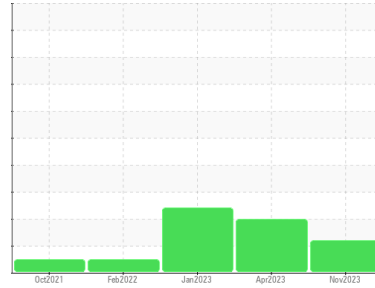




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
7395

Component
Diesel Engine

Fluid
CHEVRON DELO 400 LE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0853121	WC0796561	WC0702998
Sample Date	Client Info		03 Nov 2023	08 Apr 2023	15 Jan 2023
Machine Age	kms	Client Info	444682	417291	413963
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	13	12	27
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	1	1	4
Copper	ppm	ASTM D5185(m)	>330	1	<1	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		67	▲ 71	7
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		2	▲ 11	1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		703	704	73
Calcium	ppm	ASTM D5185(m)		1310	1401	2180
Phosphorus	ppm	ASTM D5185(m)	1200	690	735	876
Zinc	ppm	ASTM D5185(m)	1300	754	756	957
Sulfur	ppm	ASTM D5185(m)	3200	2614	2517	2829
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	4	4
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	2	4	2
Fuel	%	ASTM D7593*	>3.0	▲ 2	▲ 2.5	▲ 5.9

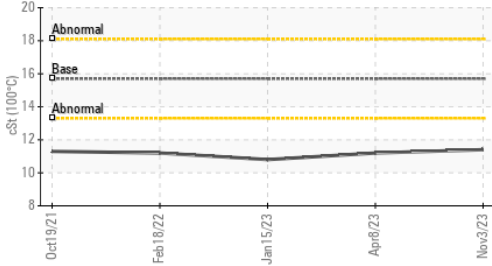
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.3	9.5	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.2	28.9



OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



FLUID DEGRADATION

method	limit/base	current	history1	history2
Abs.:1mm ASTM D7414*	>25	15.2	15.8	▲ 26.9

VISUAL

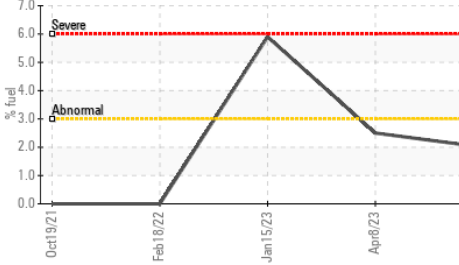
method	limit/base	current	history1	history2
Emulsified Water scalar Visual*	>0.2	NEG	NEG	NEG
Free Water scalar Visual*		NEG	NEG	NEG

FLUID PROPERTIES

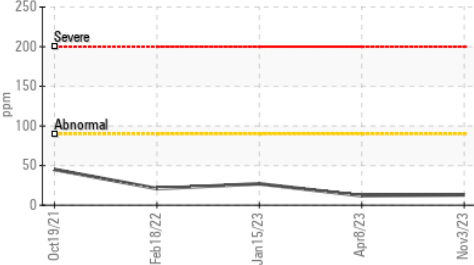
method	limit/base	current	history1	history2
Visc @ 100°C cSt ASTM D7279(m)	15.7	▲ 11.4	▲ 11.2	▲ 10.8

GRAPHS

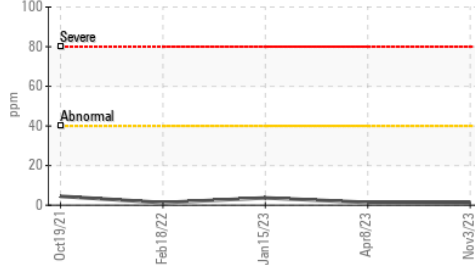
▲ Fuel Dilution



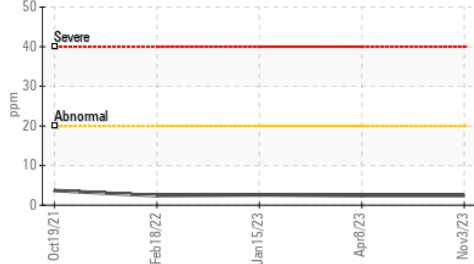
Iron (ppm)



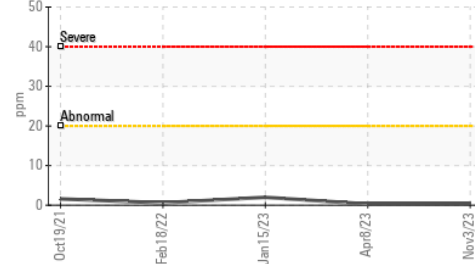
Lead (ppm)



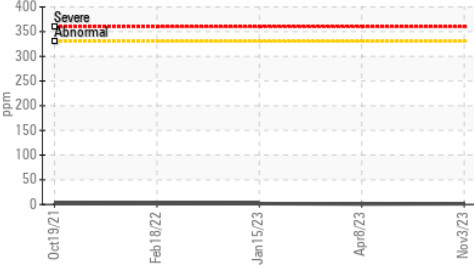
Aluminum (ppm)



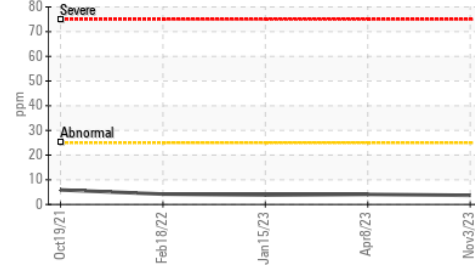
Chromium (ppm)



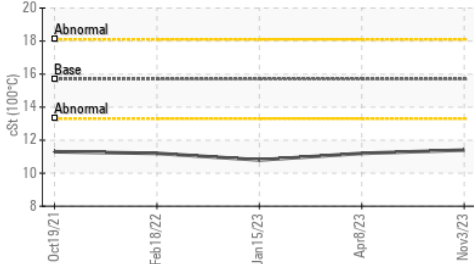
Copper (ppm)



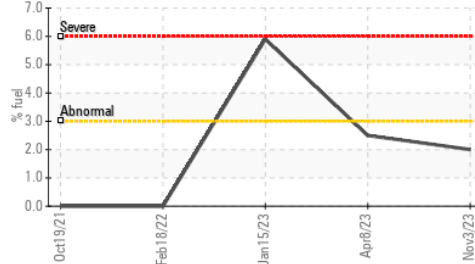
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853121 **Received** : 19 Jan 2024
Lab Number : 02609853 **Diagnosed** : 22 Jan 2024
Unique Number : 5710939 **Diagnostician** : Wes Davis
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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