



PROBLEM SUMMARY

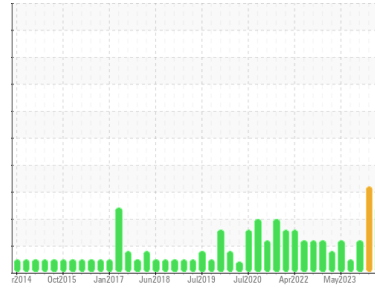
Sample Rating Trend

DEGRADATION

Machine Id
VILTER B37157 - HC5

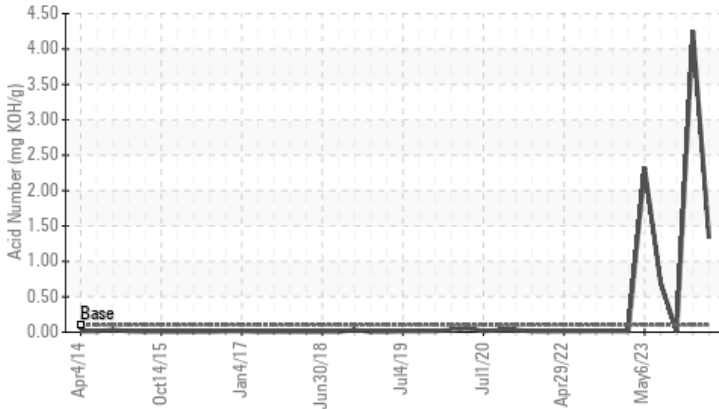
Component
Compressor

Fluid
PETRO CANADA REFLO XL SYNTHETIC BLEND (110 GAL)

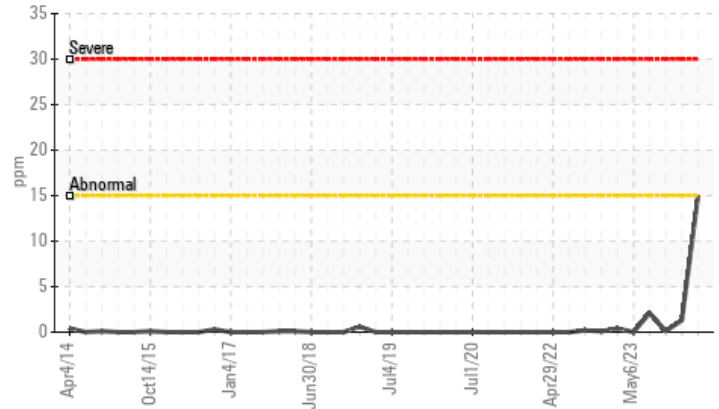


COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Aluminum (ppm)



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	ATTENTION
Aluminum	ppm	ASTM D5185m	>15	▲ 15	1	<1
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	▲ 1.33	● 4.25	0.014
Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT

Customer Id: ROCROCUS
Sample No.: WC0820545
Lab Number: 05922157
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

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 Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

29 Jul 2023 Diag: Jonathan Hester

DEGRADATION



We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is above the recommended limit.

view report



22 Jun 2023 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 moderate amount of silt (particulates < 6 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



30 May 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

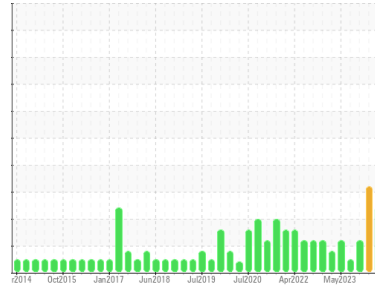
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
VILTER B37157 - HC5

Component
Compressor

Fluid
PETRO CANADA REFLO XL SYNTHETIC BLEND (110 GAL)

DIAGNOSIS

▲ Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

▲ Wear

The aluminum level is abnormal. All other component wear rates are normal.

▲ Contamination

Moderate concentration of visible dirt/debris present in the oil.

▲ Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0820545	WC0820501	WC0814147
Sample Date	Client Info		30 Jul 2023	29 Jul 2023	22 Jun 2023
Machine Age	hrs	Client Info	0	49115	79223
Oil Age	hrs	Client Info	0	0	100
Oil Changed	Client Info		Not Chngd	N/A	Not Chngd
Sample Status			ABNORMAL	SEVERE	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	0	11
Chromium	ppm	ASTM D5185m >5	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >15	▲ 15	1	<1
Lead	ppm	ASTM D5185m >65	0	0	0
Copper	ppm	ASTM D5185m >65	<1	1	<1
Tin	ppm	ASTM D5185m >10	0	0	0
Vanadium	ppm	ASTM D5185m	<1	<1	<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	<1
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	2
Calcium	ppm	ASTM D5185m	0	0	0
Phosphorus	ppm	ASTM D5185m	200	113	2
Zinc	ppm	ASTM D5185m	0	0	1
Sulfur	ppm	ASTM D5185m	404	284	1490

