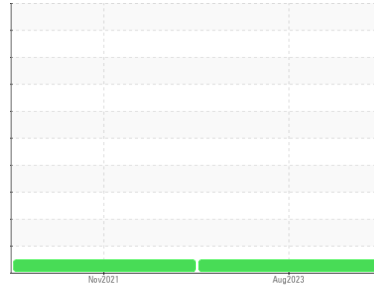


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CR246
Component
Left Final Drive
Fluid
PETRO CANADA ENDURATEX EP 220 (100 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0078043	PC0056356	---
Sample Date	Client Info	01 Aug 2023	02 Nov 2021	---
Machine Age	hrs	Client Info	0	348
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	Changed	---
Sample Status		NORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >150	16	48
Chromium	ppm	ASTM D5185(m) >10	0	<1
Nickel	ppm	ASTM D5185(m) >10	0	<1
Titanium	ppm	ASTM D5185(m)	0	0
Silver	ppm	ASTM D5185(m)	0	0
Aluminum	ppm	ASTM D5185(m) >25	<1	2
Lead	ppm	ASTM D5185(m) >100	0	<1
Copper	ppm	ASTM D5185(m) >50	<1	<1
Tin	ppm	ASTM D5185(m) >10	0	<1
Antimony	ppm	ASTM D5185(m) >5	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0
Beryllium	ppm	ASTM D5185(m)	0	0
Cadmium	ppm	ASTM D5185(m)	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 60	17	275
Barium	ppm	ASTM D5185(m) 0	0	0
Molybdenum	ppm	ASTM D5185(m) 0	0	0
Manganese	ppm	ASTM D5185(m) 0	0	<1
Magnesium	ppm	ASTM D5185(m) 0	<1	3
Calcium	ppm	ASTM D5185(m) 0	2	13
Phosphorus	ppm	ASTM D5185(m) 270	446	1064
Zinc	ppm	ASTM D5185(m) 0	2	5
Sulfur	ppm	ASTM D5185(m) 11200	5614	25202
Lithium	ppm	ASTM D5185(m)	<1	<1

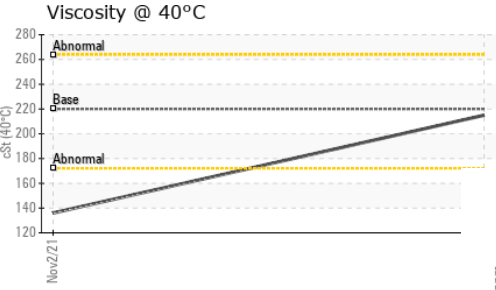
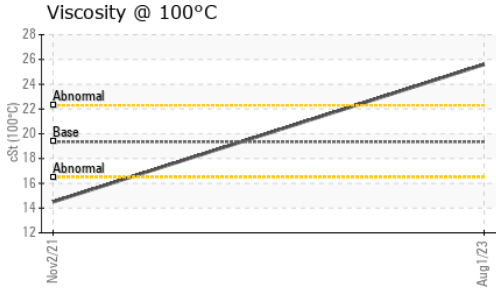
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	2	13
Sodium	ppm	ASTM D5185(m)	<1	1
Potassium	ppm	ASTM D5185(m) >20	<1	<1

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*	>0.1	NEG
Free Water	scalar	Visual*		NEG

OIL ANALYSIS REPORT

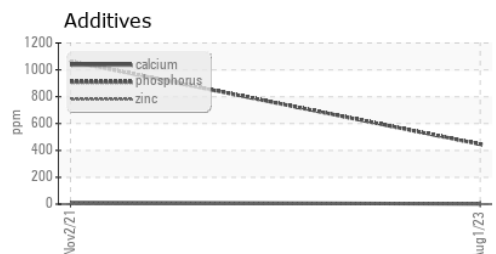
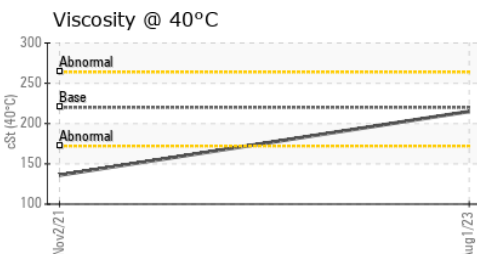
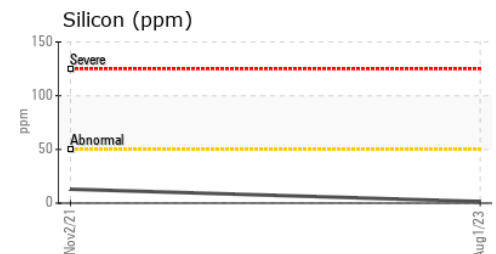
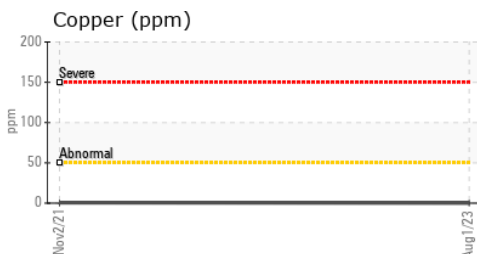
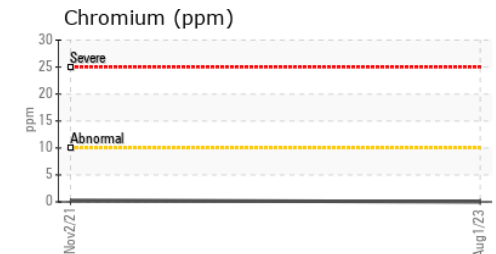
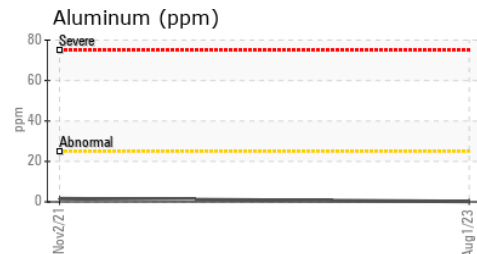
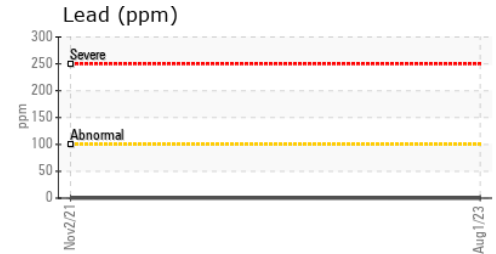
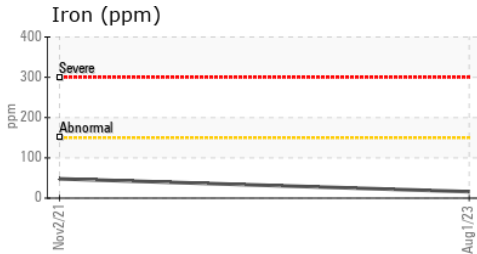


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	215	136	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	25.6	14.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	150	105	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations
Sample No. : PC0078043 **Received** : 28 Aug 2023
Lab Number : 02578890 **Diagnosed** : 29 Aug 2023
Unique Number : 5631950 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, VI)

151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Bill Acton
 bacton@gipi.com

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.

T:
 F: