



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TERANET [152251]
Machine Id
GENERATOR #1
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		CU0019967	CU0022257	CU0019012
Sample Date		Client Info		20 Jan 2024	26 Nov 2023	23 Apr 2022
Machine Age	hrs	Client Info		232	228	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	SEVERE	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	1	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>40	0	1	<1
Copper	ppm	ASTM D5185(m)	>330	23	23	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

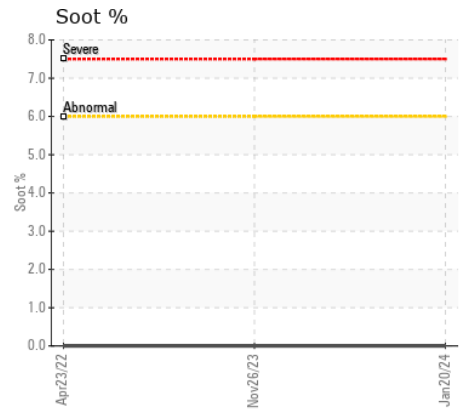
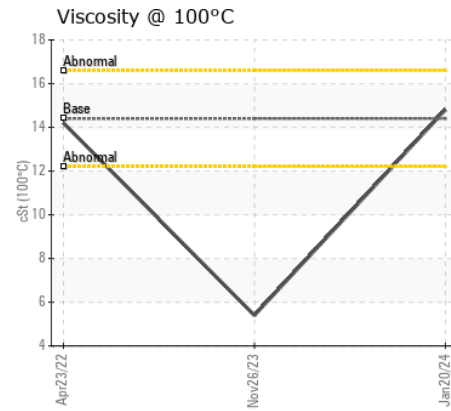
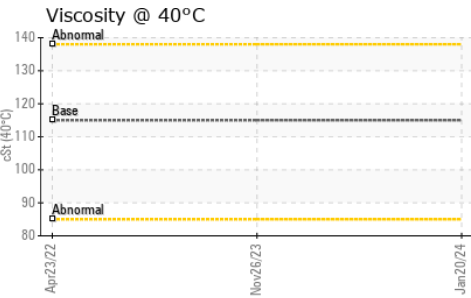
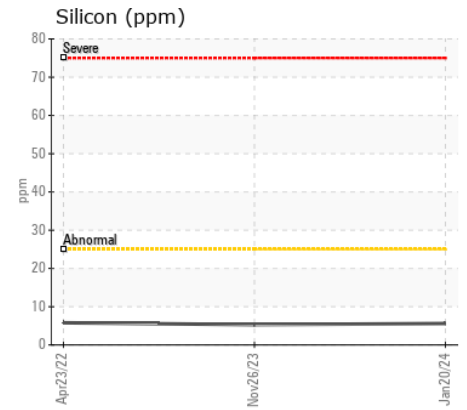
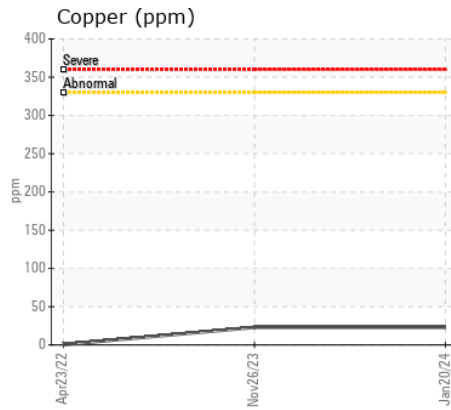
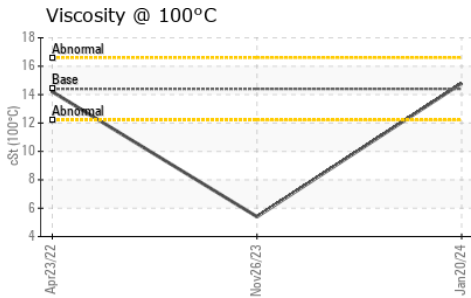
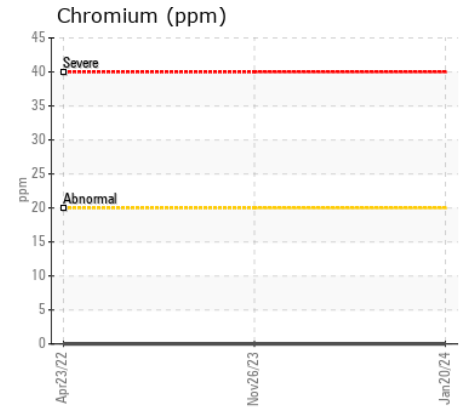
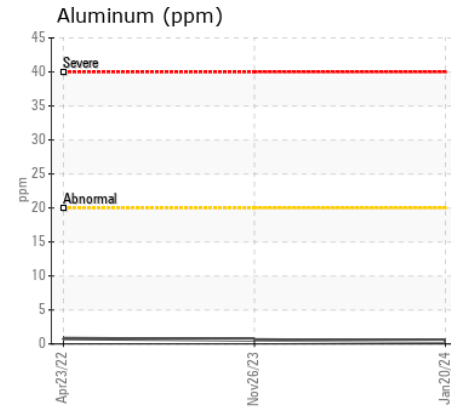
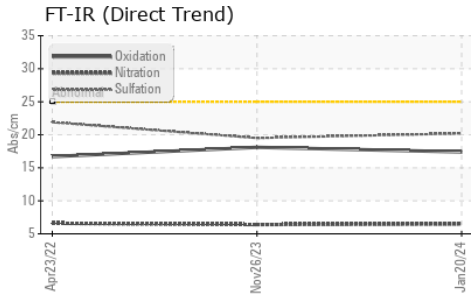
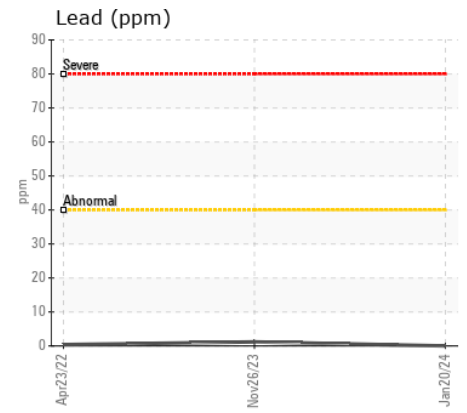
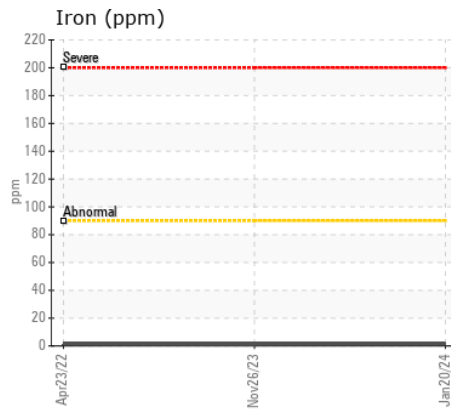
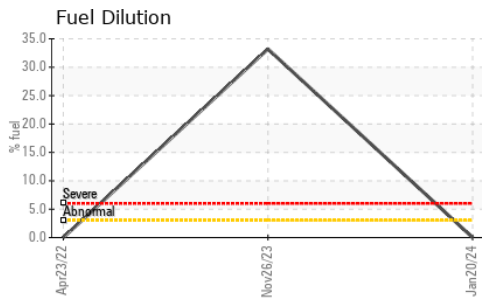
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	6
Potassium	ppm	ASTM D5185(m)	>20	0	0	2
Fuel	%	ASTM D7593*	>3.0	0.0	▲ 33.2	<1.0
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	6.5	6.4	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	19.5	21.9
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	2	3
Boron	ppm	ASTM D5185(m)	250	44	29	45
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	46	31	41
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	804	544	702
Calcium	ppm	ASTM D5185(m)	3000	1167	▲ 768	1286
Phosphorus	ppm	ASTM D5185(m)	1150	701	▲ 472	812
Zinc	ppm	ASTM D5185(m)	1350	815	▲ 549	895
Sulfur	ppm	ASTM D5185(m)	4250	1933	▲ 1311	2136
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	18.1	16.7
Visc @ 40°C	cSt	ASTM D7279(m)	115	112	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.8	▲ 5.4	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	126	136	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0019967
Lab Number : 02640849
Unique Number : 5798388
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)

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.