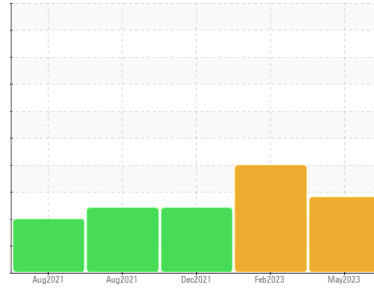


# PROBLEM SUMMARY

Sample Rating Trend



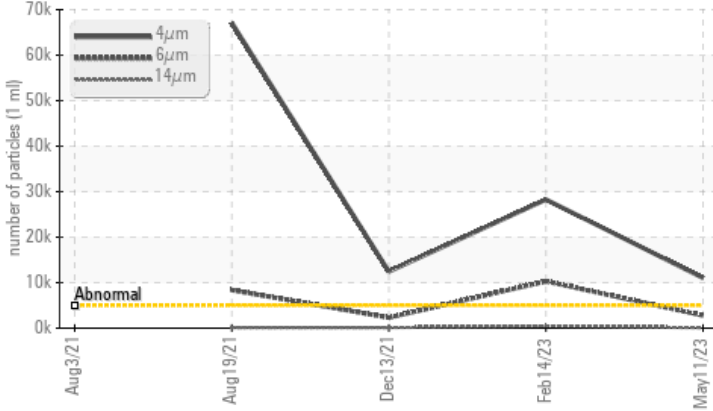
**DIRT**



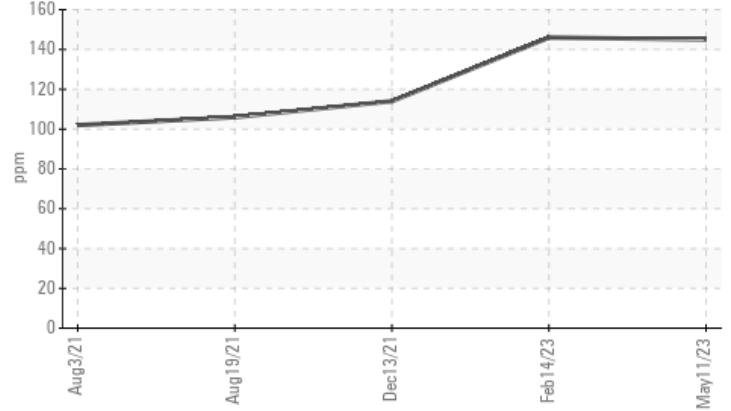
Area  
**Sawmill/Bulk Tank**  
Machine Id  
**[Sawmill^Bulk Tank] SM Saw Lube Bulk Tank**  
Component  
**Bulk Fluid Tank**  
Fluid  
**PETRO CANADA PETROGLIDE 100 (500 GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Silicon (ppm)



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	▲ <b>145</b>	▲ 146	▲ 114
Particles >4µm		ASTM D7647 >5000	▲ <b>11040</b>	▲ 28276	▲ 12432
Particles >6µm		ASTM D7647 >1300	▲ <b>2755</b>	▲ 10292	▲ 2325
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ <b>21/19/13</b>	▲ 22/21/16	▲ 21/18/14

Customer Id: WESRIE  
Sample No.: PCA0079398  
Lab Number: 05850028  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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 Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

### 14 Feb 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 particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 13 Dec 2021 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 indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 19 Aug 2021 Diag: Jonathan Hester

DIRT



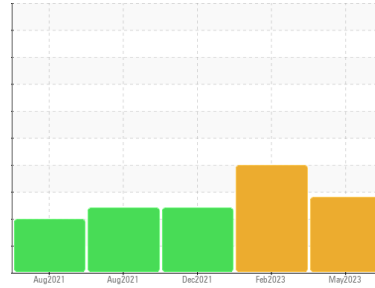
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress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

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Area  
**Sawmill/Bulk Tank**  
 Machine Id  
**[Sawmill^Bulk Tank] SM Saw Lube Bulk Tank**  
 Component  
**Bulk Fluid Tank**  
 Fluid  
**PETRO CANADA PETROGLIDE 100 (500 GAL)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. 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 indicating ingress of seal material.

### 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>PCA0079398</b>	PCA0079446	PCA0058780
Sample Date	Client Info	<b>11 May 2023</b>	14 Feb 2023	13 Dec 2021
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	Not Chngd	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>4</b>	3	1
Calcium	ppm	ASTM D5185m	<b>128</b>	115	110
Phosphorus	ppm	ASTM D5185m	<b>22</b>	11	15
Zinc	ppm	ASTM D5185m	<b>13</b>	0	0
Sulfur	ppm	ASTM D5185m 2500	<b>2276</b>	2736	1614

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<b>▲ 145</b>	▲ 146	▲ 114
Sodium	ppm	ASTM D5185m	<b>0</b>	0	10
Potassium	ppm	ASTM D5185m >20	<b>4</b>	4	<1
Water	%	ASTM D6304	<b>0.005</b>	0.017	0.008
ppm Water	ppm	ASTM D6304	<b>52.8</b>	174.7	83.1

