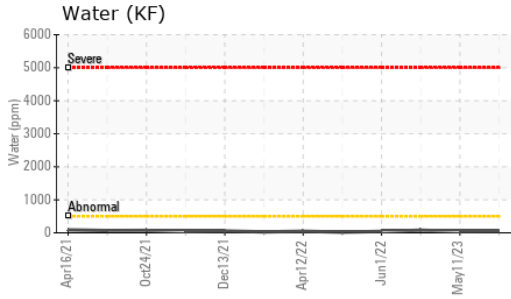
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>1741</b>	▲ 6573	▲ 7804
Particles >6µm	ASTM D7647 >1300	<b>481</b>	871	▲ 1396
Particles >14µm	ASTM D7647 >160	<b>39</b>	42	101
Particles >21µm	ASTM D7647 >40	<b>10</b>	12	28
Particles >38µm	ASTM D7647 >10	<b>1</b>	1	4
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>18/16/12</b>	▲ 20/17/13	▲ 20/18/14

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.60	<b>0.29</b>	0.29	0.32

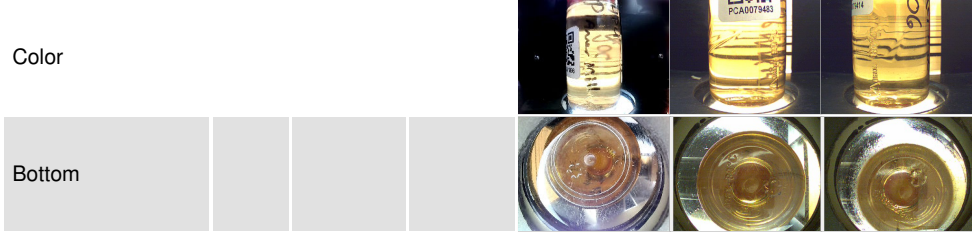
# OIL ANALYSIS REPORT



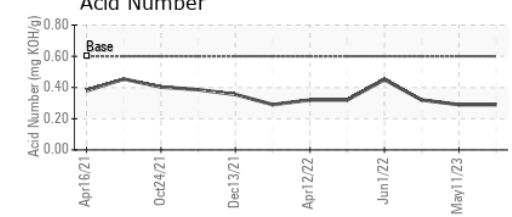
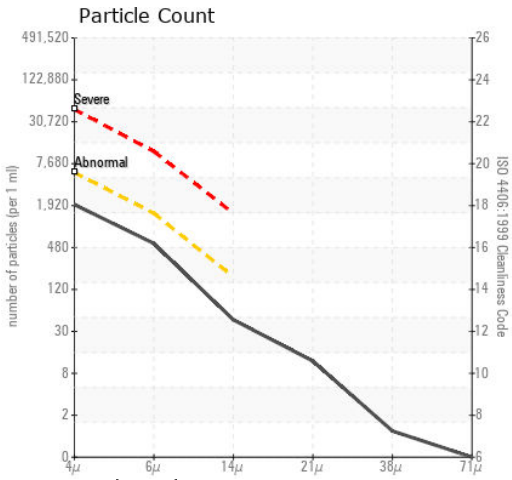
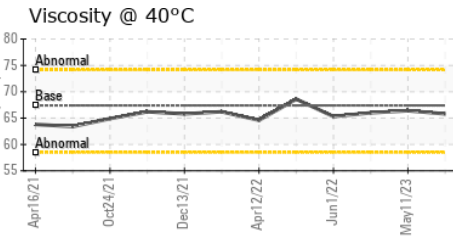
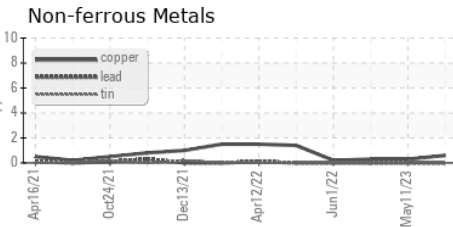
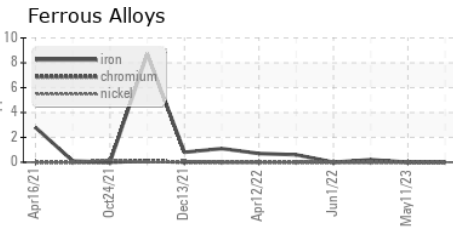
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	65.8	66.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111696 **Received** : 16 Nov 2023  
**Lab Number** : 06009640 **Diagnosed** : 17 Nov 2023  
**Unique Number** : 10743402 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**West Fraser Inc. - Armour Lumber Mill**  
 361 Federal Road, PO Box 57  
 Riegelwood, NC  
 US 28456  
 Contact: Jay Wilson  
 Jay.B.Wilson@westfraser.com  
 T: (910)627-3021  
 F: (910)655-9368

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)