



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[43412563]
 Machine Id
9489
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0853470	WC0853029	WC0737713
Sample Date		Client Info		24 Feb 2024	22 Jan 2024	23 Oct 2022
Machine Age	kms	Client Info		534245	529416	460437
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Not Chngd	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	13	25	56
Chromium	ppm	ASTM D5185(m)	>20	<1	1	6
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	122
Lead	ppm	ASTM D5185(m)	>40	<1	7	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

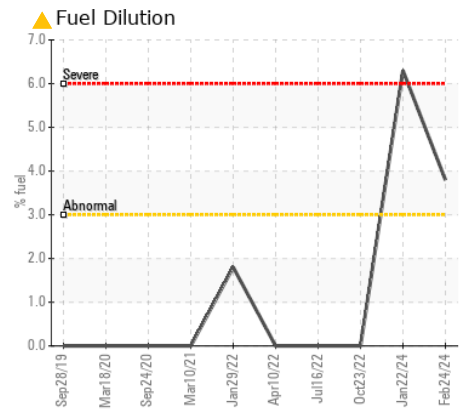
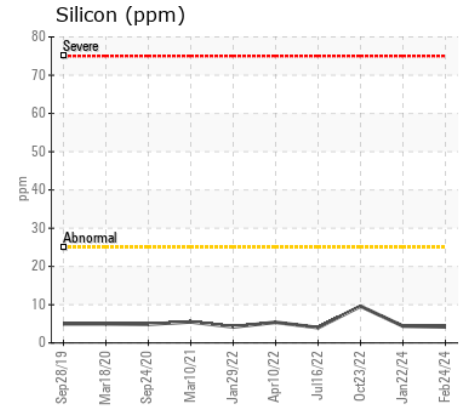
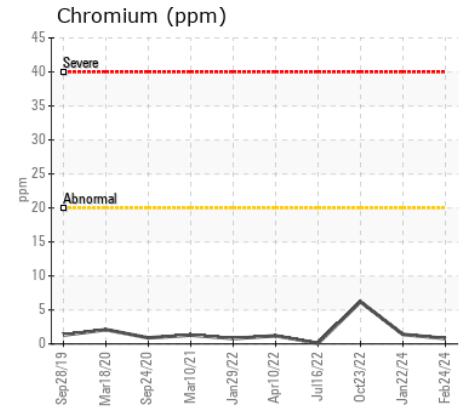
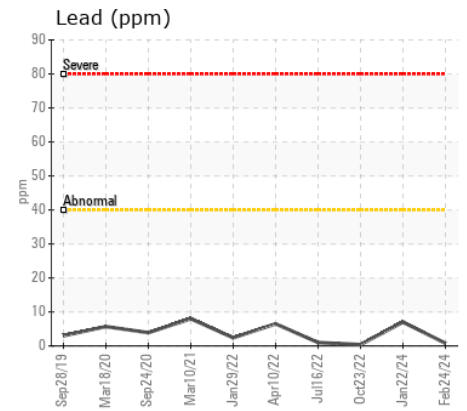
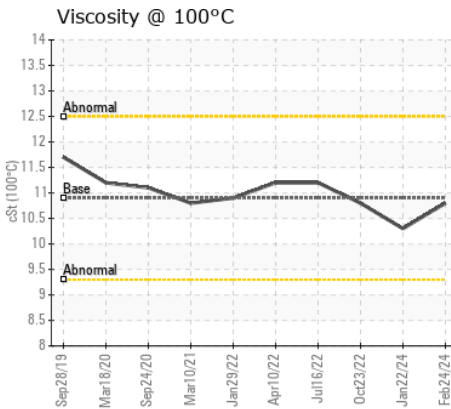
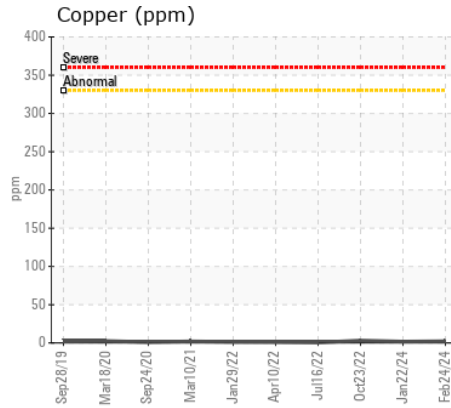
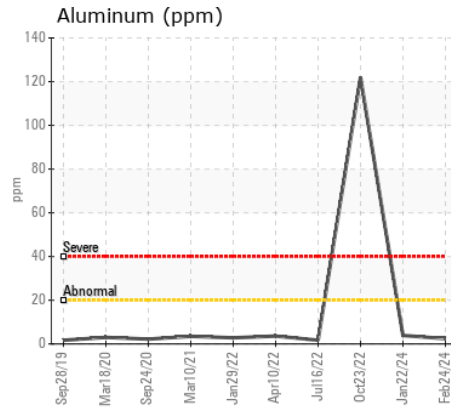
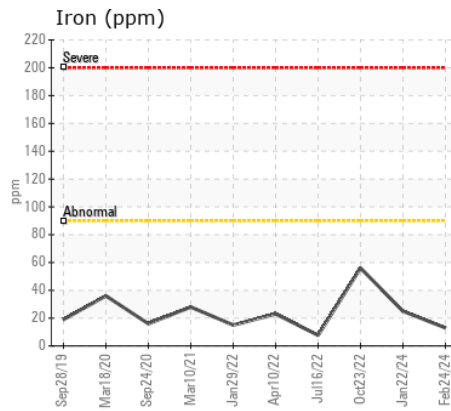
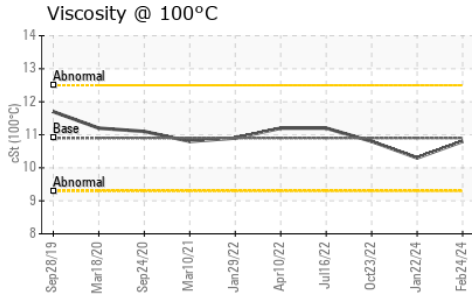
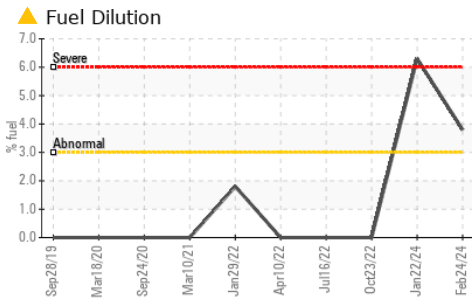
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	10
Potassium	ppm	ASTM D5185(m)	>20	4	3	219
Fuel	%	ASTM D7593*	>3.0	▲ 3.8	▲ 6.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.8	11.3	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	24.3	24.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		2	2	4
Boron	ppm	ASTM D5185(m)	250	68	33	30
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	<1	4
Manganese	ppm	ASTM D5185(m)		0	0	2
Magnesium	ppm	ASTM D5185(m)	450	700	678	698
Calcium	ppm	ASTM D5185(m)	3000	1277	1259	1376
Phosphorus	ppm	ASTM D5185(m)	1150	680	649	708
Zinc	ppm	ASTM D5185(m)	1350	743	718	755
Sulfur	ppm	ASTM D5185(m)	4250	2583	2463	2532
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.6	21.6	19.8
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.8	▲ 10.3	▲ 10.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853470 **Received** : 05 Mar 2024
Lab Number : 02619880 **Tested** : 06 Mar 2024
Unique Number : 5736990 **Diagnosed** : 06 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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