



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TERANET [150294]
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		CU0022216	CU0019973	CU0019014
Sample Date		Client Info		16 Dec 2023	26 Nov 2023	26 Mar 2022
Machine Age	hrs	Client Info		517	0	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	0	<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	2	<1
Copper	ppm	ASTM D5185(m)	>330	<1	27	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

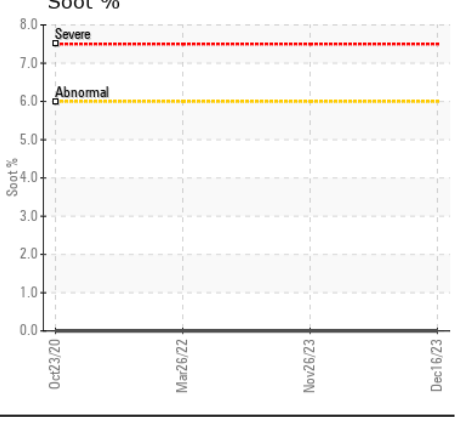
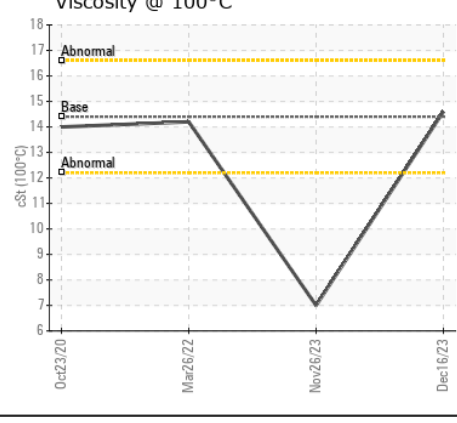
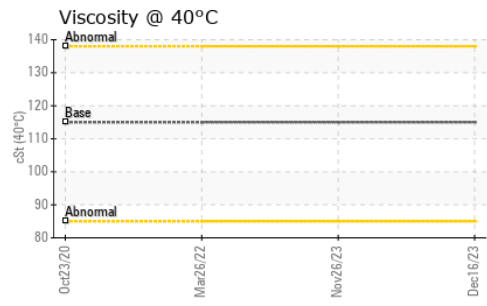
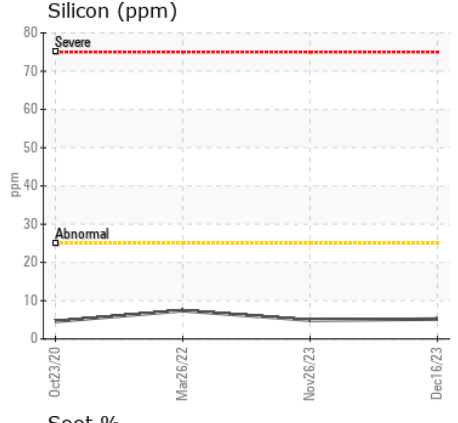
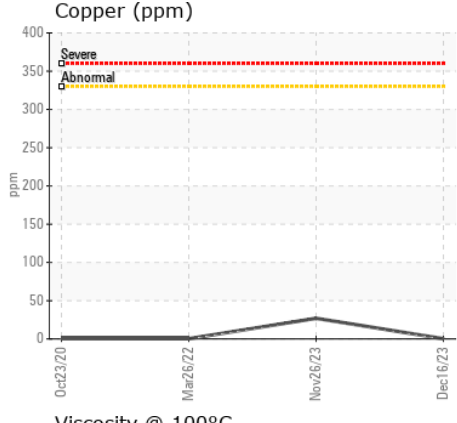
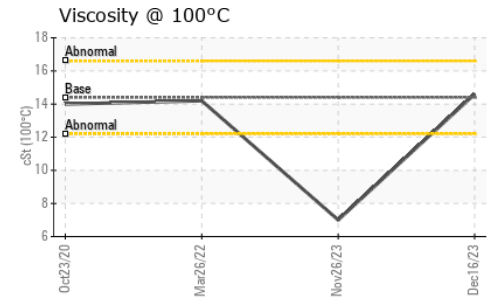
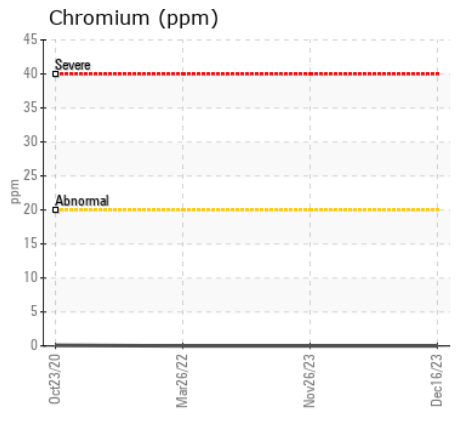
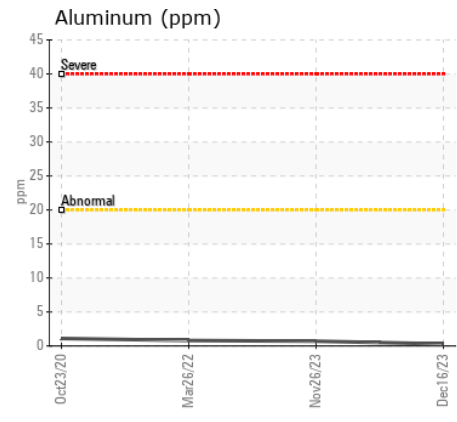
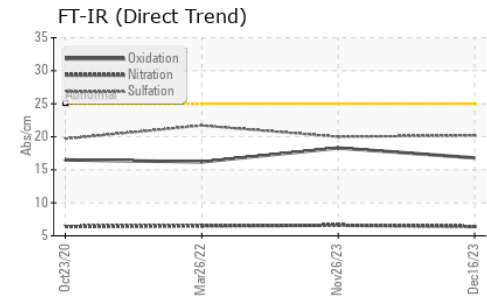
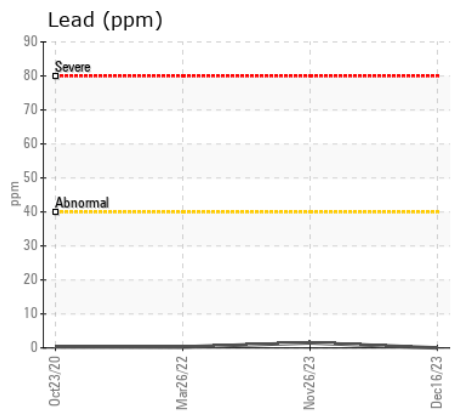
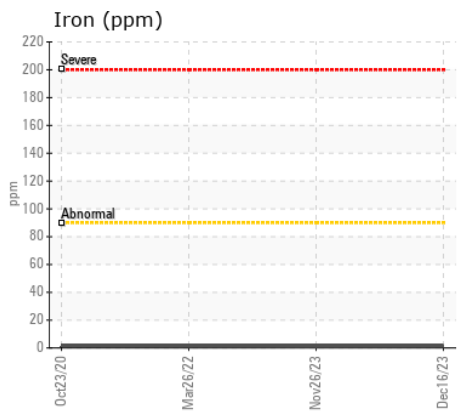
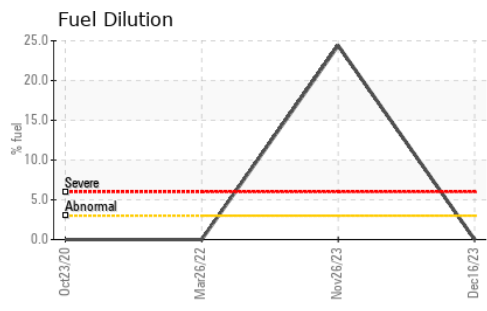
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	7
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel	%	ASTM D7593*	>3.0	0.0	▲ 24.4	<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	6.4	6.6	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	20.0	21.7
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	32	41
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	46	36	40
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	786	620	699
Calcium	ppm	ASTM D5185(m)	3000	1195	▲ 883	1288
Phosphorus	ppm	ASTM D5185(m)	1150	710	▲ 533	772
Zinc	ppm	ASTM D5185(m)	1350	830	▲ 628	861
Sulfur	ppm	ASTM D5185(m)	4250	1959	▲ 1477	2114
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	18.3	16.2
Visc @ 40°C	cSt	ASTM D7279(m)	115	110	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.6	▲ 7	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	126	136	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022216 **Received** : 10 Jun 2024
Lab Number : 02640845 **Tested** : 11 Jun 2024
Unique Number : 5798384 **Diagnosed** : 11 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)

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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.