

Machine Id
F90209
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.

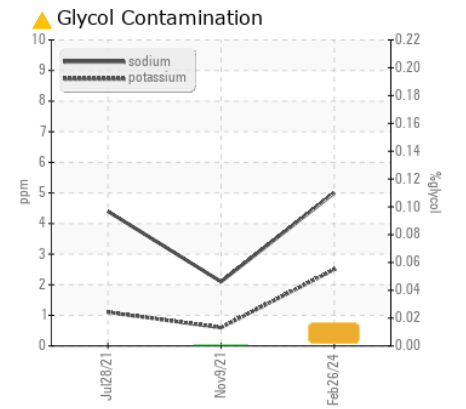
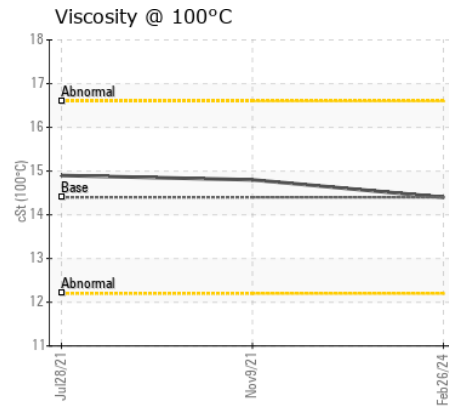
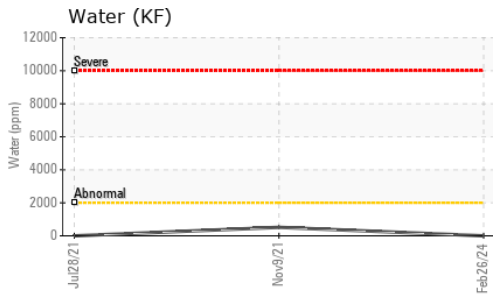
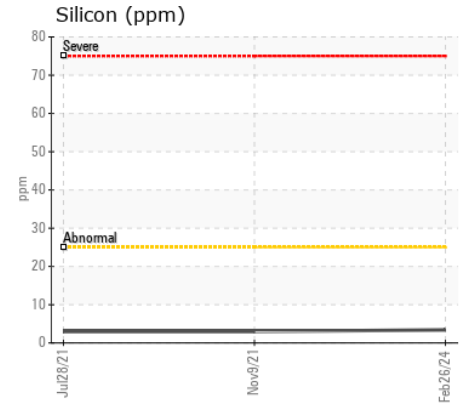
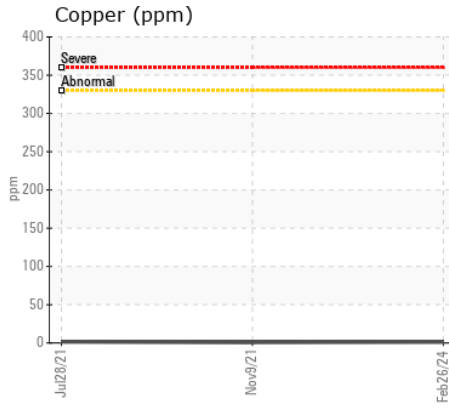
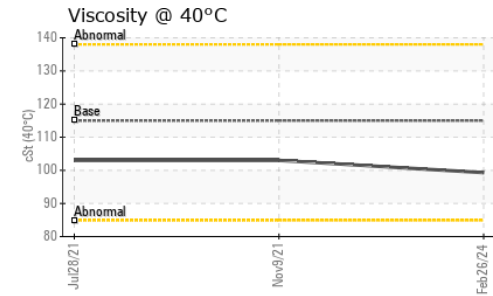
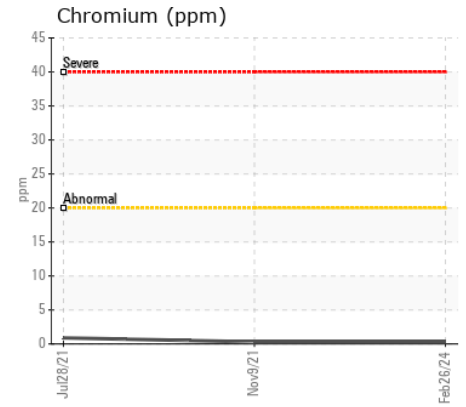
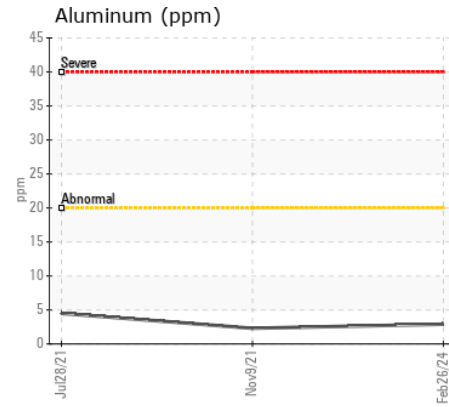
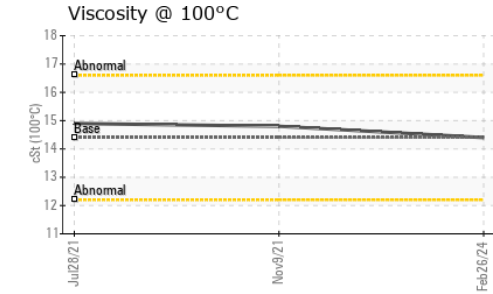
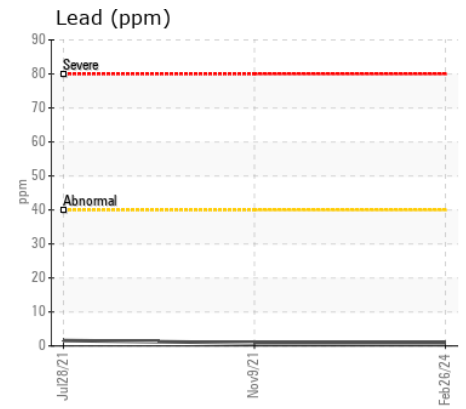
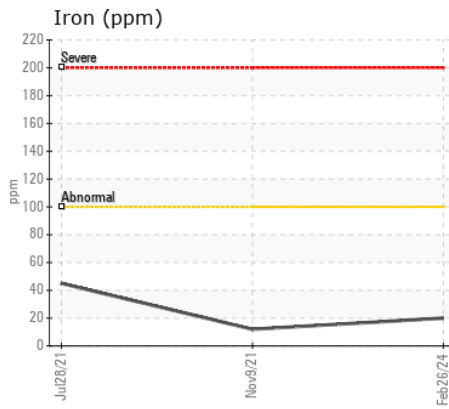
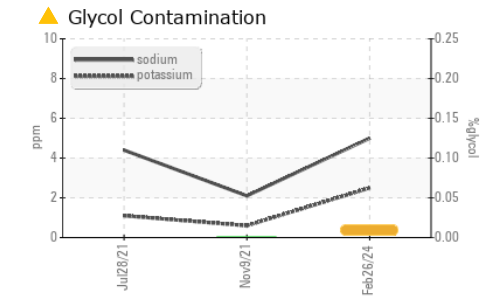
CONTAMINATION

