

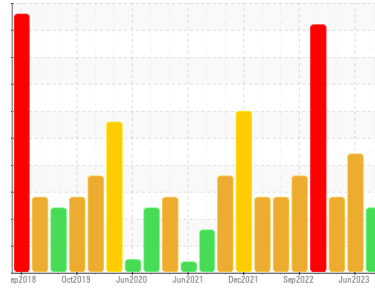


PROBLEM SUMMARY

Area
TRAYLINE
 Machine Id
B40409 - BEEF PREP GRINDER

Component
Hydraulic System
 Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)

Sample Rating Trend

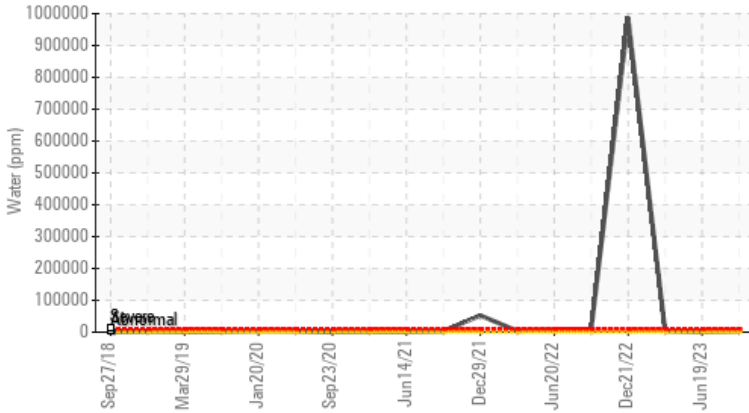


WATER

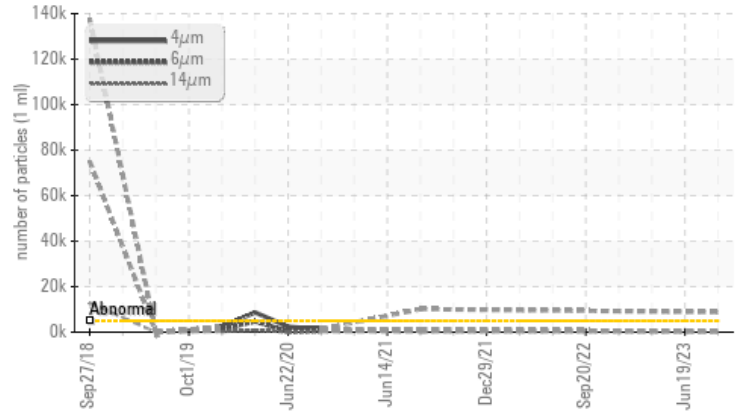


COMPONENT CONDITION SUMMARY

▲ Water (KF)



▲ Particle Trend



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
Water	%	ASTM D6304	>0.1	▲ 0.289	▲ 0.115	▲ 0.373
ppm Water	ppm	ASTM D6304	>1000	▲ 2890	▲ 1150	▲ 3730
Particles >4µm		ASTM D7647	>5000	▲ 8772	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/15/12	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	▲ 0.2%	0.2%

Customer Id: ROCROCUS
 Sample No.: WC0842458
 Lab Number: 05962200
 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

19 Jun 2023 Diag: Angela Borella

WATER



We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Inspect/change air breather if applicable. All component wear rates are normal. Appearance is hazy. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



20 Mar 2023 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is hazy. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report



21 Dec 2022 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We advise an early resample to confirm this situation. Please note that there was too much water present in the oil to perform a viscosity test. There is too much water present in this sample to perform a particle count. All component wear rates are normal. Sample consists almost entirely of free water. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

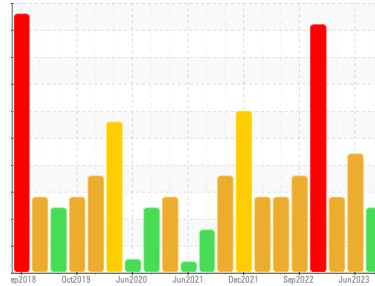
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OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
TRAYLINE
 Machine Id
B40409 - BEEF PREP GRINDER

Component
Hydraulic System
 Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- 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 moderate amount of silt (particulates < 6 microns in size) present in the oil. There is a light concentration of water present in the oil.

