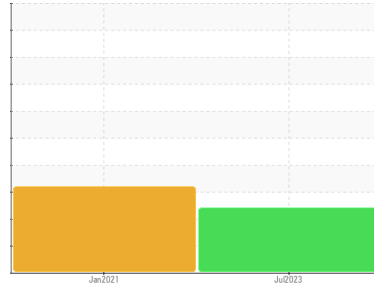


OIL ANALYSIS REPORT



Machine Id
OR917
Component
Right Final Drive
Fluid
CAT TDTO 30W (8 LTR)

Sample Rating Trend



DIAGNOSIS

- Recommendation**
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.
- Wear**
Aluminum ppm levels are noted. All other component wear rates are normal.
- Contamination**
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- Fluid Condition**
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0078056	PC0038210	---
Sample Date	Client Info		11 Jul 2023	06 Jan 2021	---
Machine Age	hrs	Client Info	7510	6925	---
Oil Age	hrs	Client Info	1000	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	309	665
Chromium	ppm	ASTM D5185(m)	>10	8	13
Nickel	ppm	ASTM D5185(m)		<1	<1
Titanium	ppm	ASTM D5185(m)		3	5
Silver	ppm	ASTM D5185(m)		0	<1
Aluminum	ppm	ASTM D5185(m)	>25	▲ 54	▲ 89
Lead	ppm	ASTM D5185(m)	>25	0	0
Copper	ppm	ASTM D5185(m)	>50	<1	1
Tin	ppm	ASTM D5185(m)	>10	0	0
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		<1	1
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)		2	2
Barium	ppm	ASTM D5185(m)		<1	0
Molybdenum	ppm	ASTM D5185(m)		5	7
Manganese	ppm	ASTM D5185(m)		3	7
Magnesium	ppm	ASTM D5185(m)		34	42
Calcium	ppm	ASTM D5185(m)	2980	3255	3378
Phosphorus	ppm	ASTM D5185(m)	1100	1096	1012
Zinc	ppm	ASTM D5185(m)	1270	1235	1269
Sulfur	ppm	ASTM D5185(m)		9145	8436
Lithium	ppm	ASTM D5185(m)		<1	<1

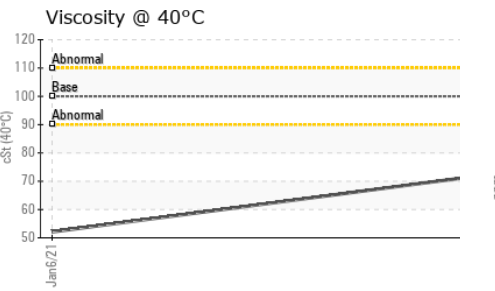
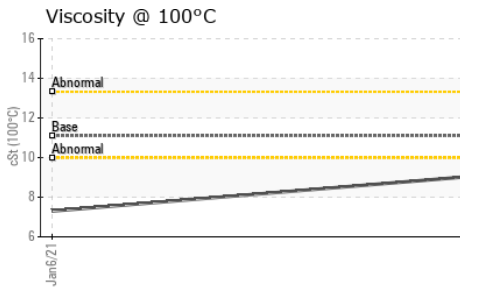
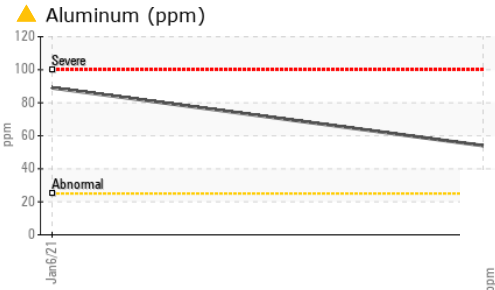
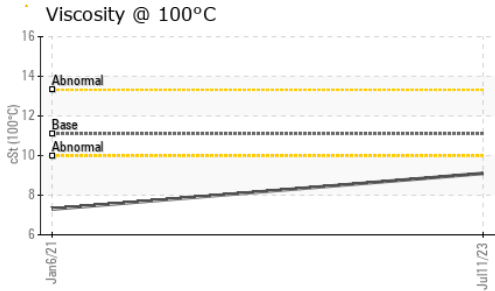
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	▲ 223	▲ 390
Sodium	ppm	ASTM D5185(m)		13	23
Potassium	ppm	ASTM D5185(m)	>20	21	37

