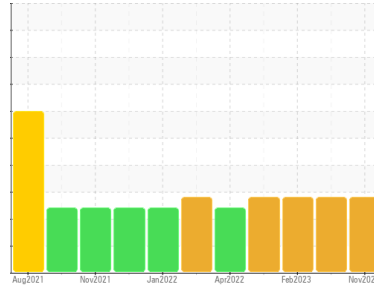




# PROBLEM SUMMARY

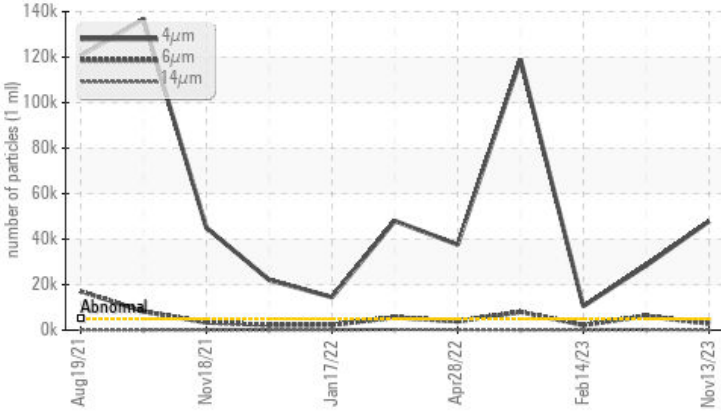
Area  
**Sawmill/Gang**  
 Machine Id  
**[Sawmill^Gang] SawGuide Unit Gang**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA PETROGLIDE 100 (200 GAL)**

Sample Rating Trend

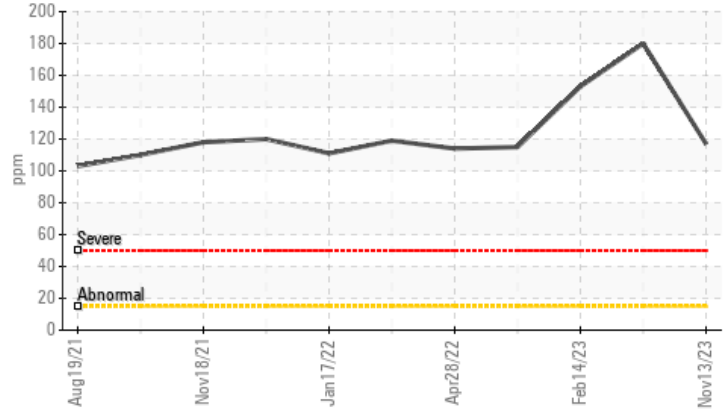


## COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Silicon (ppm)



## RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m >15	▲ 117	▲ 180	▲ 153
Particles >4µm		ASTM D7647 >5000	▲ 47816	▲ 28428	▲ 10522
Particles >6µm		ASTM D7647 >1300	▲ 2870	▲ 6230	▲ 2161
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ 23/19/14	▲ 22/20/14	▲ 21/18/13

Customer Id: WESRIE  
 Sample No.: PCA0111697  
 Lab Number: 06009645  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

## HISTORICAL DIAGNOSIS

### 11 May 2023 Diag: Don Baldrige

DIRT



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



### 14 Feb 2023 Diag: Don Baldrige

DIRT



No corrective action is recommended at this time. The oil was filtered at the time of sampling. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.

view report



### 01 Jun 2022 Diag: Don Baldrige

DIRT

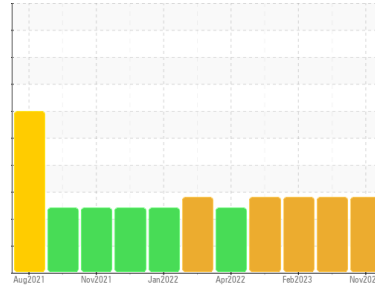


We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



Area  
**Sawmill/Gang**  
 Machine Id  
**[Sawmill^Gang] SawGuide Unit Gang**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA PETROGLIDE 100 (200 GAL)**



**DIAGNOSIS**

**Recommendation**  
 We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

**Fluid Condition**  
 The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0111697</b>	PCA0079396	PCA0079447
Sample Date	Client Info	<b>13 Nov 2023</b>	11 May 2023	14 Feb 2023
Machine Age	mths	Client Info	0	0
Oil Age	mths	Client Info	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changd	Filtered
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR METALS**

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

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	6	0
Molybdenum	ppm	ASTM D5185m	<1	<1
Manganese	ppm	ASTM D5185m	0	0
Magnesium	ppm	ASTM D5185m	2	2
Calcium	ppm	ASTM D5185m	100	131
Phosphorus	ppm	ASTM D5185m	33	18
Zinc	ppm	ASTM D5185m	13	4
Sulfur	ppm	ASTM D5185m 2500	2104	2346

**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 117	▲ 180
Sodium	ppm	ASTM D5185m	2	0
Potassium	ppm	ASTM D5185m >20	<1	2
Water	%	ASTM D6304 >0.05	0.007	0.013
ppm Water	ppm	ASTM D6304 >500	79.7	132.2

