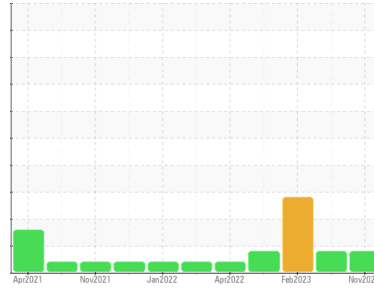


PROBLEM SUMMARY

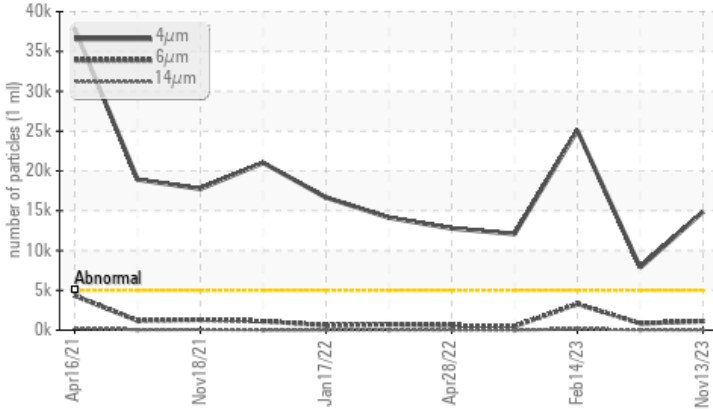
Area
Planer Mill/Strapper 1
 Machine Id
[Planer Mill^Strapper 1] STRAPPER 1
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX AW 68 (62 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm	ASTM D7647 >5000	▲ 14867	▲ 7861	▲ 25086
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/17/12	▲ 20/17/13	▲ 22/19/14

Customer Id: WESRIE
 Sample No.: PCA0111695
 Lab Number: 06009639
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

11 May 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. 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



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

ISO

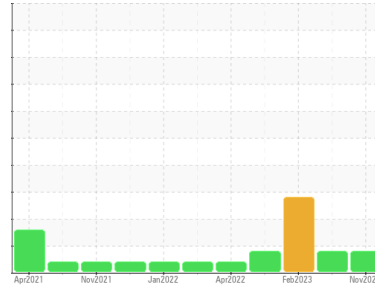


No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area
Planer Mill/Strapper 1
 Machine Id
[Planer Mill^Strapper 1] STRAPPER 1
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX AW 68 (62 GAL)



DIAGNOSIS

Recommendation
 We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear
 All component wear rates are normal.

Contamination
 There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition
 The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0111695	PCA0079465	PCA0079415
Sample Date	Client Info	13 Nov 2023	11 May 2023	14 Feb 2023
Machine Age	mths	Client Info	0	0
Oil Age	mths	Client Info	0	0
Oil Changed	Client Info	Not Changed	Not Changed	Filtered
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<1	0	<1
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	<1	1	0
Lead	ppm	ASTM D5185m >20	<1	0	0
Copper	ppm	ASTM D5185m >20	7	6	5
Tin	ppm	ASTM D5185m >20	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	<1	<1
Barium	ppm	ASTM D5185m 0	6	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	<1	<1
Manganese	ppm	ASTM D5185m 0	0	0	0
Magnesium	ppm	ASTM D5185m 0	3	3	2
Calcium	ppm	ASTM D5185m 50	147	179	162
Phosphorus	ppm	ASTM D5185m 330	312	370	315
Zinc	ppm	ASTM D5185m 430	367	406	363
Sulfur	ppm	ASTM D5185m 760	889	780	891

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<1	<1	▲ 23
Sodium	ppm	ASTM D5185m	0	<1	<1
Potassium	ppm	ASTM D5185m >20	<1	0	0
Water	%	ASTM D6304 >0.05	0.011	0.006	0.007
ppm Water	ppm	ASTM D6304 >500	116.0	63.6	79.0

FLUID CLEANLINESS

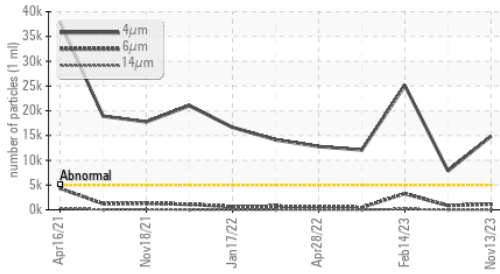
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 14867	▲ 7861	▲ 25086
Particles >6µm	ASTM D7647 >1300	1127	845	▲ 3275
Particles >14µm	ASTM D7647 >160	29	43	154
Particles >21µm	ASTM D7647 >40	8	14	33
Particles >38µm	ASTM D7647 >10	0	1	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/17/12	▲ 20/17/13	▲ 22/19/14

