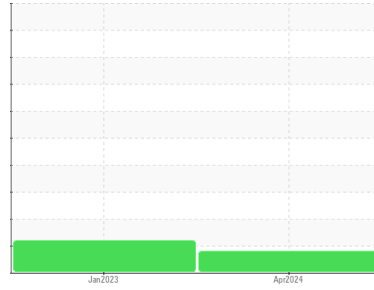




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
41
 Component
Diesel Engine
 Fluid
SAE 10W30 (--- LTR)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

▲ Contamination

Light fuel dilution occurring. No other contaminants were detected 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		WC0864608	WC0716341	---
Sample Date	Client Info		15 Apr 2024	03 Jan 2023	---
Machine Age	kms	Client Info	97928	49436	---
Oil Age	kms	Client Info	500	500	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			MARGINAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
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	16	60	---
Chromium	ppm	ASTM D5185(m)	>20	<1	1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	5	5	---
Lead	ppm	ASTM D5185(m)	>40	0	0	---
Copper	ppm	ASTM D5185(m)	>330	1	4	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Antimony	ppm	ASTM D5185(m)		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)		29	41	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		79	66	---
Manganese	ppm	ASTM D5185(m)		5	4	---
Magnesium	ppm	ASTM D5185(m)		535	451	---
Calcium	ppm	ASTM D5185(m)		1159	1244	---
Phosphorus	ppm	ASTM D5185(m)		718	715	---
Zinc	ppm	ASTM D5185(m)		804	703	---
Sulfur	ppm	ASTM D5185(m)		2468	3237	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

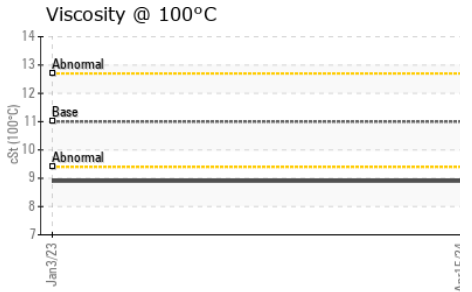
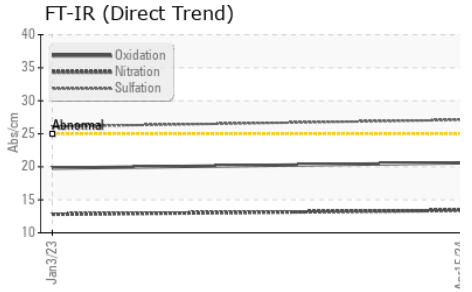
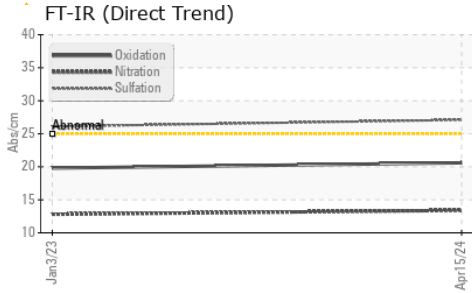
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	12	20	---
Sodium	ppm	ASTM D5185(m)	>228	5	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel	%	ASTM D7593*	>5	▲ 3.7	▲ 7.6	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	13.4	12.8	---
Sulfation	Abs./1mm	ASTM D7415*	>30	27.1	26.1	---



