

PROBLEM SUMMARY

Sample Rating Trend

ISO

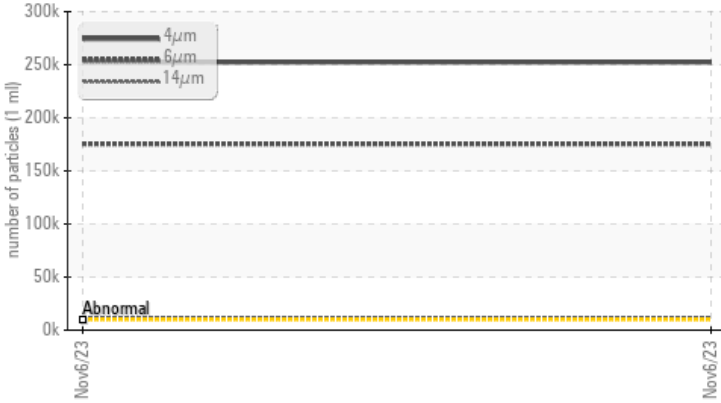


Area
[98421577]
 Machine Id
KR-GR-003470 - MACERATOR PARALLEL SHAFT (S/N INJECT B - 11513056)
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (--- GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>10000	▲ 252374	---	---
Particles >6µm	ASTM D7647	>2500	▲ 175421	---	---
Particles >14µm	ASTM D7647	>640	▲ 11958	---	---
Particles >21µm	ASTM D7647	>160	▲ 1210	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/16	▲ 25/25/21	---	---

Customer Id: KRAKIR
 Sample No.: PCA0108238
 Lab Number: 06000482
 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

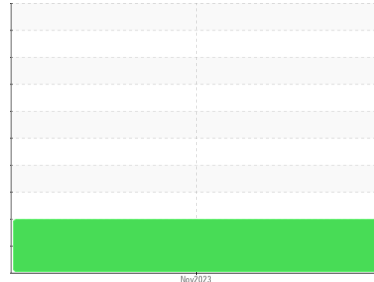
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
[98421577]
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KR-GR-003470 - MACERATOR PARALLEL SHAFT (S/N INJECT B - 11513056)
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	PCA0108238	---	---
Sample Date	Client Info	06 Nov 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>200	188	---	---
Chromium ppm ASTM D5185m	>15	<1	---	---
Nickel ppm ASTM D5185m	>15	1	---	---
Titanium ppm ASTM D5185m		10	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	3	---	---
Lead ppm ASTM D5185m	>100	<1	---	---
Copper ppm ASTM D5185m	>200	<1	---	---
Tin ppm ASTM D5185m	>25	0	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	0	---	---
Barium ppm ASTM D5185m		9	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		4	---	---
Magnesium ppm ASTM D5185m	0	2	---	---
Calcium ppm ASTM D5185m	0	49	---	---
Phosphorus ppm ASTM D5185m	600	481	---	---
Zinc ppm ASTM D5185m	0	0	---	---
Sulfur ppm ASTM D5185m	500	582	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	12	---	---
Sodium ppm ASTM D5185m		13	---	---
Potassium ppm ASTM D5185m	>20	2	---	---
Water % ASTM D6304	>0.2	0.144	---	---
ppm Water ppm ASTM D6304	>2000	1440	---	---