Test for glycol is positive. There is a light concentration of glycol present in the oil. There is a moderate concentration of water 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		PC0064486	PC0053129	PC0037873
Sample Date		Client Info		26 Feb 2024	09 Nov 2021	28 Jul 2021
Machine Age	hrs	Client Info		1113	790	702
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	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>100	20	12	45
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<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	3	2	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	2
Copper	ppm	ASTM D5185(m)	>330	1	<1	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>25	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	2	<1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water	%	ASTM D6304*	>0.2	NEG	0.051	NEG
ppm Water	ppm	ASTM D6304*	>2000	---	514.8	---
Glycol	%	ASTM D7922*		▲ 0.016	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.2	0.6
Nitration	Abs/cm	ASTM D7624*	>20	5.4	5.3	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	19.0	19.2
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	.1%	NEG
Sodium	ppm	ASTM D5185(m)	>158	5	2	4
Boron	ppm	ASTM D5185(m)	250	3	2	5
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	58	59	59
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	938	1017	980
Calcium	ppm	ASTM D5185(m)	3000	1106	1053	1137
Phosphorus	ppm	ASTM D5185(m)	1150	995	1072	1085
Zinc	ppm	ASTM D5185(m)	1350	1151	1222	1229
Sulfur	ppm	ASTM D5185(m)	4250	2729	2695	2689
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	13.2	13.8
Visc @ 40°C	cSt	ASTM D7279(m)	115	99.3	103	103
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.4	14.8	14.9
Viscosity Index (VI)	Scale	ASTM D2270*	126	149	149	150



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0064486 **Received** : 27 Feb 2024
Lab Number : 02618279 **Tested** : 27 Feb 2024
Unique Number : 5735389 **Diagnosed** : 28 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, KV40, VI, Visual)

LES ENTREPRISES MICHAUVILLE INC.
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 MONT ST-HILAIRE, QC
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 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.

T:
F: