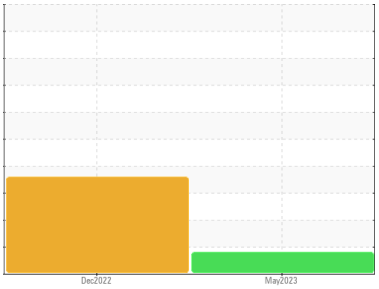
PROBLEM SUMMARY

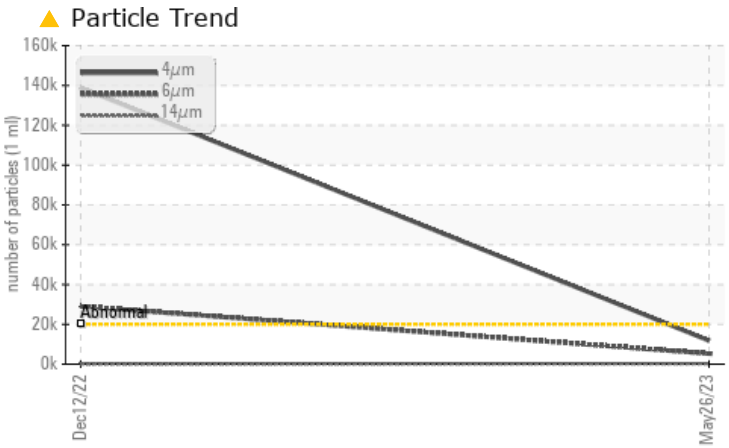
Area
BATCH SYSTEM 3
Machine Id
BS3 HOMO
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 460 (--- LTR)

Sample Rating Trend



ISO

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	ABNORMAL	---
Particles >6µm		ASTM D7647	>5000	▲ **5294**	▲ 29062	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **21/20/15**	▲ 24/22/14	---

Customer Id: KRAMASIOW
Sample No.: USP248904
Lab Number: 05861896
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
Other Action (see Note)	DONE	Jun 05 2023	?	No recommended actions

HISTORICAL DIAGNOSIS

12 Dec 2022 Diag: Jonathan Hester

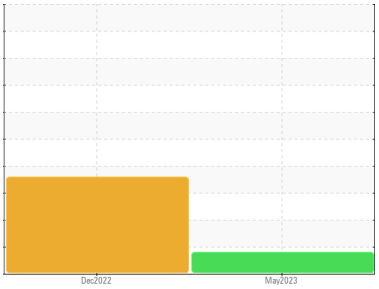
WATER

We advise that you follow the water drain-off procedure for this component, 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 high amount of silt (particulates < 14 microns in size) present in the oil. Free water present. 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



ISO

Area
BATCH SYSTEM 3
Machine Id
BS3 HOMO
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 460 (--- LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) 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		**USP248904**	USP234430	---
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				**ATTENTION**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**108**	0	---
Chromium	ppm	ASTM D5185m	>15	**0**	0	---
Nickel	ppm	ASTM D5185m	>15	**0**	0	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**<1**	<1	---
Lead	ppm	ASTM D5185m	>100	**0**	0	---
Copper	ppm	ASTM D5185m	>200	**5**	1	---
Tin	ppm	ASTM D5185m	>25	**0**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	55	**59**	0	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**39**	7	---
Manganese	ppm	ASTM D5185m	0	**<1**	0	---
Magnesium	ppm	ASTM D5185m	2	**1**	0	---
Calcium	ppm	ASTM D5185m	6	**2**	47	---
Phosphorus	ppm	ASTM D5185m	240	**347**	354	---
Zinc	ppm	ASTM D5185m	3	**8**	446	---
Sulfur	ppm	ASTM D5185m	10310	**8931**	1021	---

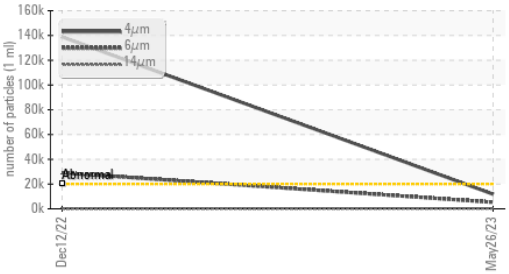
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**8**	24	---
Sodium	ppm	ASTM D5185m		**0**	0	---
Potassium	ppm	ASTM D5185m	>20	**<1**	0	---
Water	%	ASTM D6304	>0.2	**0.007**	0.093	---
ppm Water	ppm	ASTM D6304	>2000	**77.0**	930	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**11802**	▲ 138900	---
Particles >6µm		ASTM D7647	>5000	▲ **5294**	▲ 29062	---
Particles >14µm		ASTM D7647	>640	**235**	83	---
Particles >21µm		ASTM D7647	>160	**40**	15	---
Particles >38µm		ASTM D7647	>40	**7**	3	---
Particles >71µm		ASTM D7647	>10	**5**	2	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **21/20/15**	▲ 24/22/14	---

