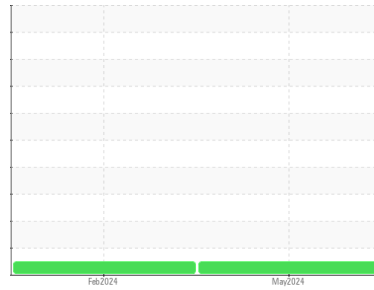




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
CR259
 Component
Diesel Engine
 Fluid
 DIESEL ENGINE OIL SAE 5W40 (--- GAL)

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			PC0081613	PC0078303	---
Sample Date	Client Info			30 May 2024	12 Feb 2024	---
Machine Age	hrs	Client Info		0	737	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

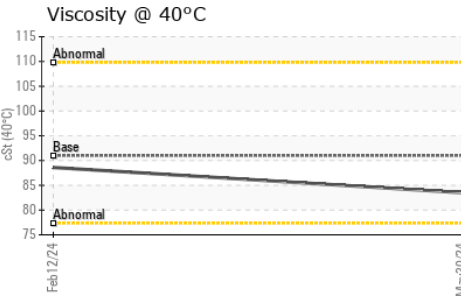
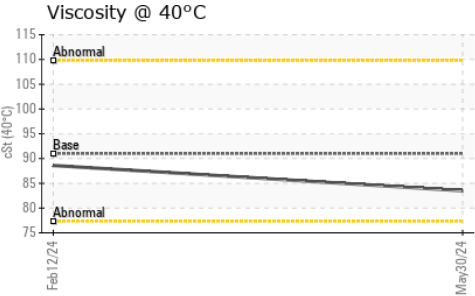
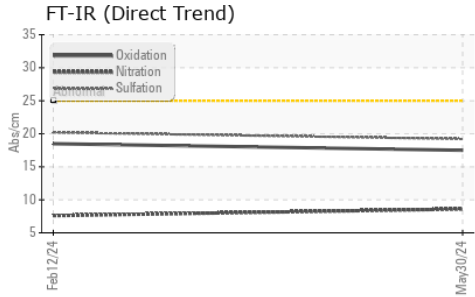
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	11	5	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	8	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	2	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Antimony	ppm	ASTM D5185(m)		0	0	---
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)	250	45	48	---
Barium	ppm	ASTM D5185(m)	10	0	0	---
Molybdenum	ppm	ASTM D5185(m)	100	52	55	---
Manganese	ppm	ASTM D5185(m)		<1	0	---
Magnesium	ppm	ASTM D5185(m)	450	1037	1053	---
Calcium	ppm	ASTM D5185(m)	3000	777	805	---
Phosphorus	ppm	ASTM D5185(m)	1150	932	979	---
Zinc	ppm	ASTM D5185(m)	1350	1089	1128	---
Sulfur	ppm	ASTM D5185(m)	4250	2583	2872	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	2	---
Sodium	ppm	ASTM D5185(m)	>44	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.6	7.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	20.2	---

OIL ANALYSIS REPORT

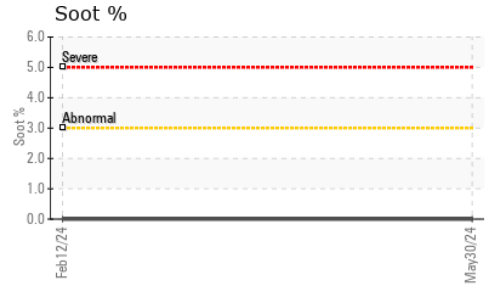
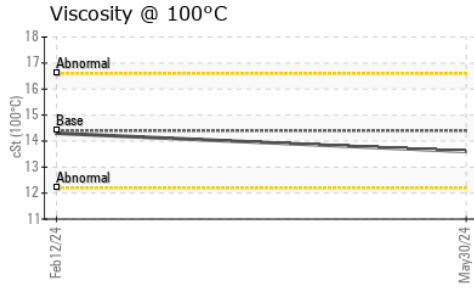
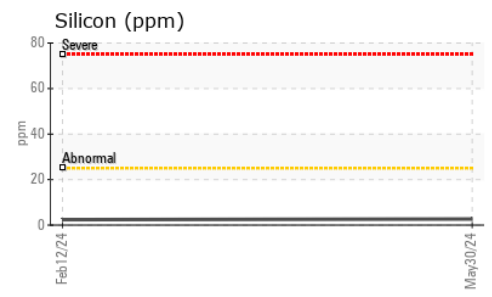
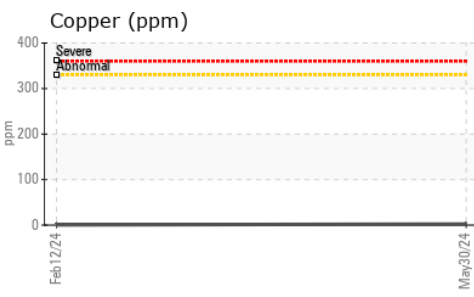
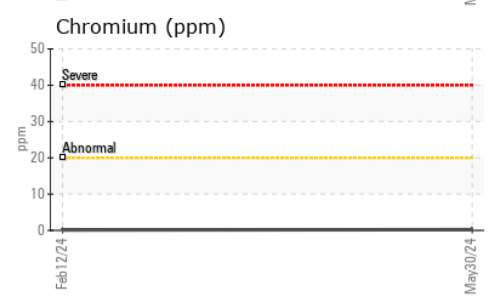
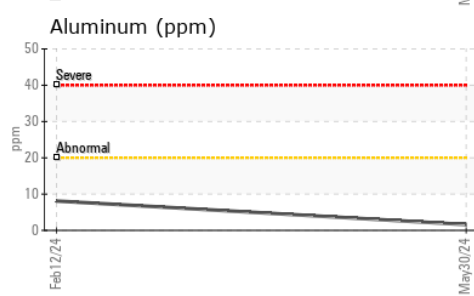
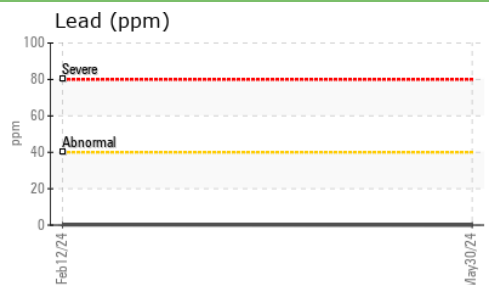
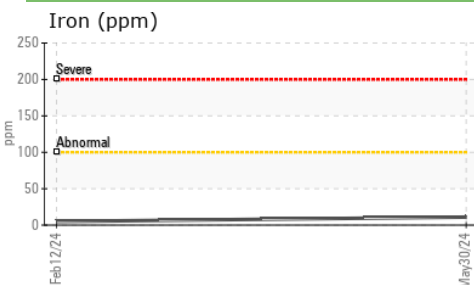


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.5	18.5	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	91	83.5	88.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.6	14.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	164	166	167	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0081613 **Received** : 10 Jun 2024
Lab Number : **02640704** **Tested** : 10 Jun 2024
Unique Number : 5789866 **Diagnosed** : 10 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI) 151 Ram Forest Rd,
Stouffville, ON
CA L4A 2G8

To discuss this sample report, contact Customer Service at 1-800-268-2131. Contact: Shannon Abbott
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. sabbott@gipi.com
 Validity of results and interpretation are based on the sample and information as supplied. T: (905)750-5900
F: