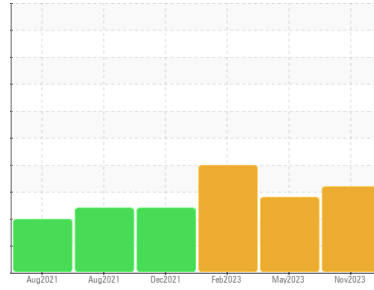


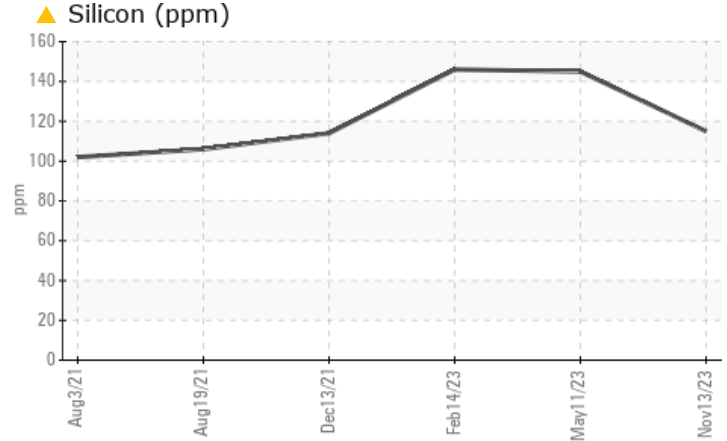
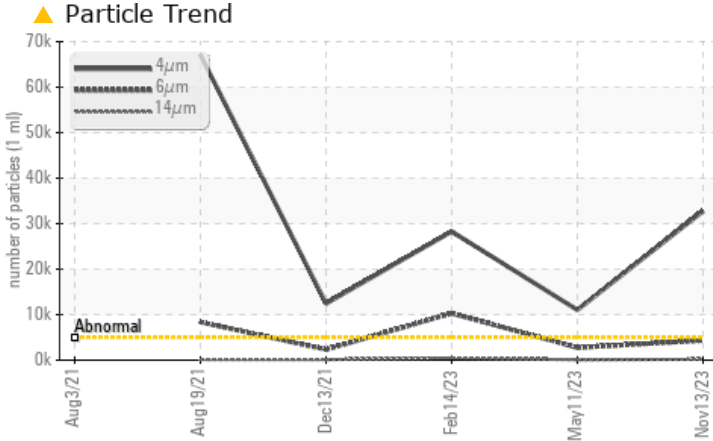
PROBLEM SUMMARY

Sample Rating Trend



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



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			ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	▲ 115	▲ 145	▲ 146
Particles >4µm		ASTM D7647 >5000	▲ 32742	▲ 11040	▲ 28276
Particles >6µm		ASTM D7647 >1300	▲ 4322	▲ 2755	▲ 10292
Particles >14µm		ASTM D7647 >160	▲ 181	69	▲ 502
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ 22/19/15	▲ 21/19/13	▲ 22/21/16

Customer Id: WESRIE
Sample No.: PCA0111698
Lab Number: 06009960
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
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: Jonathan Hester

DIRT



Oil and filter change at the time of sampling has been noted. 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



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



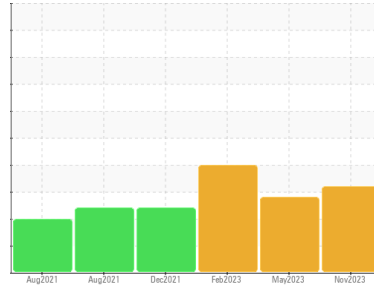
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress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

view report



OIL ANALYSIS REPORT

Sample Rating Trend



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
 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 particulates 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	PCA0111698	PCA0079398	PCA0079446
Sample Date	Client Info	13 Nov 2023	11 May 2023	14 Feb 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Changed	Changed	Not Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	2	4	3
Calcium	ppm	ASTM D5185m	108	128	115
Phosphorus	ppm	ASTM D5185m	14	22	11
Zinc	ppm	ASTM D5185m	27	13	0
Sulfur	ppm	ASTM D5185m 2500	2152	2276	2736

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	▲ 115	▲ 145	▲ 146
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	4	4	4
Water	%	ASTM D6304	0.005	0.005	0.017
ppm Water	ppm	ASTM D6304	56.6	52.8	174.7

FLUID CLEANLINESS

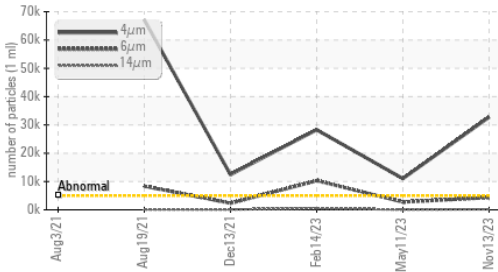
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 32742	▲ 11040	▲ 28276
Particles >6µm	ASTM D7647 >1300	▲ 4322	▲ 2755	▲ 10292
Particles >14µm	ASTM D7647 >160	▲ 181	69	▲ 502
Particles >21µm	ASTM D7647 >40	39	9	▲ 116
Particles >38µm	ASTM D7647 >10	2	0	▲ 16
Particles >71µm	ASTM D7647 >3	0	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/19/15	▲ 21/19/13	▲ 22/21/16

