



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
7212
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. 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		WC0924051	WC0853385	WC0737762
Sample Date		Client Info		17 Apr 2024	13 Sep 2023	20 Dec 2022
Machine Age	kms	Client Info		502702	489841	475804
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	Not Chngd	Not Chngd
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	40	16	28
Chromium	ppm	ASTM D5185(m)	>20	2	<1	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	3
Lead	ppm	ASTM D5185(m)	>40	5	2	9
Copper	ppm	ASTM D5185(m)	>330	2	5	4
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

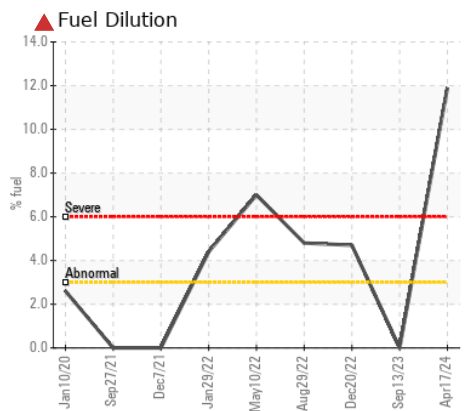
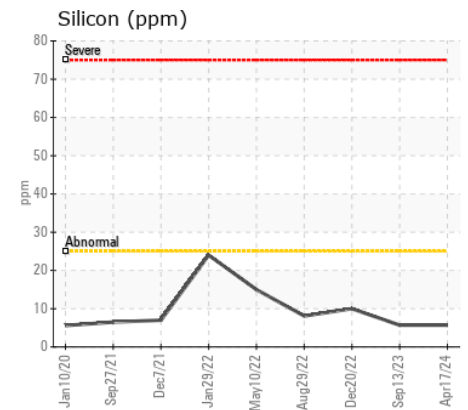
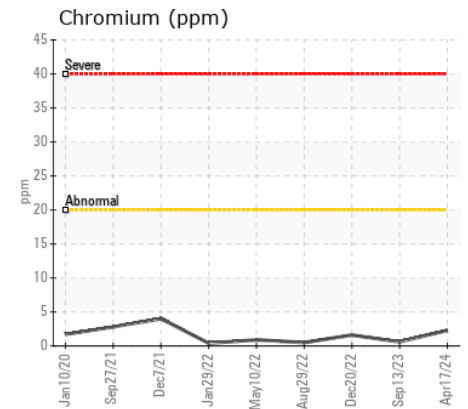
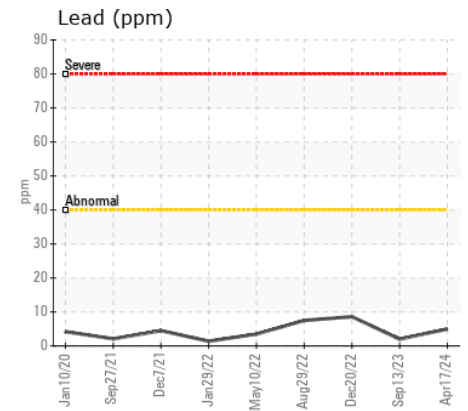
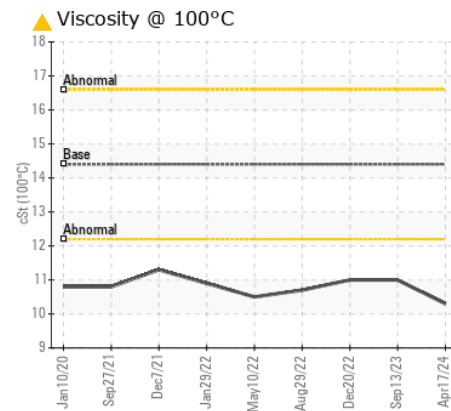
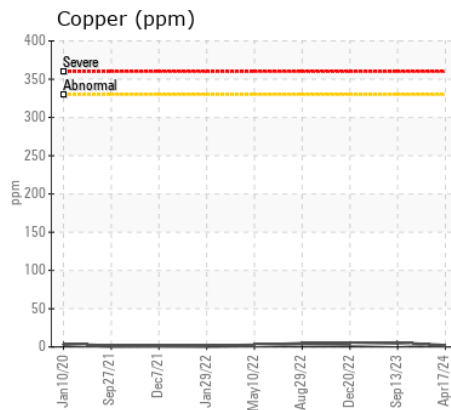
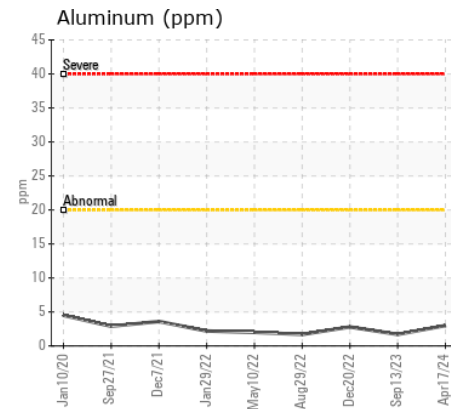
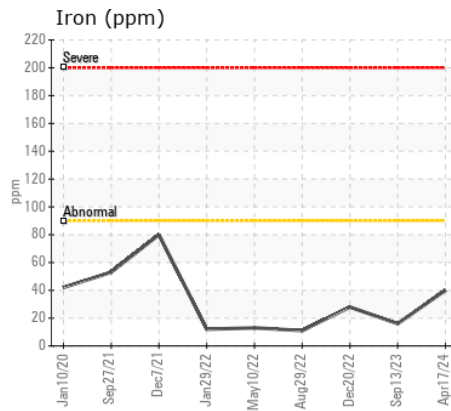
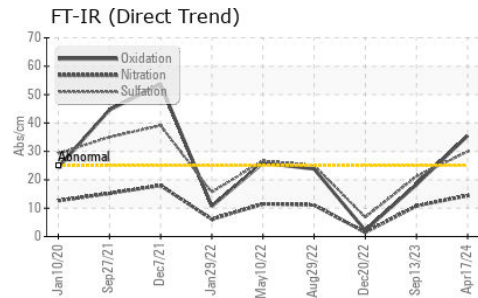
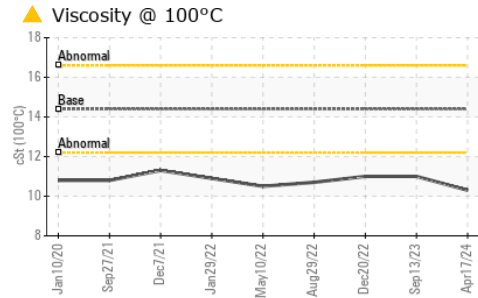
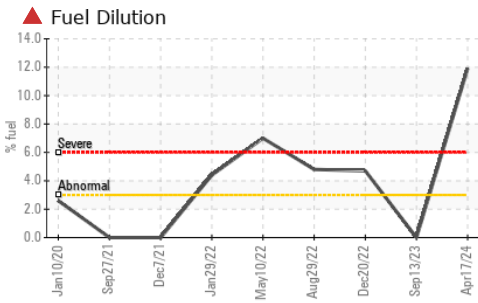
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	6	10
Potassium	ppm	ASTM D5185(m)	>20	3	2	4
Fuel	%	ASTM D7593*	>3.0	▲ 11.9	<1.0	▲ 4.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.5	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	14.4	10.8	1.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.9	21.2	6.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>158	3	3	4
Boron	ppm	ASTM D5185(m)	250	32	50	37
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<1	1	3
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	617	715	651
Calcium	ppm	ASTM D5185(m)	3000	1135	1299	1301
Phosphorus	ppm	ASTM D5185(m)	1150	571	718	677
Zinc	ppm	ASTM D5185(m)	1350	642	762	736
Sulfur	ppm	ASTM D5185(m)	4250	2015	2444	2396
Oxidation	Abs/.1mm	ASTM D7414*	>25	35.5	18.3	2.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 10.3	▲ 11.0	▲ 11.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924051 **Received** : 29 Apr 2024
Lab Number : 02631802 **Tested** : 30 Apr 2024
Unique Number : 5772955 **Diagnosed** : 01 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, 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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