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		WC0842458	WC0814161	WC0791905
Sample Date	Client Info		18 Sep 2023	19 Jun 2023	20 Mar 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	6	0	14
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	1	<1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >75	<1	0	0
Tin	ppm	ASTM D5185m >10	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	0
Barium	ppm	ASTM D5185m	0	4	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0
Calcium	ppm	ASTM D5185m	3	0	0
Phosphorus	ppm	ASTM D5185m	425	403	439
Zinc	ppm	ASTM D5185m	<1	2	0
Sulfur	ppm	ASTM D5185m	531	520	209

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	2	<1	4
Sodium	ppm	ASTM D5185m	6	<1	0
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.1	▲ 0.289	▲ 0.115	▲ 0.373
ppm Water	ppm	ASTM D6304 >1000	▲ 2890	▲ 1150	▲ 3730

FLUID CLEANLINESS

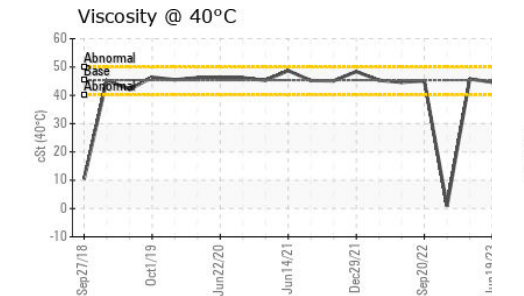
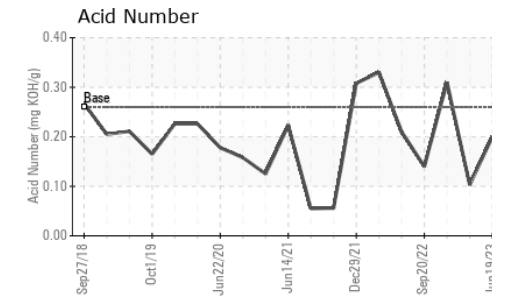
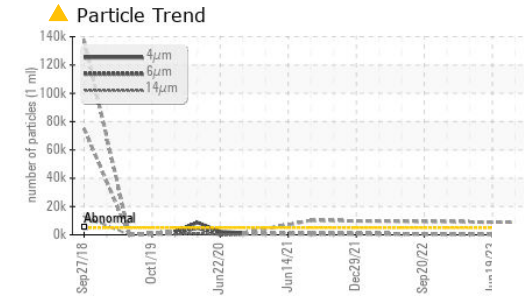
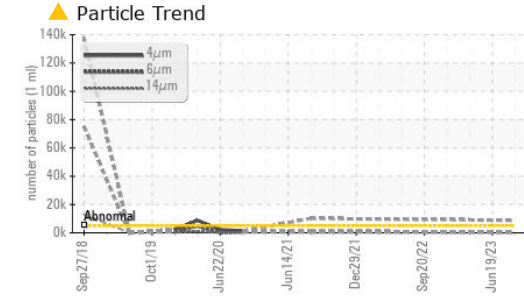
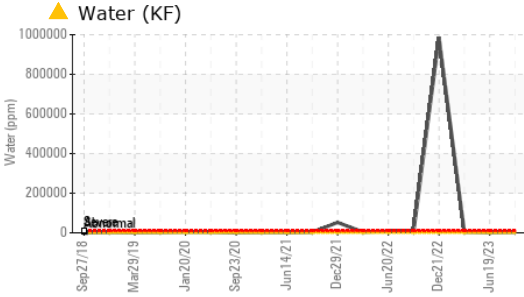
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 8772	---	---
Particles >6µm	ASTM D7647	>1300	320	---	---
Particles >14µm	ASTM D7647	>160	31	---	---
Particles >21µm	ASTM D7647	>40	7	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/15/12	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.26	0.14	0.20	0.103