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	6	2	<1
Sodium	ppm	ASTM D5185m	<1	2	<1
Potassium	ppm	ASTM D5185m >20	0	0	<1

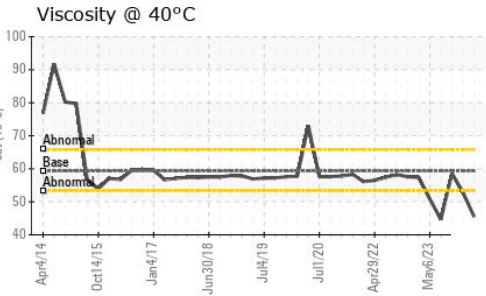
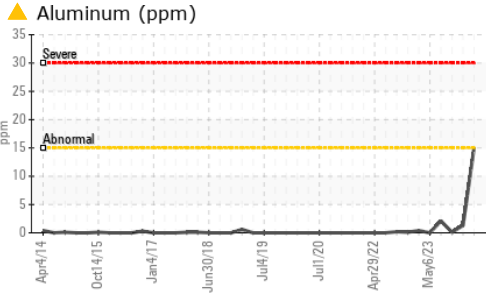
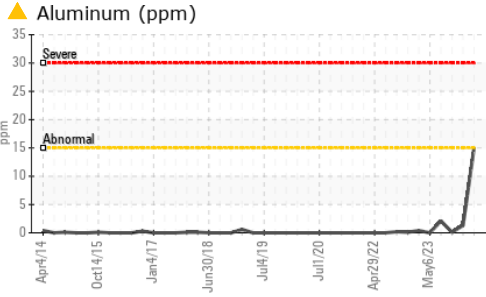
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	---	2905	▲ 17294
Particles >6µm	ASTM D7647	>2500	---	792	▲ 4277
Particles >14µm	ASTM D7647	>320	---	45	118
Particles >21µm	ASTM D7647	>80	---	7	15
Particles >38µm	ASTM D7647	>20	---	0	0
Particles >71µm	ASTM D7647	>4	---	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	---	19/17/13	▲ 21/19/14

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.1	▲ 1.33	4.25	0.014

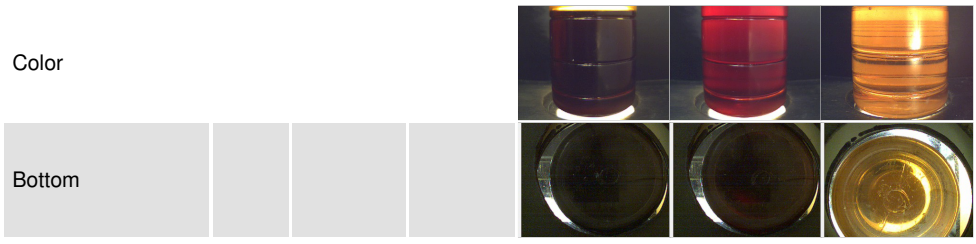
OIL ANALYSIS REPORT



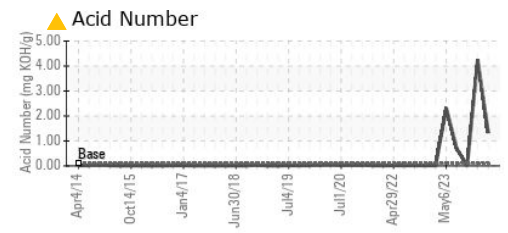
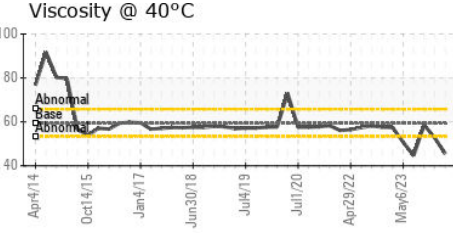
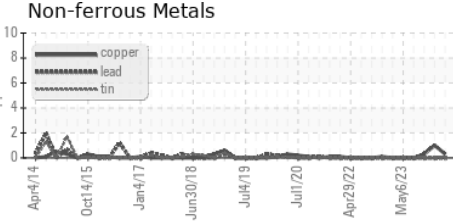
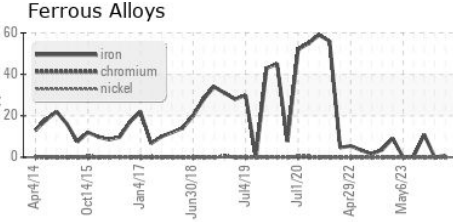
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	59.3	45.5	52.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0820545 **Received** : 11 Aug 2023
Lab Number : 05922157 **Diagnosed** : 14 Aug 2023
Unique Number : 10602104 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

Rochelle Foods - PRE
 1001 South Main, P.O. Box 45
 Rochelle, IL
 US 61068
 Contact: JAY BURKE
 jfburke@hormel.com
 T: (815)562-4141
 F: (815)562-4147

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)