OIL ANALYSIS REPORT

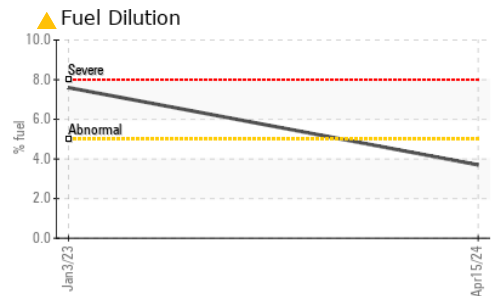
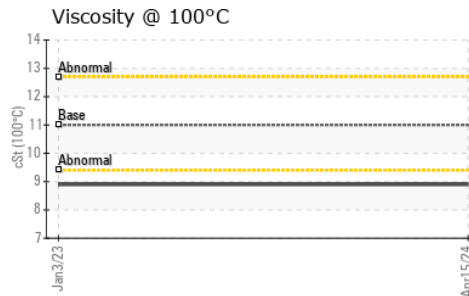
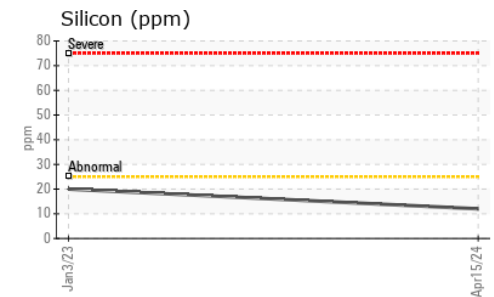
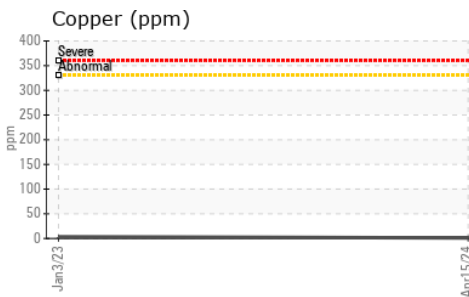
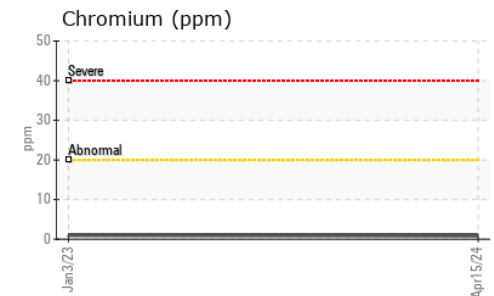
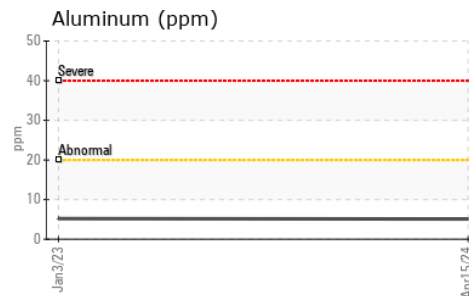
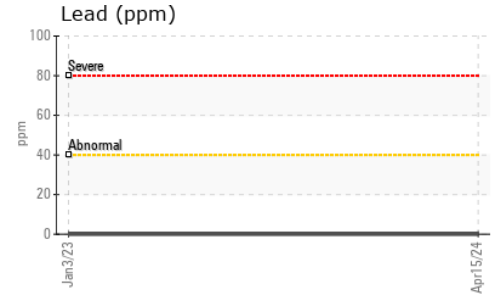
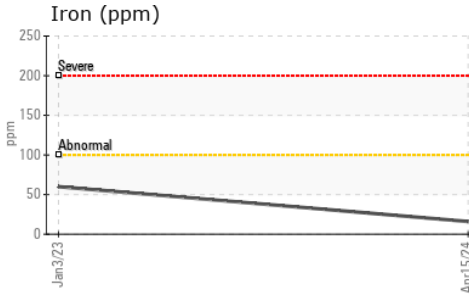


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	20.6	19.8	---

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 @ 100°C	cSt	ASTM D7279(m)	11.0	8.9	▲ 8.9	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0864608 **Received** : 16 Apr 2024
Lab Number : **02629173** **Tested** : 17 Apr 2024
Unique Number : 5762305 **Diagnosed** : 17 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

COLACEM CANADA INC
 56 RUE LONGUEUIL CP 301
 L'ORIGINAL, ON
 CA K0B 1K0
 Contact: Gabriel Parent
 gparent@colacem.ca

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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