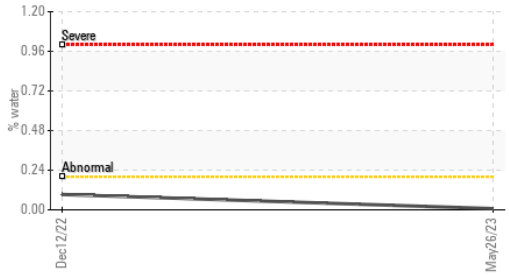
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	**0.70**	0.50	---

OIL ANALYSIS REPORT

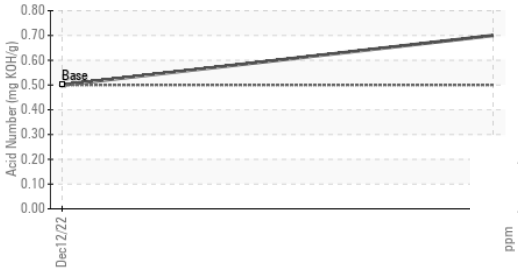
Particle Trend



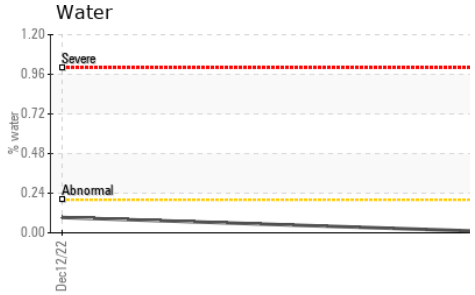
Water



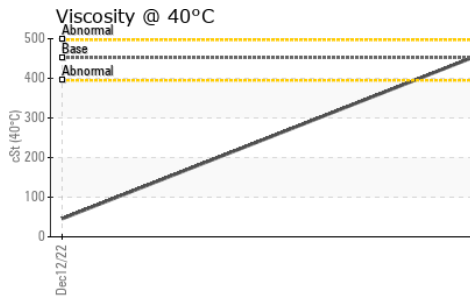
Acid Number



Water

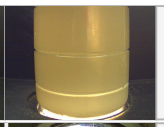
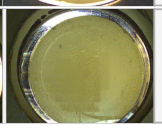


Viscosity @ 40°C



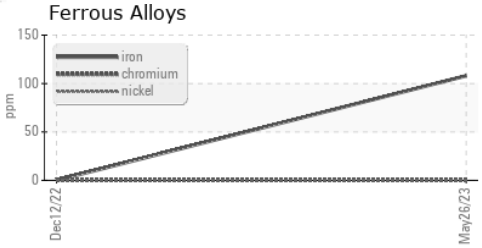
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**LIGHT**	VLITE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	**473**	45.6	---

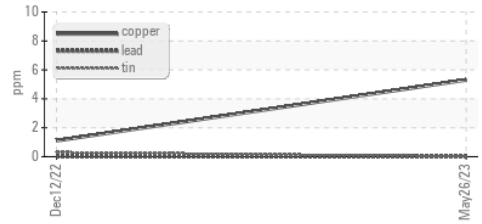
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

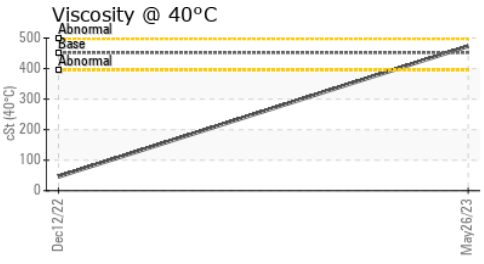
Ferrous Alloys



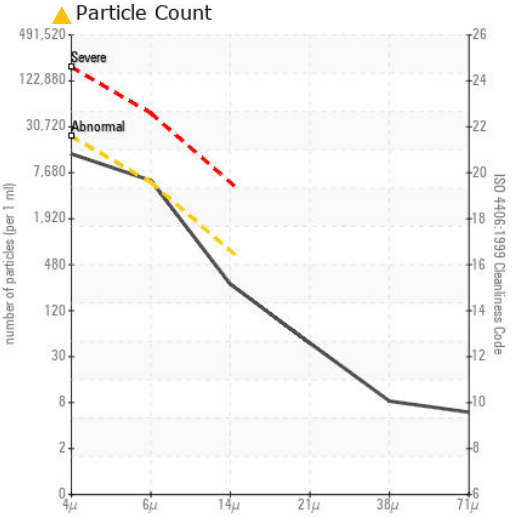
Non-ferrous Metals



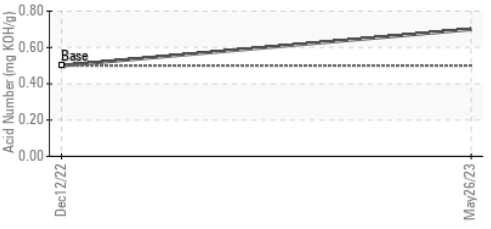
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP248904
Lab Number : 05861896
Unique Number : 10496361
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

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)

T:
F: (641)421-2936