FLUID DEGRADATION

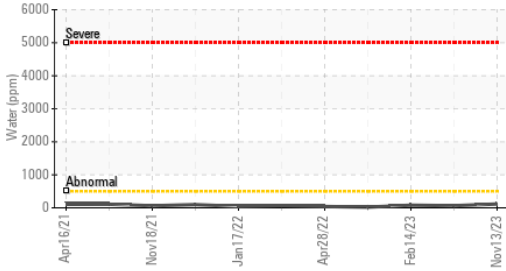
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.60	0.32	0.38	0.42

OIL ANALYSIS REPORT

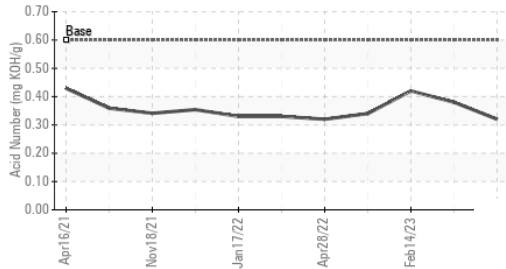
▲ Particle Trend



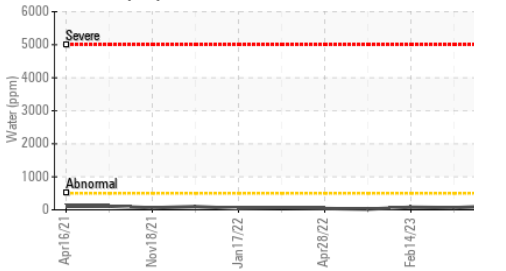
Water (KF)



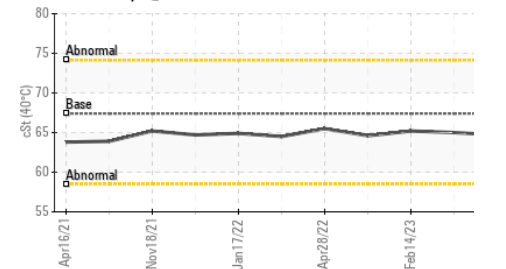
Acid Number



Water (KF)



Viscosity @ 40°C



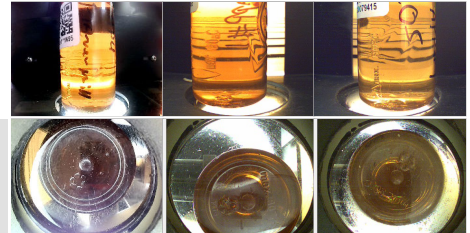
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	67.4	65.0	65.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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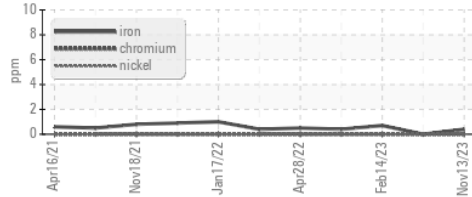
Color

Bottom

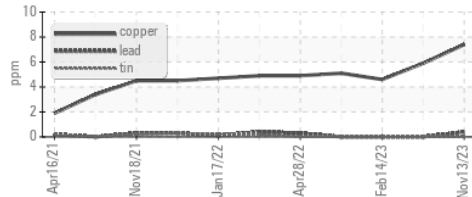


GRAPHS

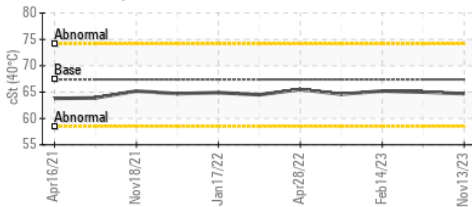
Ferrous Alloys



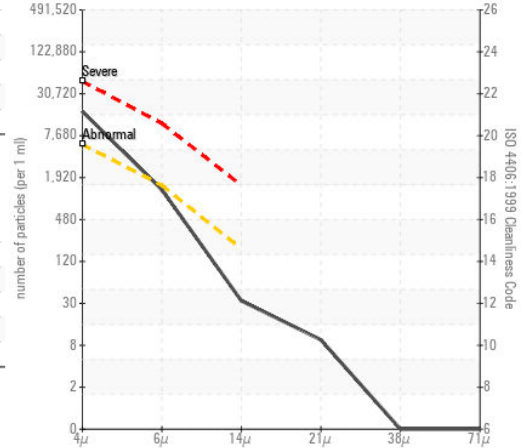
Non-ferrous Metals



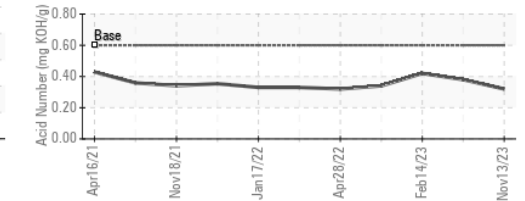
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111695 **Received** : 16 Nov 2023
Lab Number : 06009639 **Diagnosed** : 17 Nov 2023
Unique Number : 10743401 **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

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)