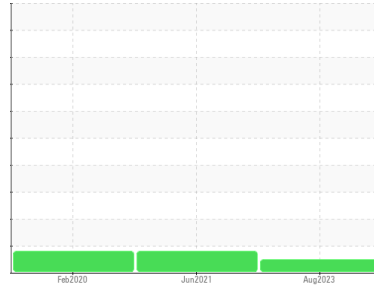


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CR253
Component
Right Final Drive
Fluid

PETRO CANADA ENDURATEX EP 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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		PC0078035	PC0047754	PC0022598
Sample Date	Client Info		04 Aug 2023	11 Jun 2021	24 Feb 2020
Machine Age	hrs	Client Info	7650	4329	3362
Oil Age	hrs	Client Info	1000	0	0
Oil Changed		Client Info	Changed	Changed	Changed
Sample Status			NORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	29	115	39
Chromium	ppm	ASTM D5185(m)	>10	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	2	<1
Silver	ppm	ASTM D5185(m)		0	<1	2
Aluminum	ppm	ASTM D5185(m)	>25	4	22	<1
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>50	3	6	6
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	60	18	17	2
Barium	ppm	ASTM D5185(m)	0	<1	1	7
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	<1	2	2
Magnesium	ppm	ASTM D5185(m)	0	4	21	1
Calcium	ppm	ASTM D5185(m)	0	30	194	27
Phosphorus	ppm	ASTM D5185(m)	270	435	405	282
Zinc	ppm	ASTM D5185(m)	0	8	6	55
Sulfur	ppm	ASTM D5185(m)	11200	5056	5681	15042
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

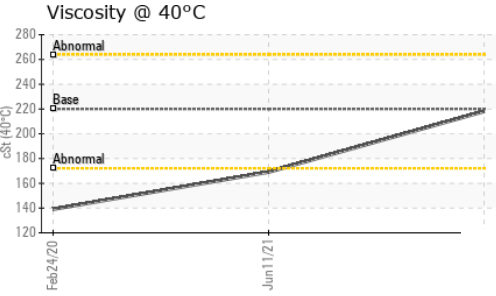
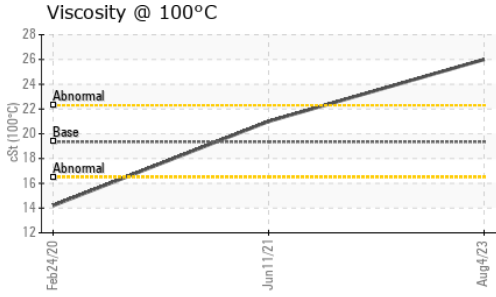
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	13	82	3
Sodium	ppm	ASTM D5185(m)		2	9	10
Potassium	ppm	ASTM D5185(m)	>20	2	9	3

VISUAL

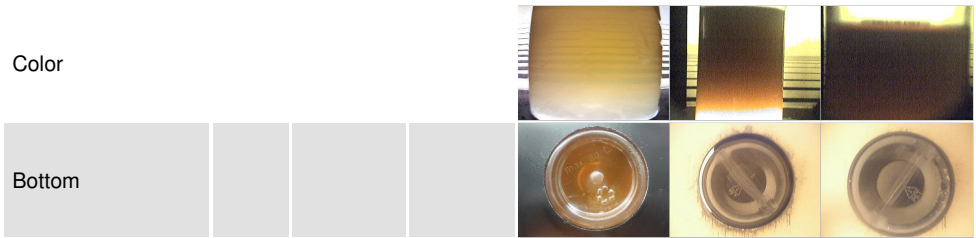
	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE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

OIL ANALYSIS REPORT

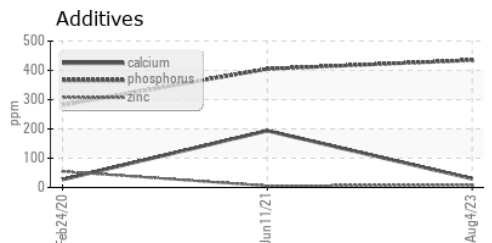
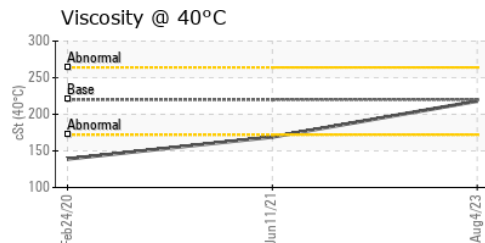
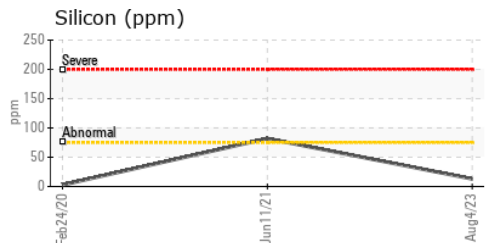
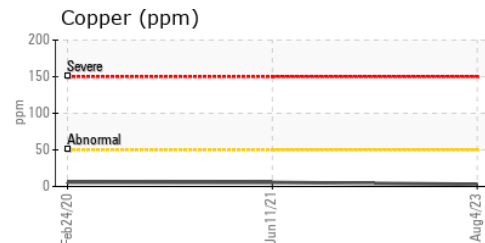
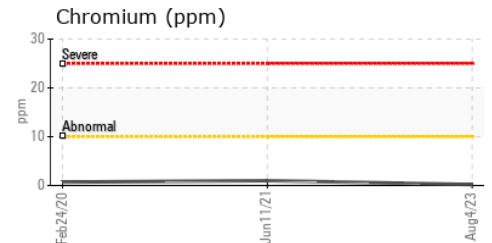
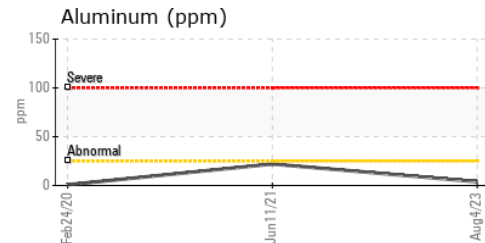
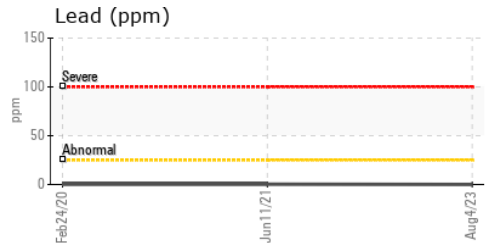
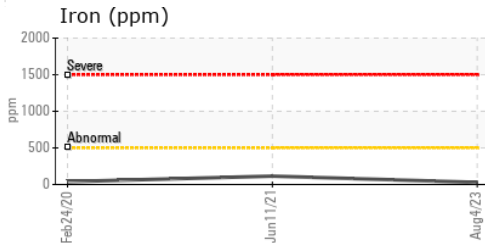


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	218	▲ 169	▲ 139
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	26.0	21.0	▲ 14.2
Viscosity Index (VI)	Scale	ASTM D2270*	99	151	▲ 146	99

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations
Sample No. : PC0078035 **Received** : 28 Aug 2023 151 Ram Forest Rd,
Lab Number : 02578892 **Diagnosed** : 29 Aug 2023 Stouffville, ON
Unique Number : 5631952 **Diagnostician** : Kevin Marson CA L4A 2G8
Test Package : MOB 1 (Additional Tests: KV100, VI) 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.