

PROBLEM SUMMARY

Sample Rating Trend



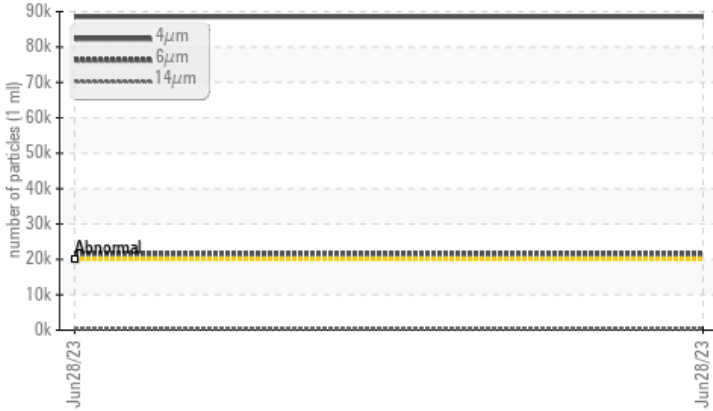
ISO



Machine Id
54-74
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 320 (2200 LTR)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>20000	▲ 88552	---	---
Particles >6µm	ASTM D7647	>5000	▲ 21574	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/16	---	---

Customer Id: HOLCOL
Sample No.: PC0062134
Lab Number: 02568094
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the component make and model with your next sample.

HISTORICAL DIAGNOSIS



Machine Id
54-74

Component
Gearbox

Fluid
PETRO CANADA ENDURATEX EP 320 (2200 LTR)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	PC0062134	---	---
Sample Date	Client Info	28 Jun 2023	---	---
Machine Age	hrs Client Info	2545	---	---
Oil Age	hrs Client Info	829	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185(m)	>200	5	---	---
Chromium ppm ASTM D5185(m)	>10	0	---	---
Nickel ppm ASTM D5185(m)	>10	0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>25	<1	---	---
Lead ppm ASTM D5185(m)	>50	3	---	---
Copper ppm ASTM D5185(m)	>200	12	---	---
Tin ppm ASTM D5185(m)	>10	<1	---	---
Antimony ppm ASTM D5185(m)	>5	0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185(m)	55	46	---	---
Barium ppm ASTM D5185(m)	0	0	---	---
Molybdenum ppm ASTM D5185(m)	0	0	---	---
Manganese ppm ASTM D5185(m)	0	0	---	---
Magnesium ppm ASTM D5185(m)	0	<1	---	---
Calcium ppm ASTM D5185(m)	0	2	---	---
Phosphorus ppm ASTM D5185(m)	240	244	---	---
Zinc ppm ASTM D5185(m)	1	3	---	---
Sulfur ppm ASTM D5185(m)	13700	4916	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>50	6	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---

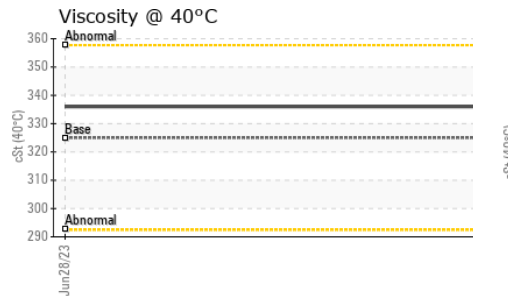
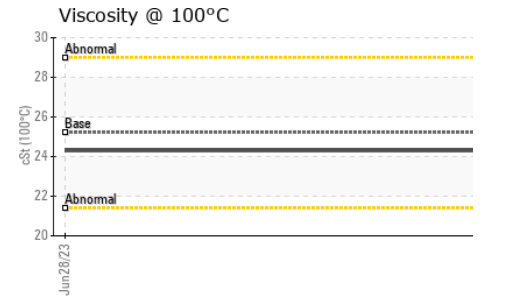
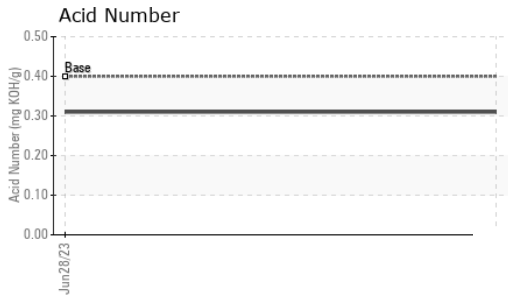
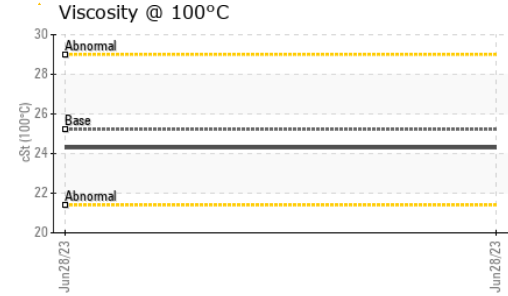
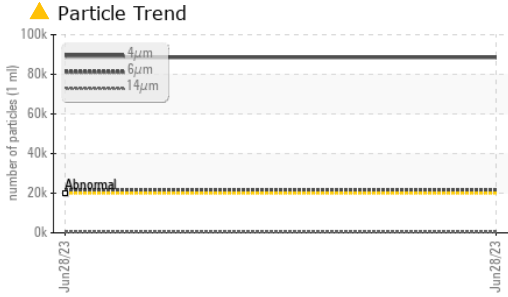
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm ASTM D7647	>20000	▲ 88552	---	---
Particles >6µm ASTM D7647	>5000	▲ 21574	---	---
Particles >14µm ASTM D7647	>640	351	---	---
Particles >21µm ASTM D7647	>160	55	---	---
Particles >38µm ASTM D7647	>40	11	---	---
Particles >71µm ASTM D7647	>10	9	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	▲ 24/22/16	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g ASTM D974*	0.4	0.31	---	---

