



Machine Id
1216
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

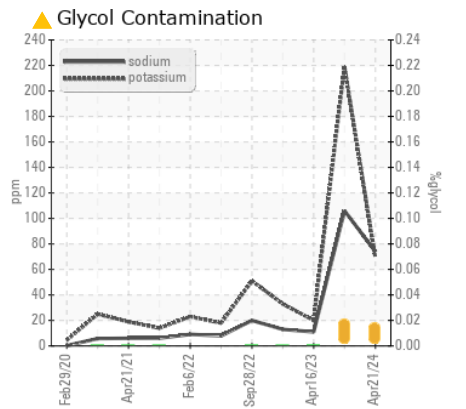
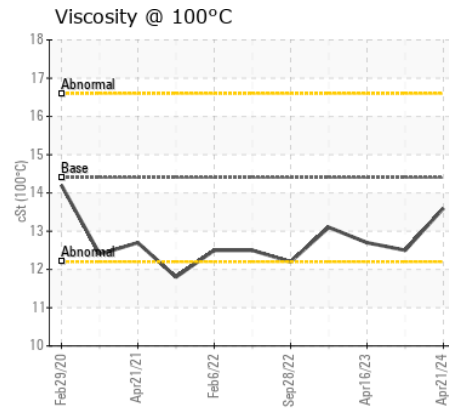
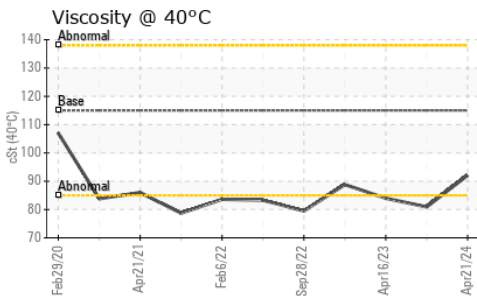
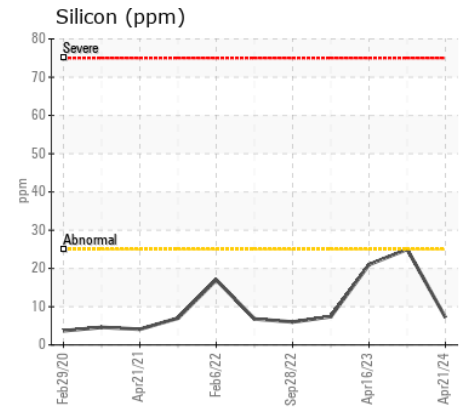
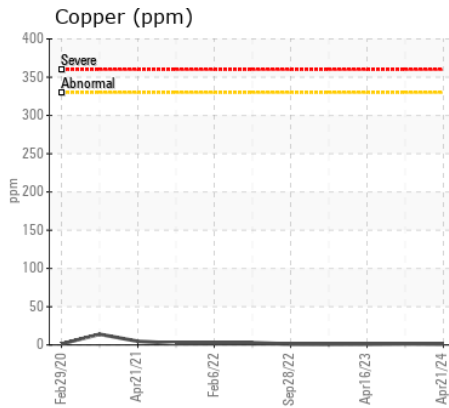
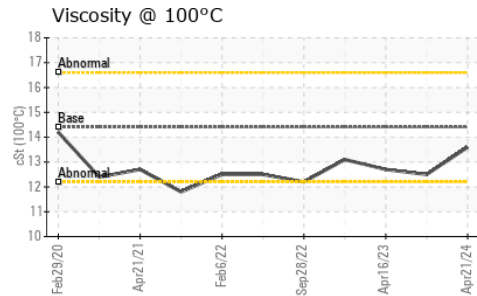
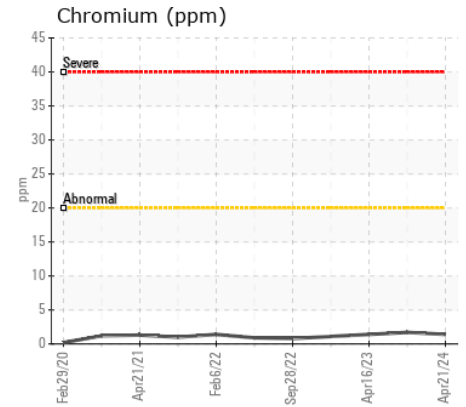
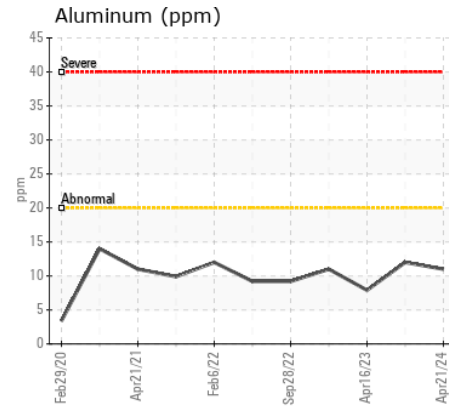
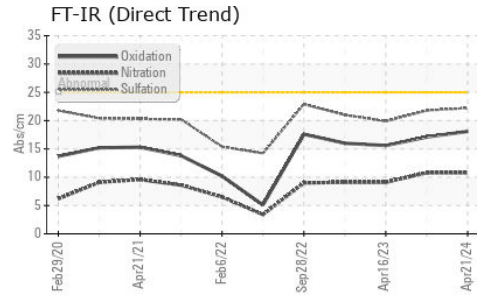
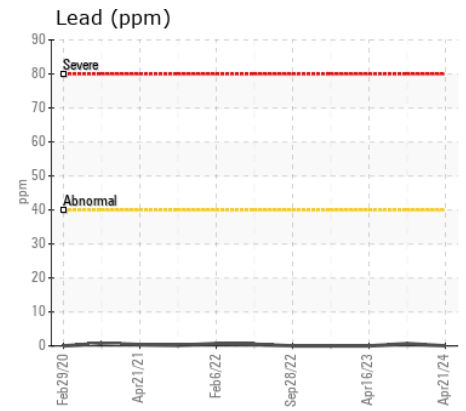
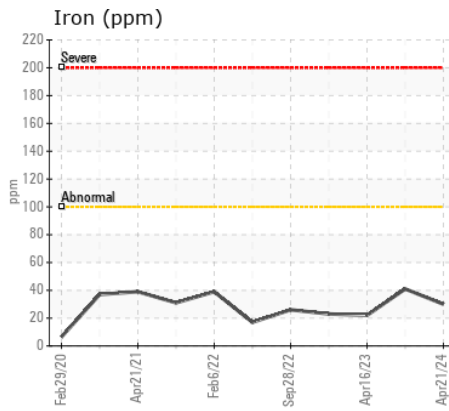
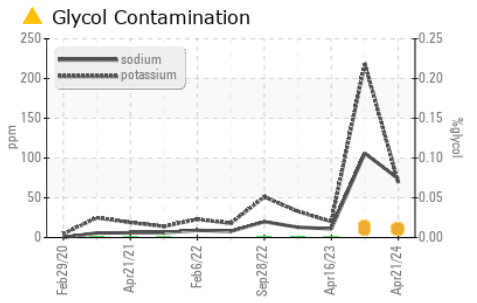
CONTAMINATION