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	LIGHT	LIGHT
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

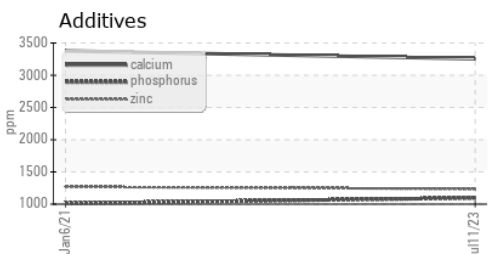
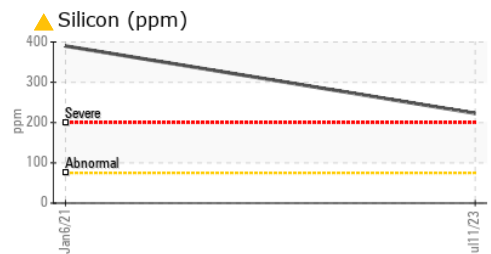
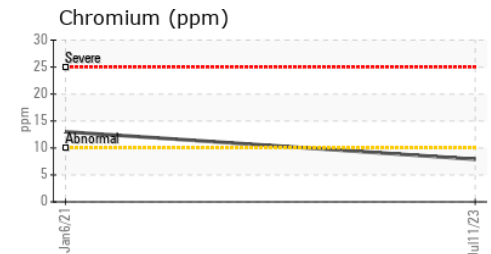
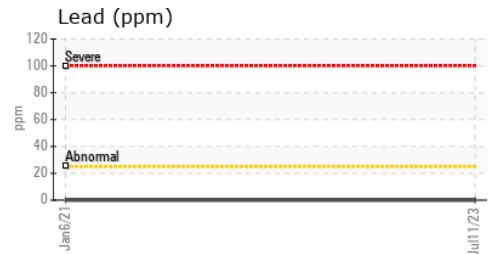
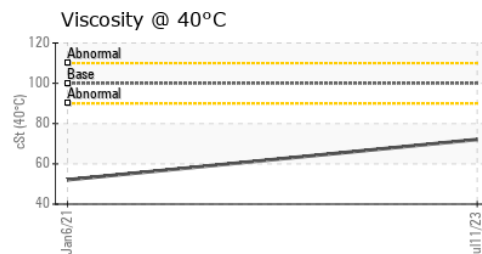
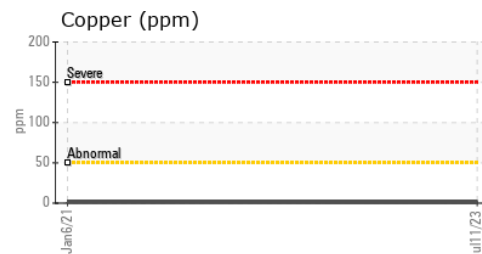
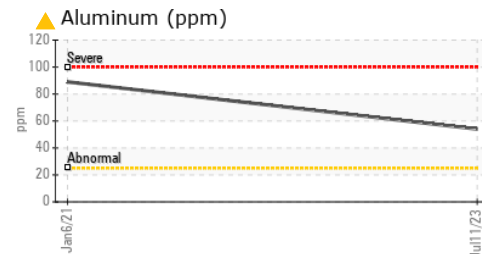
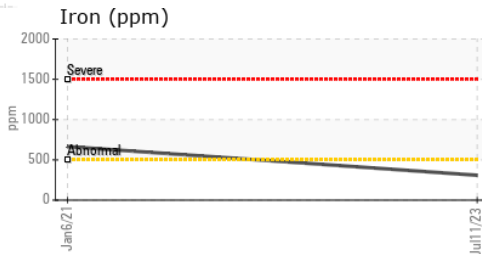
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100	72.1	▲ 52.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	9.1	▲ 7.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	95	100	98	---

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 (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0078056 **Received** : 25 Jul 2023
Lab Number : 02571992 **Diagnosed** : 26 Jul 2023
Unique Number : 5617043 **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.