

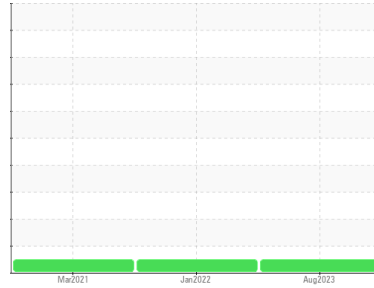
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
WL0239
Component
Front Differential
Fluid
CAT TDTO 30W (40 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0078041	PC0058710	PC0034652
Sample Date	Client Info		01 Aug 2023	10 Jan 2022	04 Mar 2021
Machine Age	hrs	Client Info	4450	2144	963
Oil Age	hrs	Client Info	1000	1000	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	136	204	253
Chromium	ppm	ASTM D5185(m)	>3	<1	1	1
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	2	4	4
Lead	ppm	ASTM D5185(m)	>13	<1	<1	1
Copper	ppm	ASTM D5185(m)	>103	9	19	41
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	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)		1	1	2
Barium	ppm	ASTM D5185(m)		<1	<1	3
Molybdenum	ppm	ASTM D5185(m)		5	4	6
Manganese	ppm	ASTM D5185(m)		2	4	6
Magnesium	ppm	ASTM D5185(m)		12	15	8
Calcium	ppm	ASTM D5185(m)	2980	2907	3011	3051
Phosphorus	ppm	ASTM D5185(m)	1100	1088	1074	1040
Zinc	ppm	ASTM D5185(m)	1270	1245	1259	1285
Sulfur	ppm	ASTM D5185(m)		9265	9180	3929
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

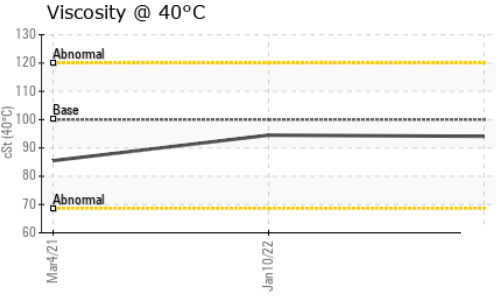
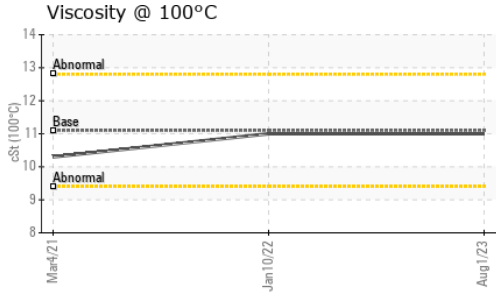
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	5	10	8
Sodium	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	LIGHT	VLITE	VLITE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

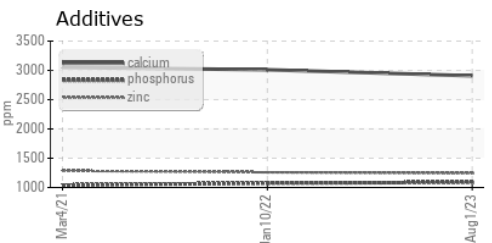
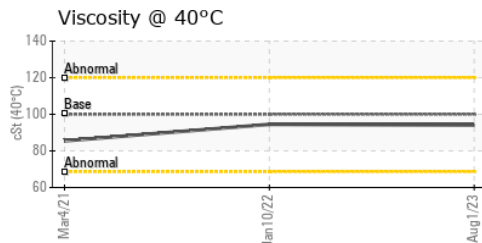
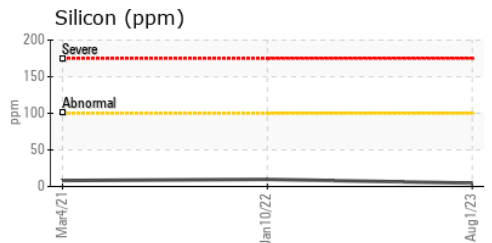
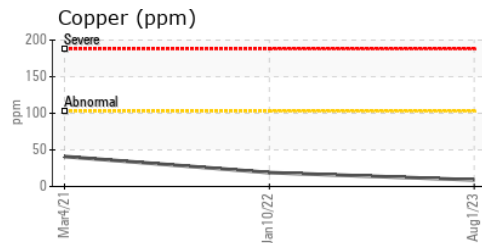
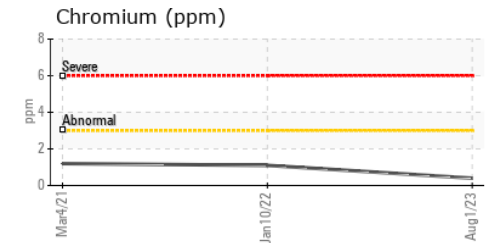
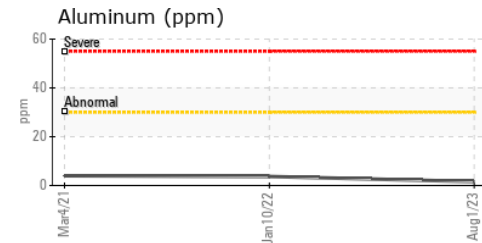
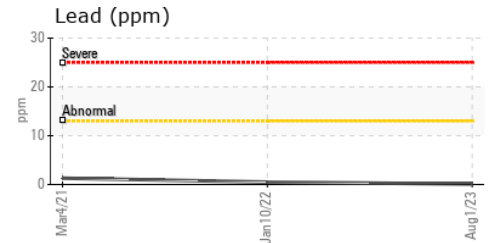
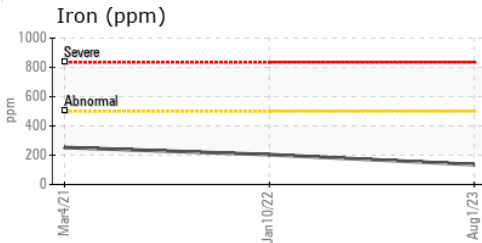
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100	94.1	94.5	85.5
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	11.0	11.0	10.3
Viscosity Index (VI)	Scale	ASTM D2270*	95	101	100	101

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0078041 **Received** : 28 Aug 2023
Lab Number : 02578897 **Diagnosed** : 28 Aug 2023
Unique Number : 5631957 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV100, VI)

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.

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