**FLUID CLEANLINESS**

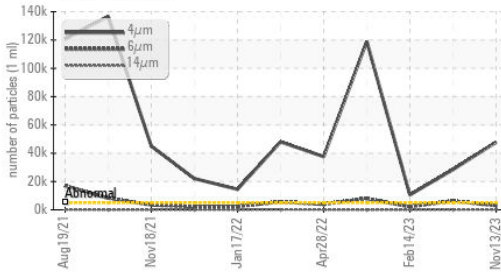
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 47816	▲ 28428	▲ 10522
Particles >6µm	ASTM D7647 >1300	▲ 2870	▲ 6230	▲ 2161
Particles >14µm	ASTM D7647 >160	82	153	51
Particles >21µm	ASTM D7647 >40	14	14	6
Particles >38µm	ASTM D7647 >10	1	0	1
Particles >71µm	ASTM D7647 >3	0	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/19/14	▲ 22/20/14	▲ 21/18/13

**FLUID DEGRADATION**

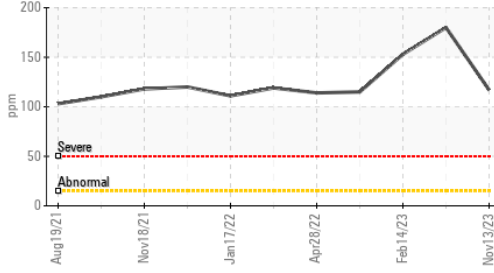
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 .2	0.156	0.116

# OIL ANALYSIS REPORT

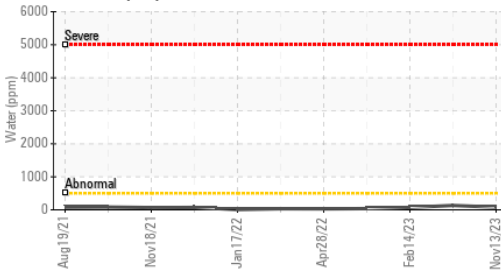
## ▲ Particle Trend



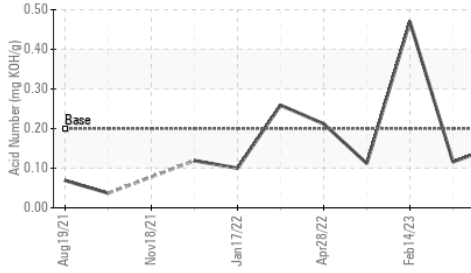
## ▲ Silicon (ppm)



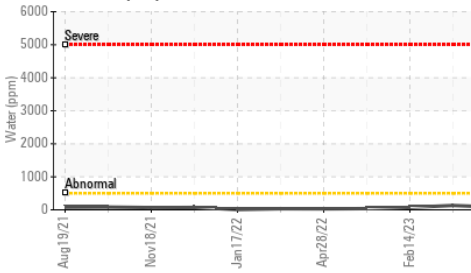
## Water (KF)



## Acid Number



## Water (KF)



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	NONE
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	108.1	100	103

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

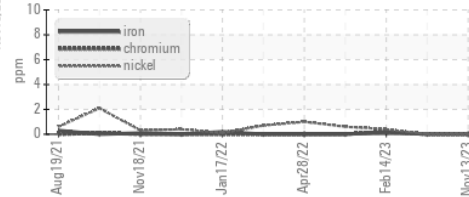


Bottom

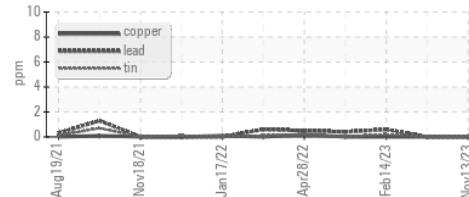


## GRAPHS

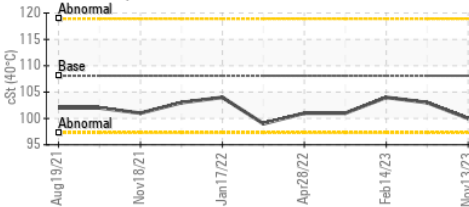
### Ferrous Alloys



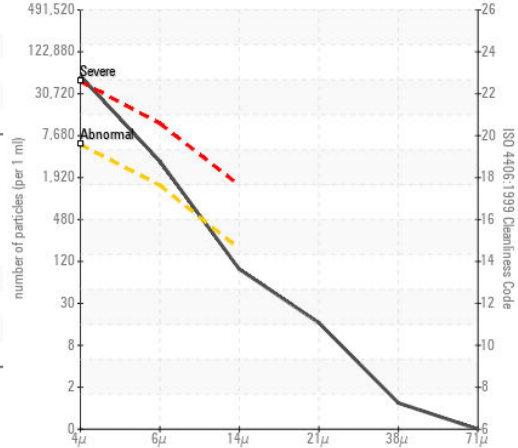
### Non-ferrous Metals



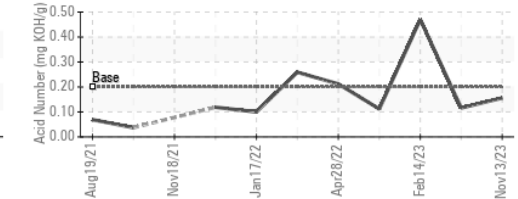
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111697 **Received** : 16 Nov 2023  
**Lab Number** : 06009645 **Diagnosed** : 19 Nov 2023  
**Unique Number** : 10743407 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

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

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)