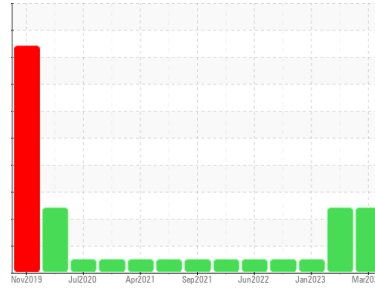




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id

9391

Component

Diesel Engine

Fluid

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

DIAGNOSIS

▲ Recommendation

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

Wear

All component wear rates are normal.

▲ Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

● Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0853467	WC0853096	WC0702860
Sample Date	Client Info		07 Mar 2024	01 Nov 2023	23 Jan 2023
Machine Age	kms	Client Info	160699	152036	131729
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<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)	>127	21	43	22
Chromium	ppm	ASTM D5185(m)	>3	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>30	1	2	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>59	5	9	4
Lead	ppm	ASTM D5185(m)	>29	0	2	<1
Copper	ppm	ASTM D5185(m)	>135	2	4	3
Tin	ppm	ASTM D5185(m)	>2	0	<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)		41	20	38
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		49	82	31
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		705	682	650
Calcium	ppm	ASTM D5185(m)		1260	1314	1503
Phosphorus	ppm	ASTM D5185(m)	1260	640	623	773
Zinc	ppm	ASTM D5185(m)	1400	728	715	837
Sulfur	ppm	ASTM D5185(m)		2522	2736	2741
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

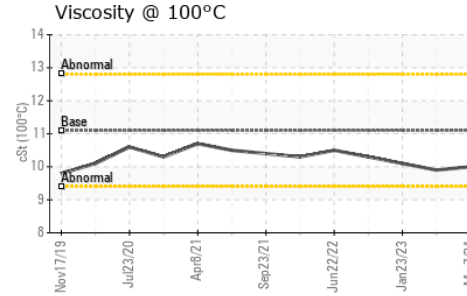
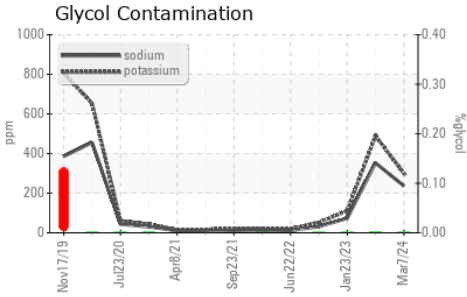
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>18	3	6	4
Sodium	ppm	ASTM D5185(m)		237	352	74
Potassium	ppm	ASTM D5185(m)	>20	300	489	111
Glycol	%	ASTM D7922*		0.0	0.0	0.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.1	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.5	11.9	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	24.7	23.0

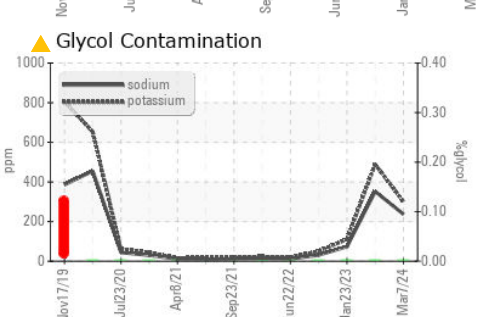
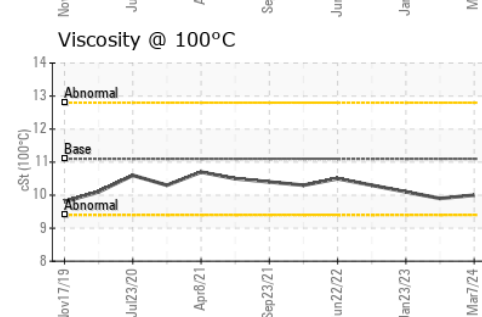
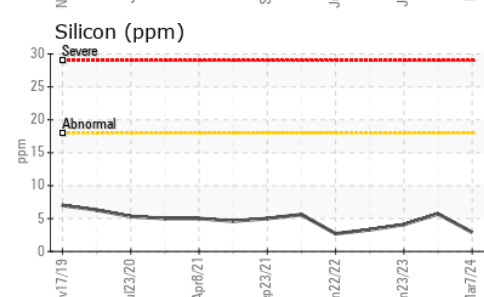
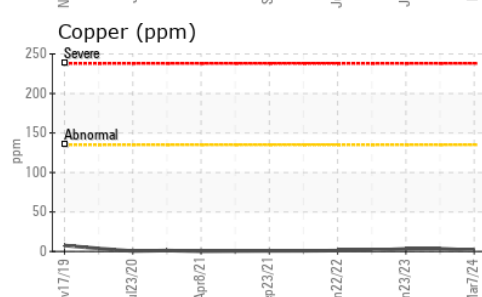
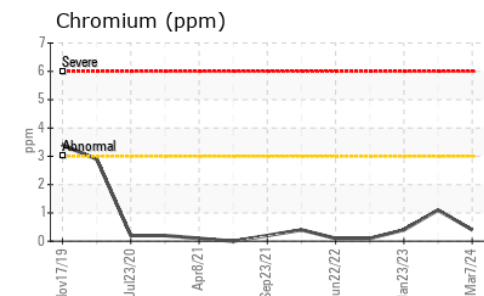
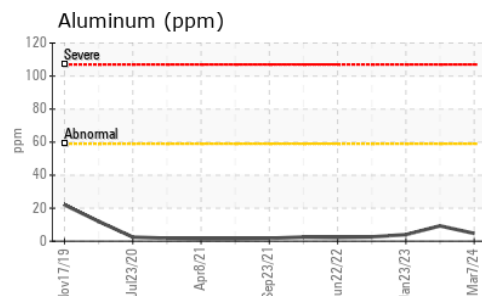
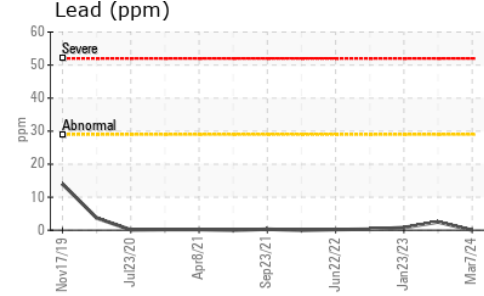
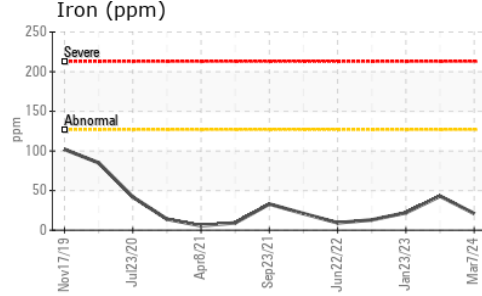


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.8	19.4	17.2
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	10.0	9.9	10.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853467 **Received** : 26 Mar 2024
Lab Number : 02624539 **Tested** : 26 Mar 2024
Unique Number : 5749658 **Diagnosed** : 26 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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 Mississauga, ON
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 sokur@rushtruckcentres.ca
 T: (905)671-7600
 F:

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.