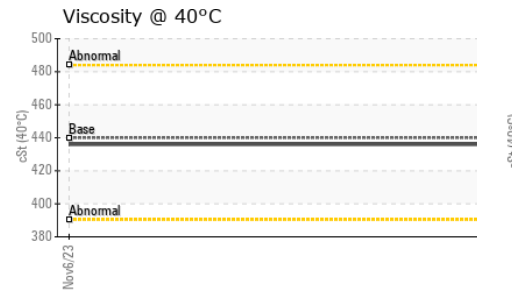
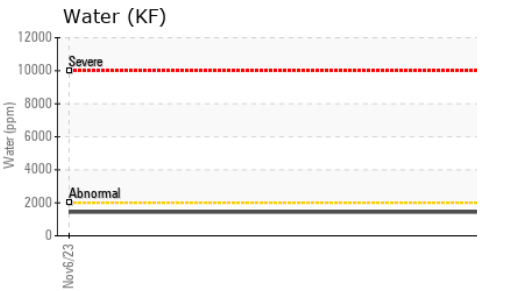
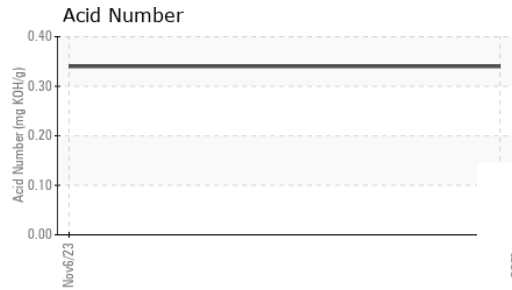
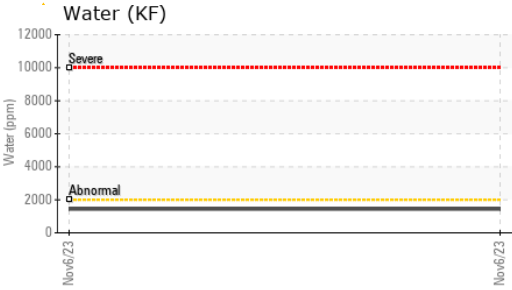
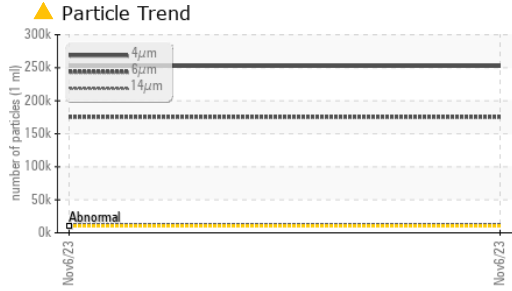
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	▲ 252374	---	---
Particles >6µm ASTM D7647	>2500	▲ 175421	---	---
Particles >14µm ASTM D7647	>640	▲ 11958	---	---
Particles >21µm ASTM D7647	>160	▲ 1210	---	---
Particles >38µm ASTM D7647	>40	4	---	---
Particles >71µm ASTM D7647	>10	0	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/16	▲ 25/25/21	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.34	---	---

OIL ANALYSIS REPORT



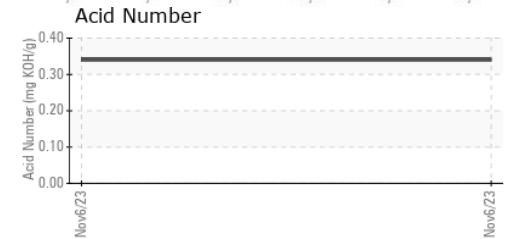
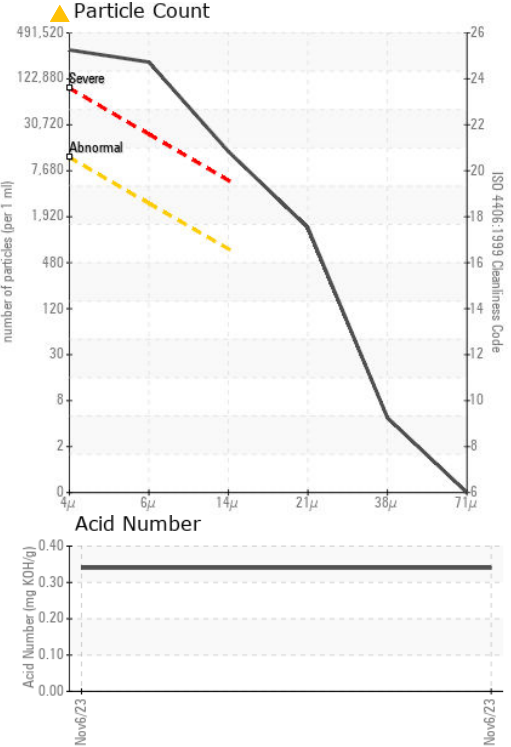
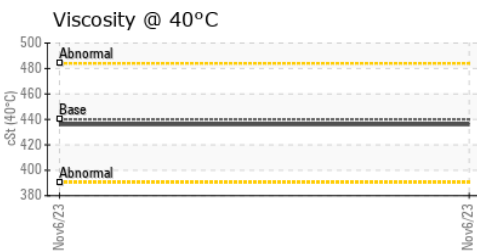
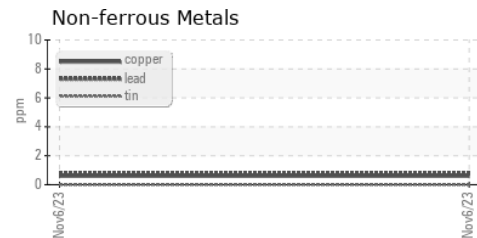
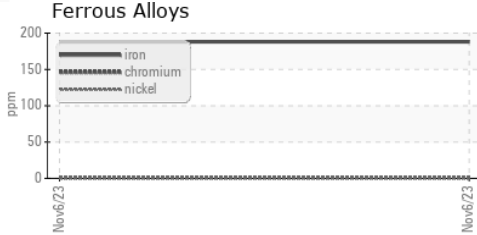
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	440	436	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108238 **Received** : 07 Nov 2023
Lab Number : 06000482 **Diagnosed** : 14 Nov 2023
Unique Number : 10728842 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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)