



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TERANET [151250]
Machine Id
G050809865
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0020031	CU0022216	CU0019973
Sample Date		Client Info		20 Jan 2024	16 Dec 2023	26 Nov 2023
Machine Age	hrs	Client Info		518	517	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

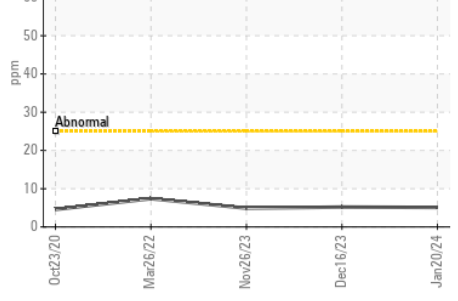
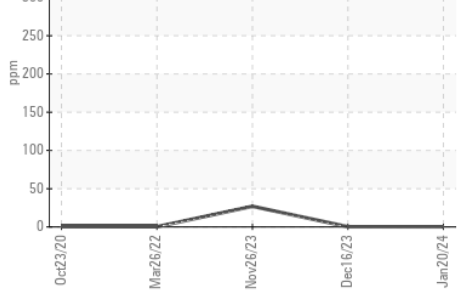
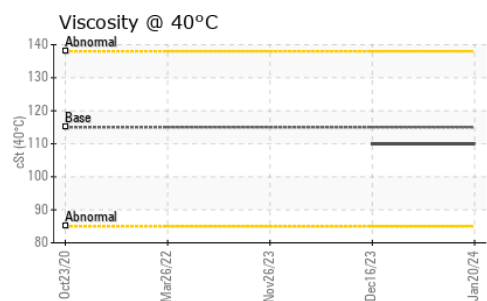
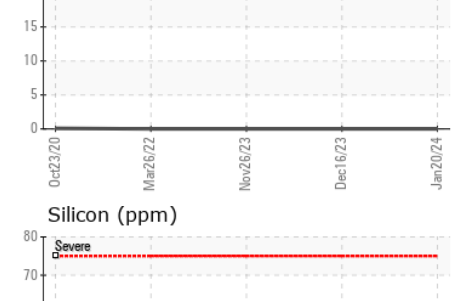
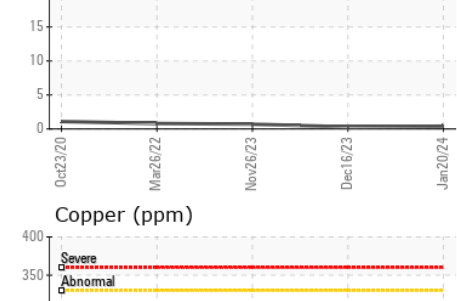
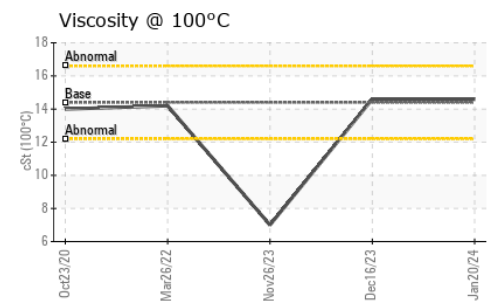
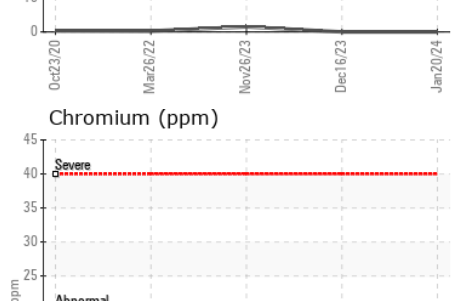
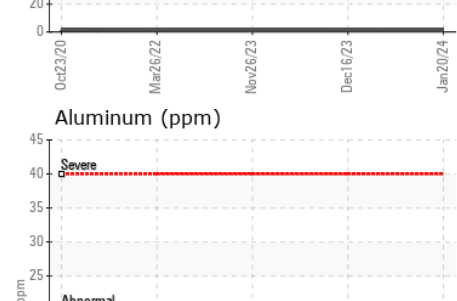
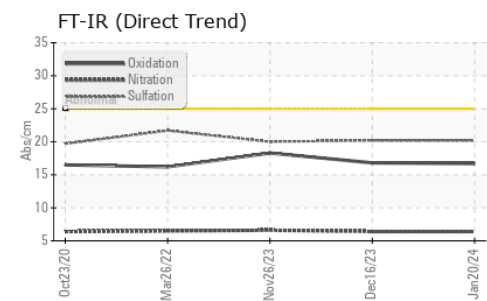
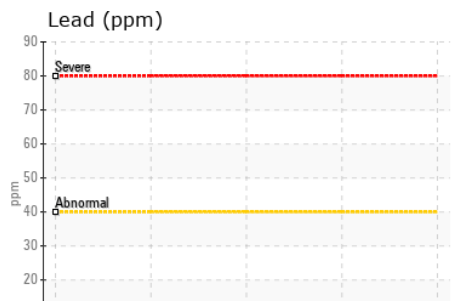
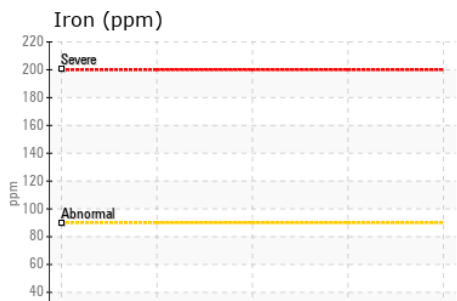
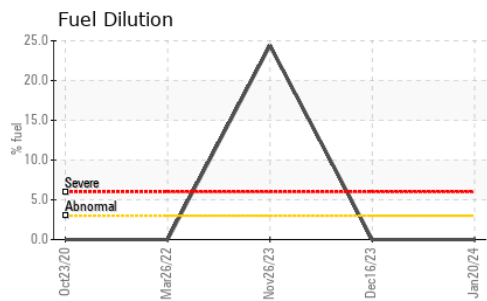
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel	%	ASTM D7593*	>3.0	0.0	0.0	▲ 24.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.4	6.4	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	20.2	20.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	3	3	3
Boron	ppm	ASTM D5185(m)	250	46	46	32
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	46	46	36
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	450	790	786	620
Calcium	ppm	ASTM D5185(m)	3000	1185	1195	▲ 883
Phosphorus	ppm	ASTM D5185(m)	1150	710	710	▲ 533
Zinc	ppm	ASTM D5185(m)	1350	825	830	▲ 628
Sulfur	ppm	ASTM D5185(m)	4250	1987	1959	▲ 1477
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	16.8	18.3
Visc @ 40°C	cSt	ASTM D7279(m)	115	110	110	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.6	14.6	▲ 7
Viscosity Index (VI)	Scale	ASTM D2270*	126	136	136	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS CANADA ULC - GENERATOR DIVISION**
Sample No. : CU0020031 **Received** : 10 Jun 2024 7175 PACIFIC CIRCLE
Lab Number : 02640832 **Tested** : 11 Jun 2024 MISSISSAUGA, ON
Unique Number : 5789994 **Diagnosed** : 11 Jun 2024 - Wes Davis CA L5T 2A5
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) Contact: Elisia Johnson
 To discuss this sample report, contact Customer Service at 1-800-268-2131. elisia.johnson@cummins.com
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)795-0050
 Validity of results and interpretation are based on the sample and information as supplied. F: (905)795-9252