



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
74959512
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0022780	CU0019559	---
Sample Date		Client Info		28 Apr 2024	14 Jun 2023	---
Machine Age	hrs	Client Info		0	509	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	30	27	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	1	---
Lead	ppm	ASTM D5185(m)	>40	0	4	---
Copper	ppm	ASTM D5185(m)	>330	2	49	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

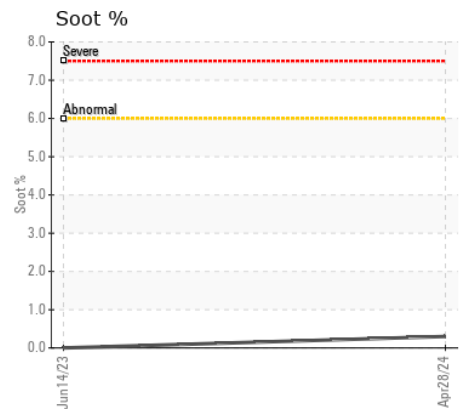
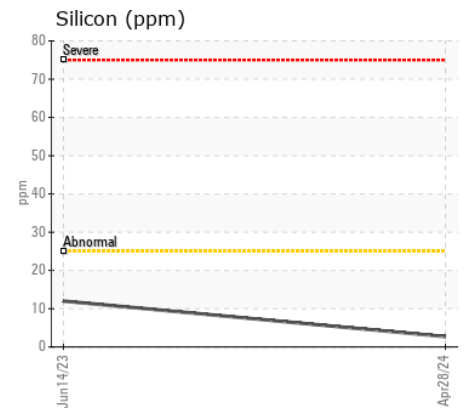
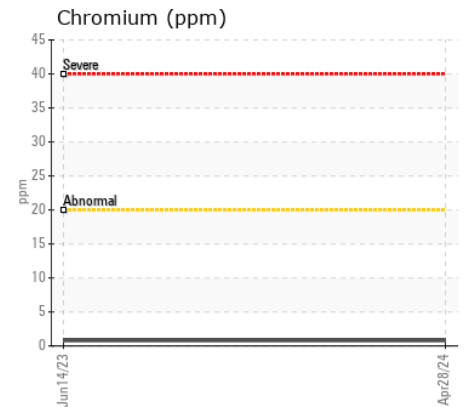
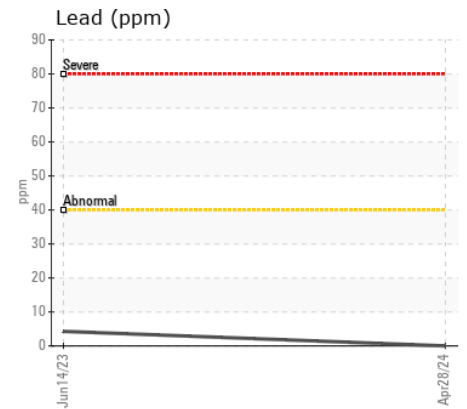
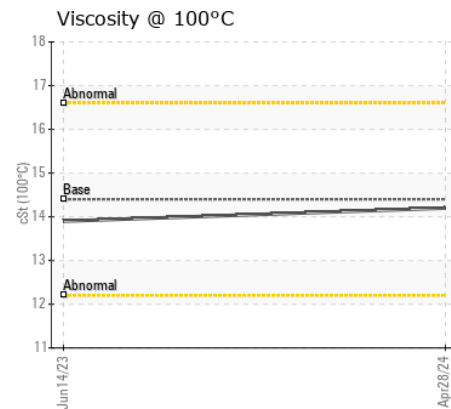
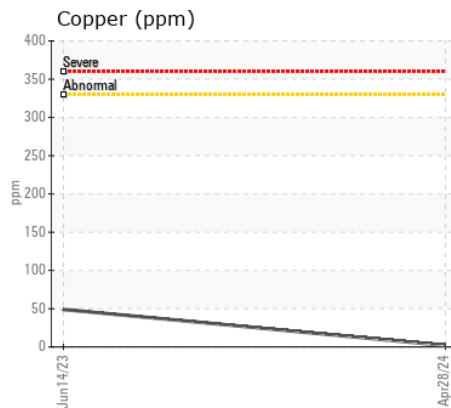
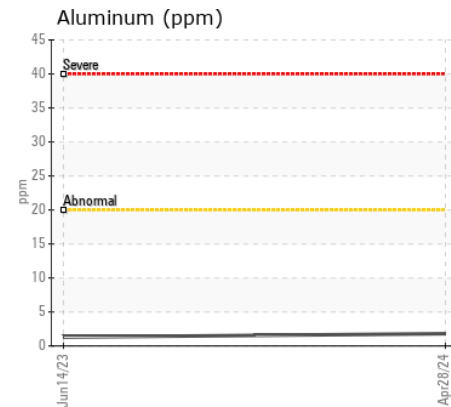
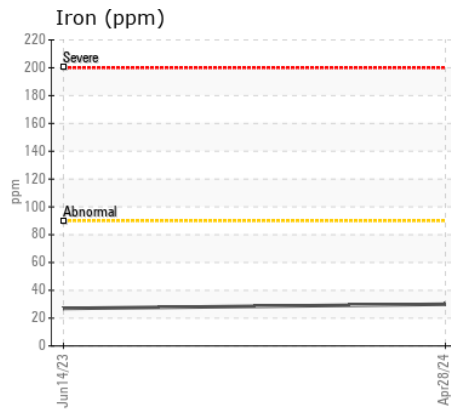
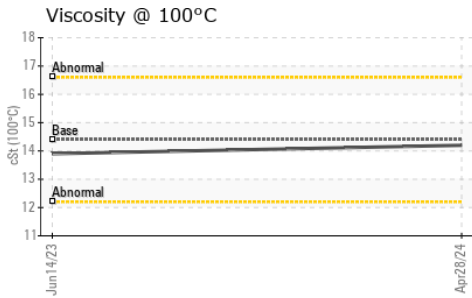
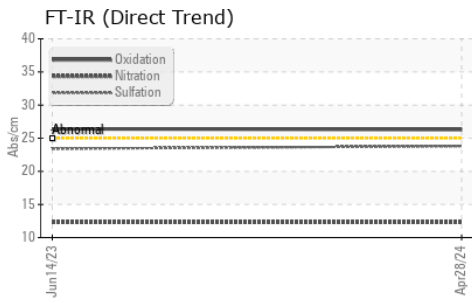
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	12	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0.3	0	---
Nitration	Abs/cm	ASTM D7624*	>20	12.3	12.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8	23.4	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>44	4	6	---
Boron	ppm	ASTM D5185(m)	250	39	39	---
Barium	ppm	ASTM D5185(m)	10	0	5	---
Molybdenum	ppm	ASTM D5185(m)	100	66	58	---
Manganese	ppm	ASTM D5185(m)		<1	4	---
Magnesium	ppm	ASTM D5185(m)	450	1116	1074	---
Calcium	ppm	ASTM D5185(m)	3000	943	882	---
Phosphorus	ppm	ASTM D5185(m)	1150	955	977	---
Zinc	ppm	ASTM D5185(m)	1350	1170	1141	---
Sulfur	ppm	ASTM D5185(m)	4250	2530	2527	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.3	26.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.2	13.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022780
Lab Number : 02631885
Unique Number : 5773038
Test Package : MOB 1

Received : 29 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 30 Apr 2024 - Kevin Marson

CUMMINS CANADA ULC - GENERATOR DIVISION
 7175 PACIFIC CIRCLE
 MISSISSAUGA, ON
 CA L5T 2A5
 Contact: Elisia Johnson
 elisia.johnson@cummins.com
 T: (905)795-0050
 F: (905)795-9252

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.