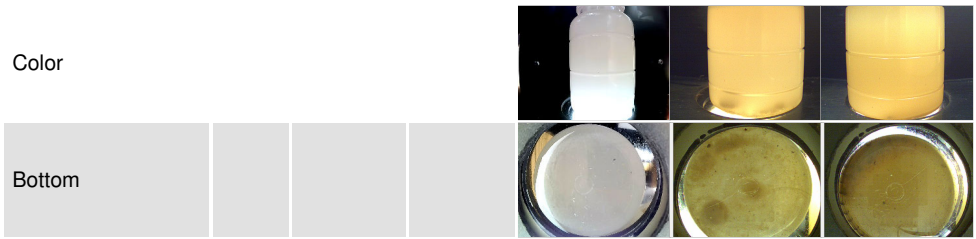
OIL ANALYSIS REPORT



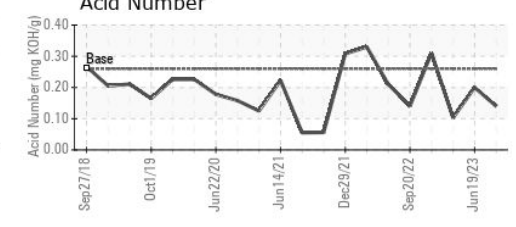
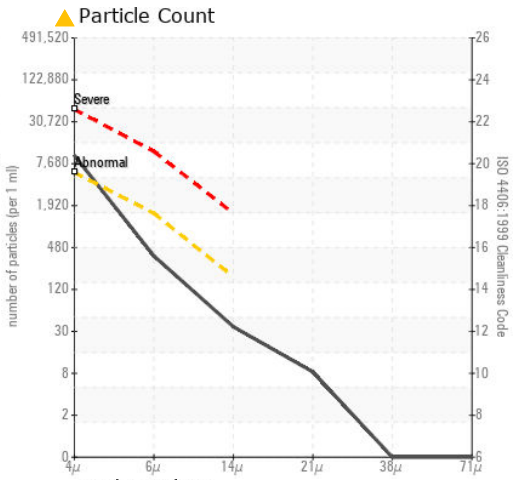
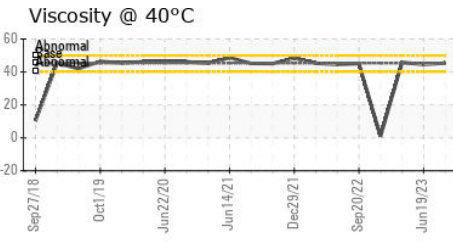
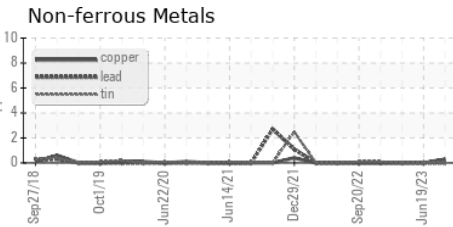
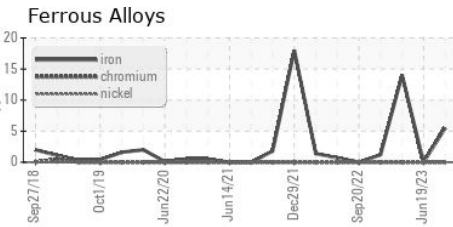
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	0.2%
Free Water	scalar	*Visual		▲ 1.0	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.36	45.4	44.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0842458 **Received** : 27 Sep 2023
Lab Number : 05962200 **Diagnosed** : 03 Oct 2023
Unique Number : 10668751 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF)

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 Rochelle, IL
 US 61068
 Contact: JAMES ROBINSON III
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 F: (815)562-4147

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)