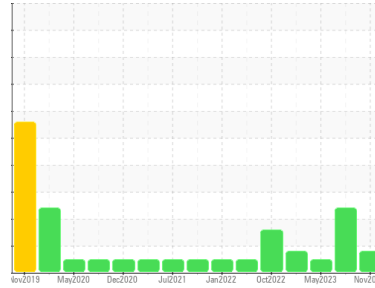




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
9392

Component
Diesel Engine

Fluid
CHEVRON DELO 400 SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

Contamination

Test for glycol is negative. There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0853194	WC0796447	WC0796465
Sample Date	Client Info		01 Nov 2023	20 Jul 2023	24 May 2023
Machine Age	kms	Client Info	145489	135539	135004
Oil Age	kms	Client Info	0	0	5393
Oil Changed	Client Info		Not Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>130	27	61	15
Chromium	ppm	ASTM D5185(m)	>10	2	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	▲ 22	10	17
Lead	ppm	ASTM D5185(m)	>20	<1	4	<1
Copper	ppm	ASTM D5185(m)	>125	3	3	1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		37	31	54
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		3	59	7
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		712	723	732
Calcium	ppm	ASTM D5185(m)		1348	1374	1472
Phosphorus	ppm	ASTM D5185(m)	1260	676	708	793
Zinc	ppm	ASTM D5185(m)	1400	754	777	797
Sulfur	ppm	ASTM D5185(m)		2666	2667	2732
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

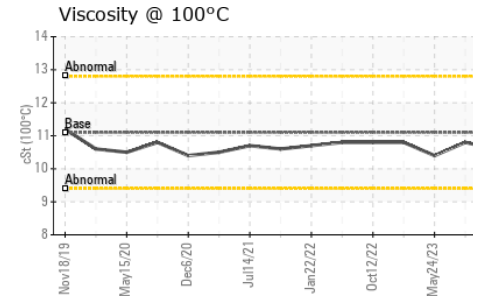
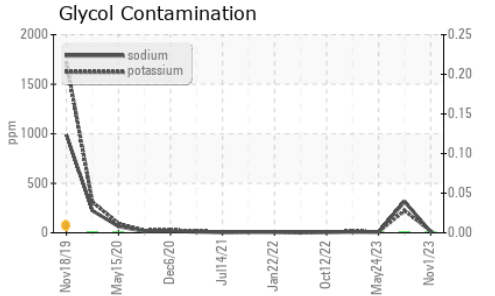
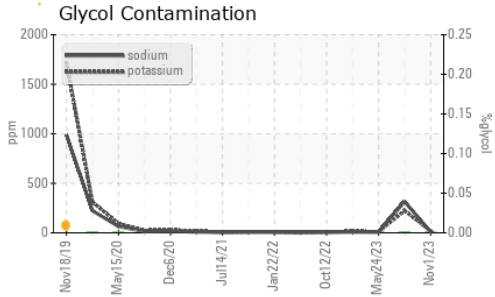
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	5	6	5
Sodium	ppm	ASTM D5185(m)		10	▲ 314	6
Potassium	ppm	ASTM D5185(m)	>20	20	▲ 221	11
Glycol	%	ASTM D7922*		0.0	0.0	0.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.5	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	11.3	12.6	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	24.9	20.5

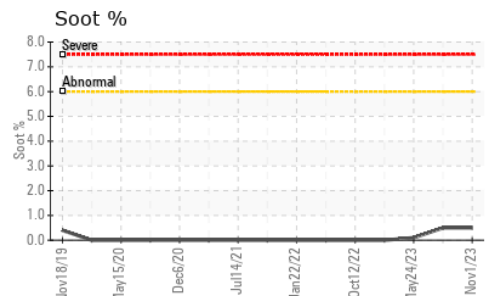
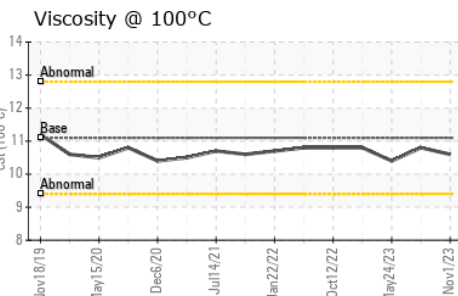
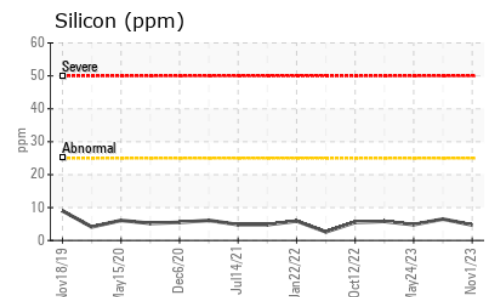
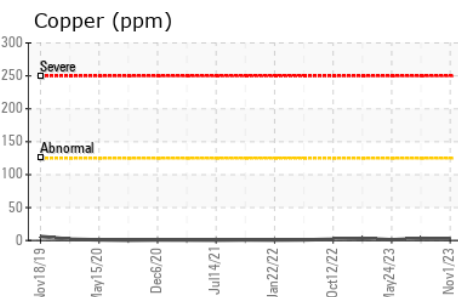
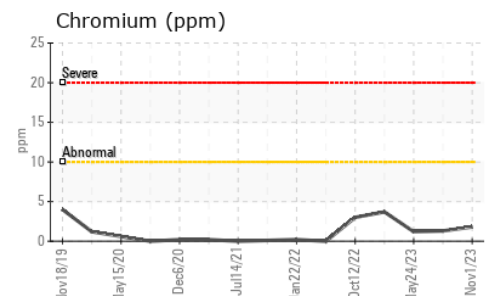
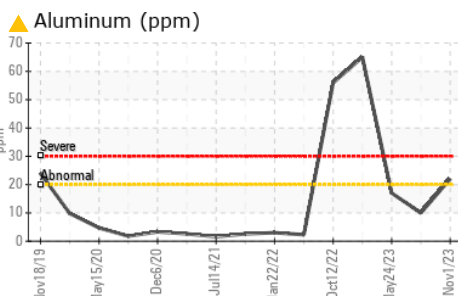
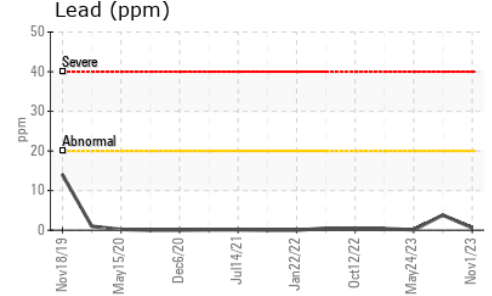
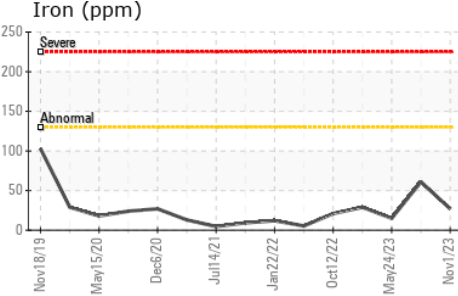


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.2	20.0	15.4
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	10.6	10.8	10.4

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853194 **Received** : 19 Jan 2024
Lab Number : **02609890** **Diagnosed** : 19 Jan 2024
Unique Number : 5710976 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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