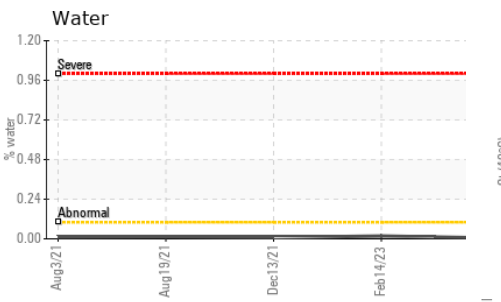
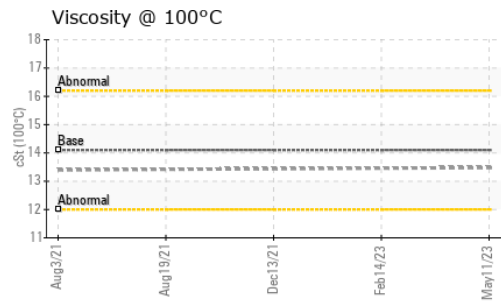
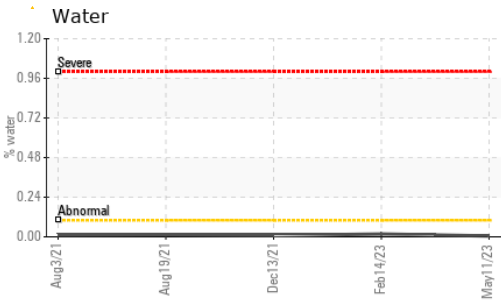
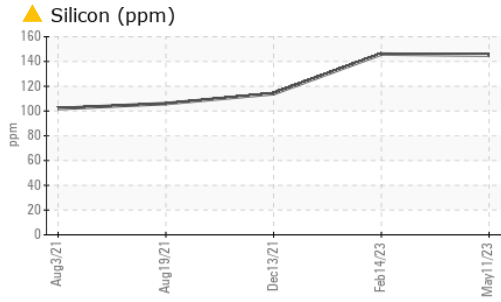
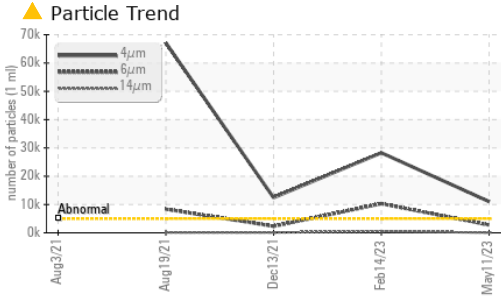
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 11040</b>	▲ 28276	▲ 12432
Particles >6µm	ASTM D7647 >1300	<b>▲ 2755</b>	▲ 10292	▲ 2325
Particles >14µm	ASTM D7647 >160	<b>69</b>	▲ 502	105
Particles >21µm	ASTM D7647 >40	<b>9</b>	▲ 116	22
Particles >38µm	ASTM D7647 >10	<b>0</b>	▲ 16	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 21/19/13</b>	▲ 22/21/16	▲ 21/18/14

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 .2	<b>0.116</b>	0.137	0.13

# OIL ANALYSIS REPORT

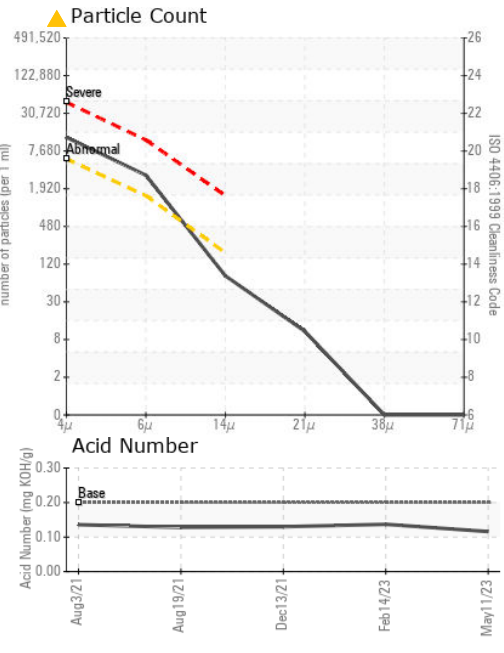
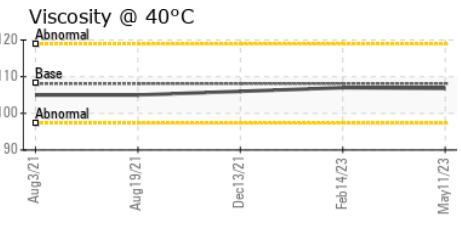
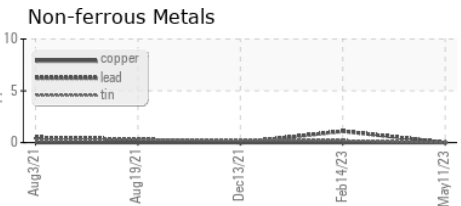
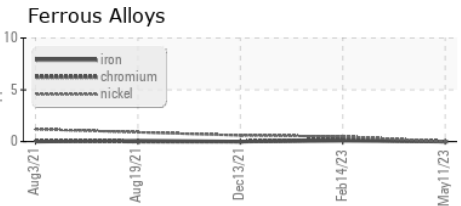


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108.1	106.8	107
Visc @ 100°C	cSt	ASTM D445	14.1	13.48	---
Viscosity Index (VI)	Scale	ASTM D2270	131	124	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0079398 **Received** : 17 May 2023  
**Lab Number** : 05850028 **Diagnosed** : 22 May 2023  
**Unique Number** : 10479383 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**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)