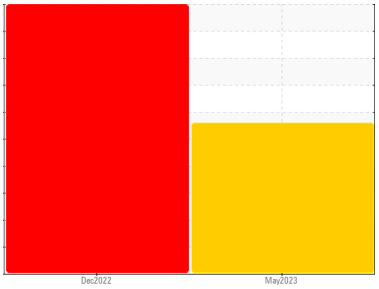
PROBLEM SUMMARY

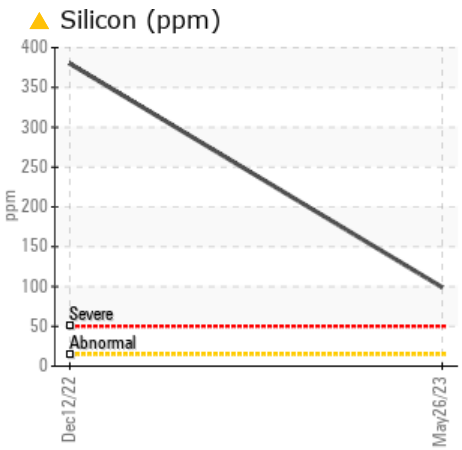
Sample Rating Trend

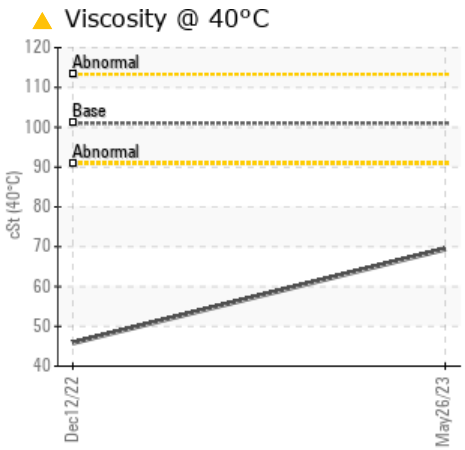


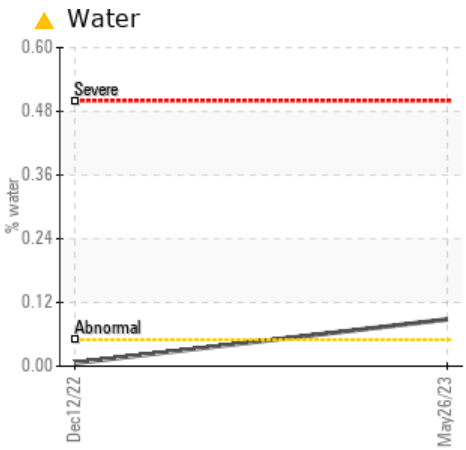
WATER

Area
BATCH SYSTEM 3
Machine Id
BS3 HOMO
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 100 (--- LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. 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	---
Silicon	ppm	ASTM D5185m	>15	▲ 99	⬢ 380	---
Water	%	ASTM D6304	>0.05	▲ 0.088	0.006	---
ppm Water	ppm	ASTM D6304	>500	▲ 880	64.4	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	---
Free Water	scalar	*Visual		▲ 1.0	NEG	---
Visc @ 40°C	cSt	ASTM D445	101	▲ 69.38	45.8	---

Customer Id: KRAMASIOW
Sample No.: USP248899
Lab Number: 05861894
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
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Other Action (see Note)	DONE	Jun 05 2023	?	No recommended actions

HISTORICAL DIAGNOSIS

12 Dec 2022 Diag: Jonathan Hester

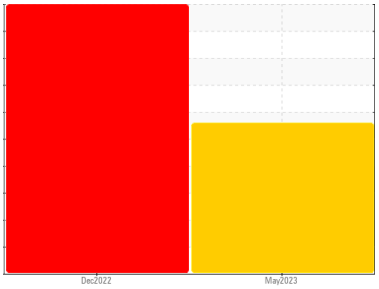
VISUAL METAL

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.The copper level is severe. Moderate concentration of visible metal present. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
BATCH SYSTEM 3
Machine Id
BS3 HOMO
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 100 (--- LTR)

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
All component wear rates are normal.

Contamination
Elemental level of silicon (Si) above normal. Moderate concentration of visible dirt/debris present in the oil. Free water present. There is a trace of moisture present in the oil.

Fluid Condition
The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP248899**	USP234446	---
Sample Date		Client Info		**26 May 2023**	12 Dec 2022	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**2**	16	---
Chromium	ppm	ASTM D5185m	>20	**0**	0	---
Nickel	ppm	ASTM D5185m	>20	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	---
Lead	ppm	ASTM D5185m	>20	**0**	1	---
Copper	ppm	ASTM D5185m	>20	**<1**	303	---
Tin	ppm	ASTM D5185m	>20	**0**	4	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