OIL ANALYSIS REPORT

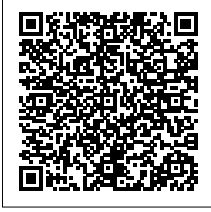
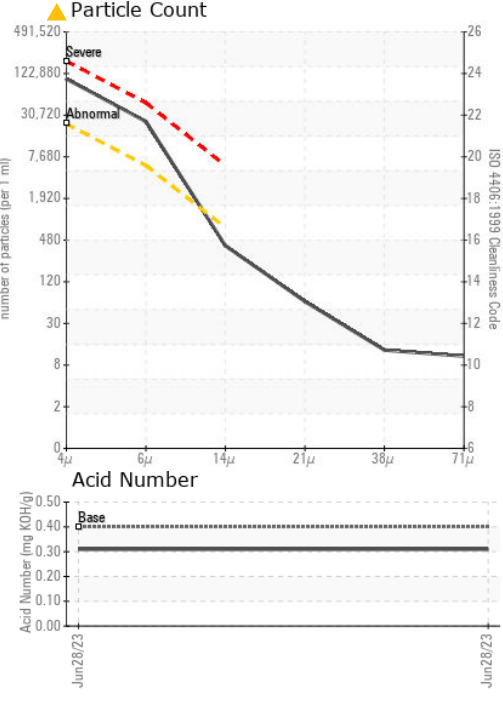
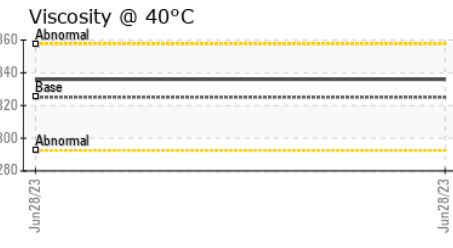
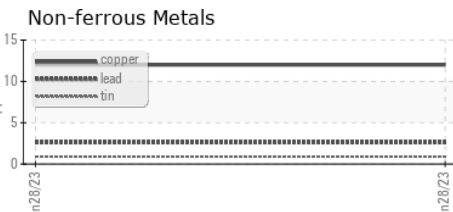
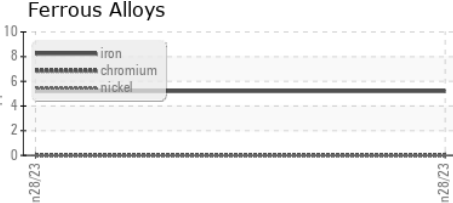


VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 40°C	cSt	ASTM D7279(m)	325	336	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	25.22	24.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	100	92	---	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CRH Canada – Ogden Point Quarry**
Sample No. : PC0062134 **Received** : 05 Jul 2023 **PO Box 160, 176 Victoria Beach Road**
Lab Number : 02568094 **Diagnosed** : 06 Jul 2023 **Colborne, ON**
Unique Number : 5605140 **Diagnostician** : Wes Davis **CA K0K 1S0**
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI) **Contact: Stephen Chisholm**
stephen.chisholm@ca.crh.com
T: (905)355-2534
F: (905)355-2667

*To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.*