Test for glycol is positive. There is a light concentration of glycol present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0085220	PC0082424	PC0070837
Sample Date		Client Info		21 Apr 2024	16 Nov 2023	16 Apr 2023
Machine Age	hrs	Client Info		7901	0	6386
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	30	41	22
Chromium	ppm	ASTM D5185(m)	>20	1	2	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	11	12	8
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	1	2	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	7	25	21
Potassium	ppm	ASTM D5185(m)	>20	▲ 69	▲ 219	20
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		▲ 0.018	▲ 0.021	0.0
Soot %	%	ASTM D7844*	>3	0.7	0.9	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.8	10.8	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2	21.8	19.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>158	● 74	● 106	11
Boron	ppm	ASTM D5185(m)	250	1	1	5
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	66	70	62
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	951	916	967
Calcium	ppm	ASTM D5185(m)	3000	1151	1050	1195
Phosphorus	ppm	ASTM D5185(m)	1150	1000	958	1099
Zinc	ppm	ASTM D5185(m)	1350	1195	1158	1217
Sulfur	ppm	ASTM D5185(m)	4250	2435	2383	2643
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.1	17.1	15.6
Visc @ 40°C	cSt	ASTM D7279(m)	115	92.1	80.9	84.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.6	12.5	12.7
Viscosity Index (VI)	Scale	ASTM D2270*	126	149	152	149



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085220
Lab Number : 02630504
Unique Number : 5763636
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)

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 Contact: Martin Trudel
 mtrudel@michaudville.com

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.