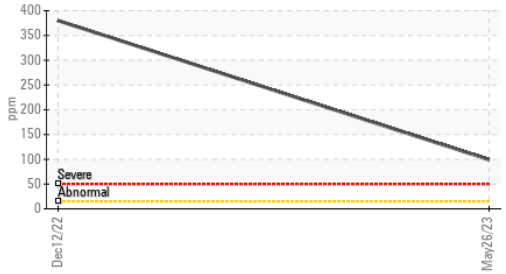
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	3	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**5**	99	---
Manganese	ppm	ASTM D5185m	0	**0**	<1	---
Magnesium	ppm	ASTM D5185m	0	**<1**	<1	---
Calcium	ppm	ASTM D5185m	50	**50**	79	---
Phosphorus	ppm	ASTM D5185m	330	**344**	547	---
Zinc	ppm	ASTM D5185m	430	**427**	495	---
Sulfur	ppm	ASTM D5185m	760	**906**	1500	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ **99**	380	---
Sodium	ppm	ASTM D5185m		**0**	<1	---
Potassium	ppm	ASTM D5185m	>20	**1**	0	---
Water	%	ASTM D6304	>0.05	▲ **0.088**	0.006	---
ppm Water	ppm	ASTM D6304	>500	▲ **880**	64.4	---

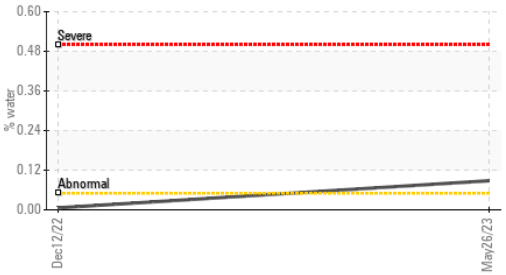
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	**0.47**	0.58	---

OIL ANALYSIS REPORT

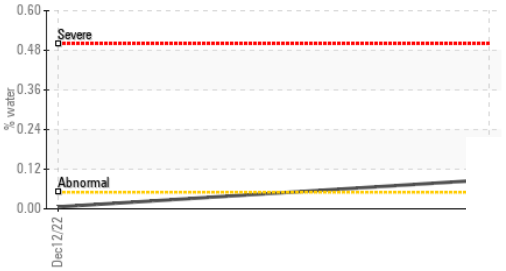
Silicon (ppm)



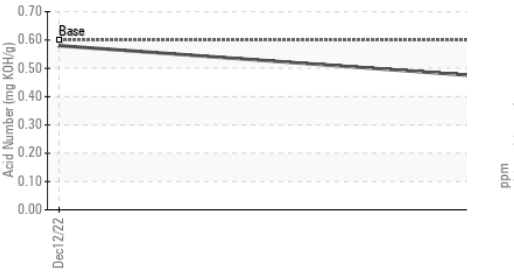
Water



Water

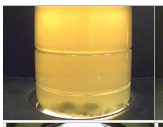
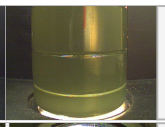
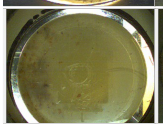
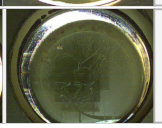


Acid Number



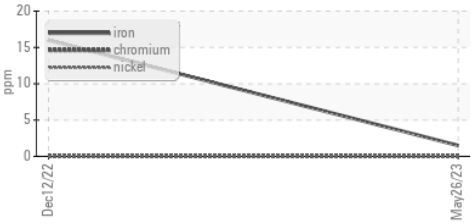
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**MODER**	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.05	**0.2%**	NEG	---
Free Water	scalar	*Visual		**1.0**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	101	**69.38**	45.8	---

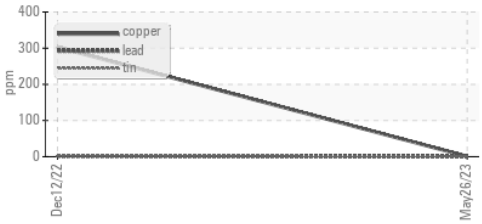
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

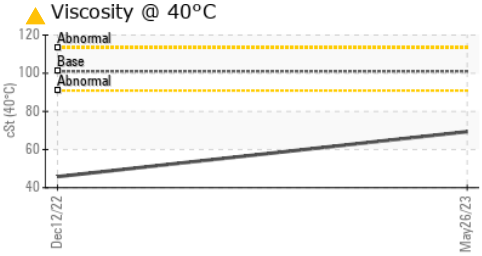
Ferrous Alloys



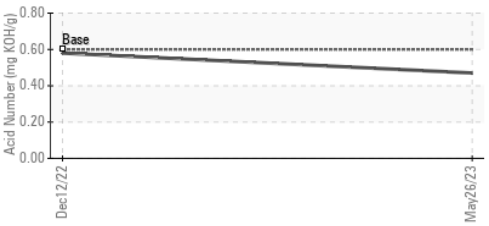
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP248899
Lab Number : 05861894
Unique Number : 10496359
Test Package : IND 2

Received : 01 Jun 2023
Diagnosed : 02 Jun 2023
Diagnostician : Doug Bogart

KraftHeinz - Mason City - Plant 8360
1022 12TH ST
MASON CITY, IA
US 50401
Contact: Service Manager
T:
F: (641)421-2936

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)