FLUID DEGRADATION

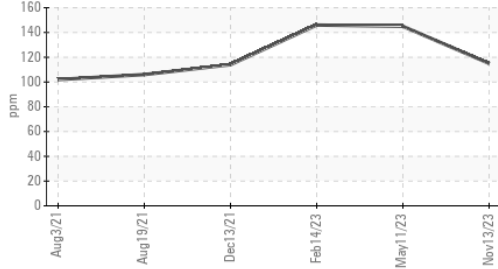
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 .2	0.245	0.116	0.137

OIL ANALYSIS REPORT

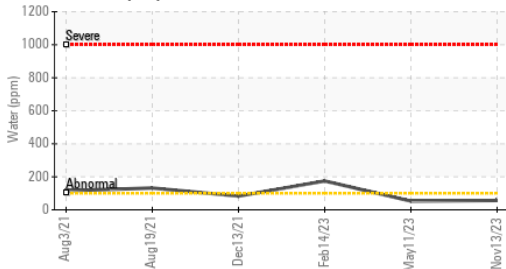
▲ Particle Trend



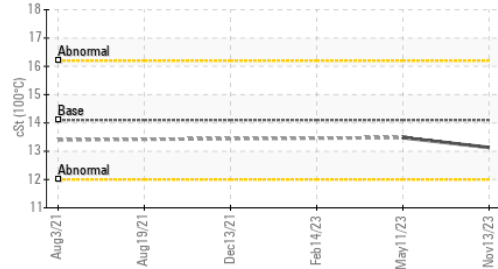
▲ Silicon (ppm)



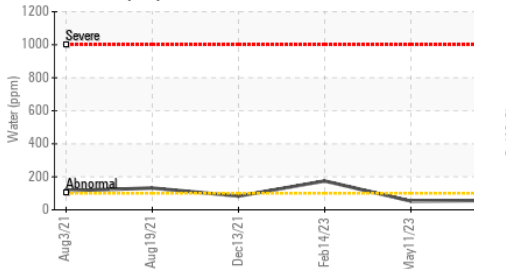
▲ Water (KF)



▲ Viscosity @ 100°C



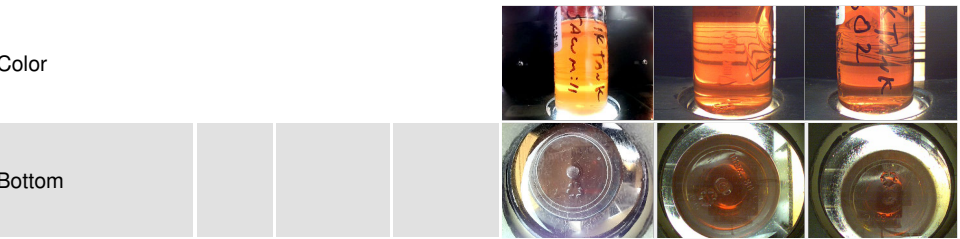
▲ Water (KF)



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	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

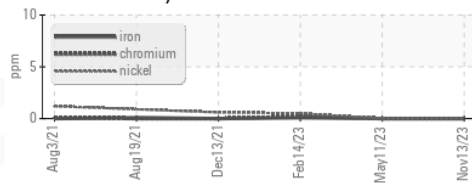
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108.1	106.8	107
Visc @ 100°C	cSt	ASTM D445	14.1	13.48	---
Viscosity Index (VI)	Scale	ASTM D2270	131	124	---

SAMPLE IMAGES

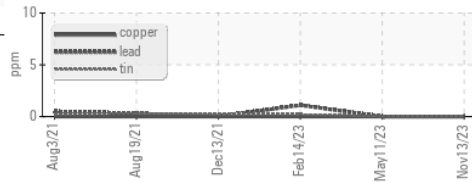


GRAPHS

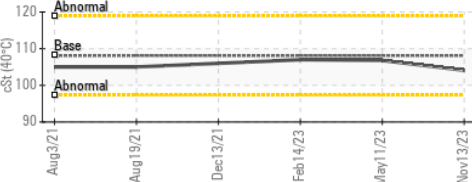
Ferrous Alloys



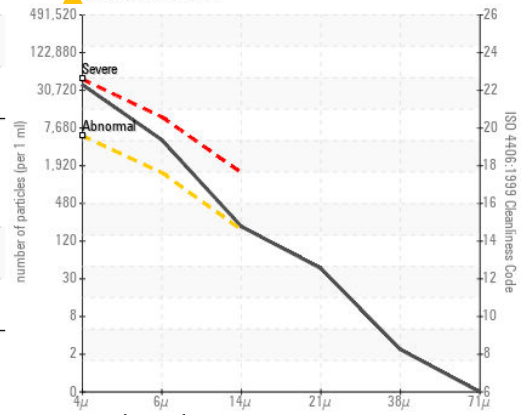
Non-ferrous Metals



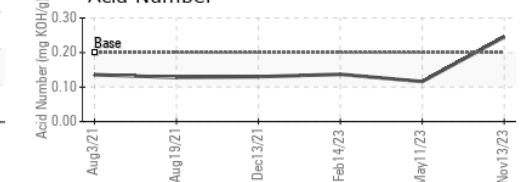
Viscosity @ 40°C



▲ Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111698 **Received** : 16 Nov 2023
Lab Number : 06009960 **Diagnosed** : 06 Dec 2023
Unique Number : 10749104 **Diagnostician** : Doug Bogart
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)