

Area
MICHAUDVILLE
Machine Id
1212
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083699	PC0075959	PC0072236
Sample Date		Client Info		21 Jan 2024	26 Sep 2023	14 Jun 2023
Machine Age	hrs	Client Info		17720	17286	16802
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				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	12	27	28
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	5	12	11
Lead	ppm	ASTM D5185(m)	>40	2	4	2
Copper	ppm	ASTM D5185(m)	>330	1	2	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

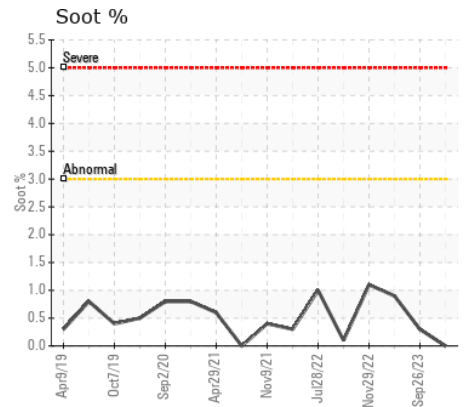
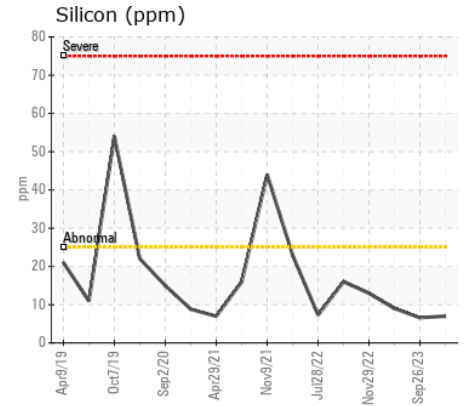
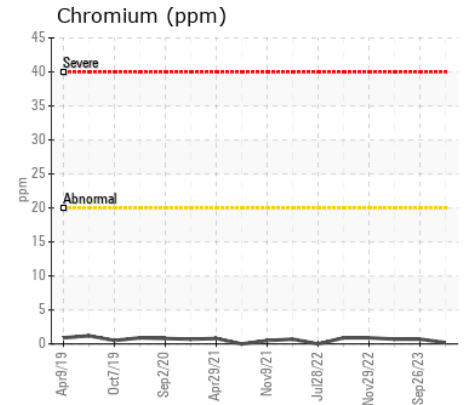
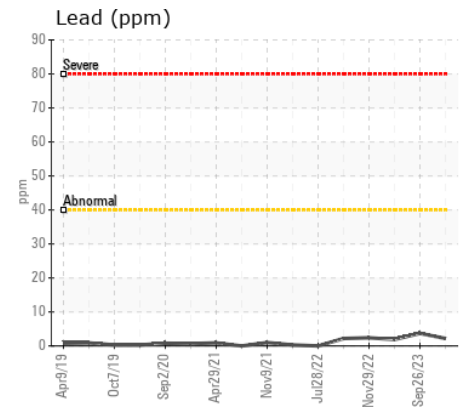
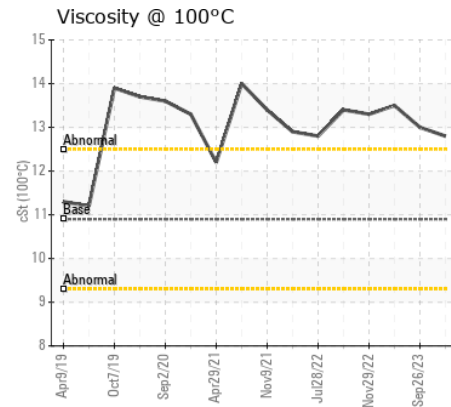
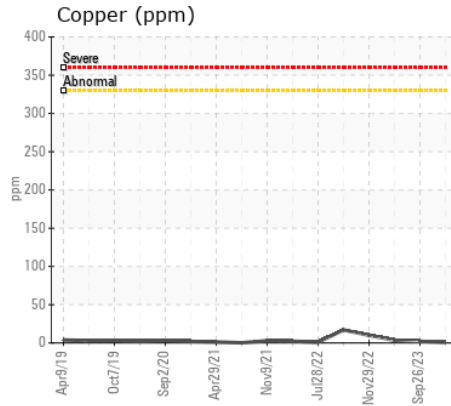
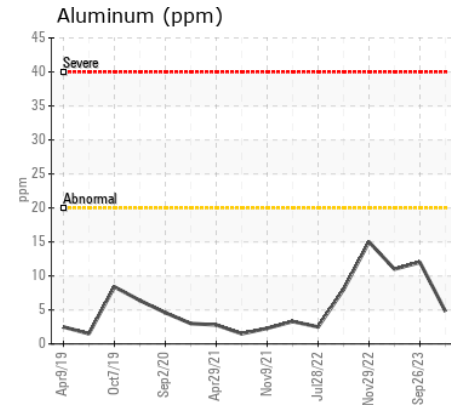
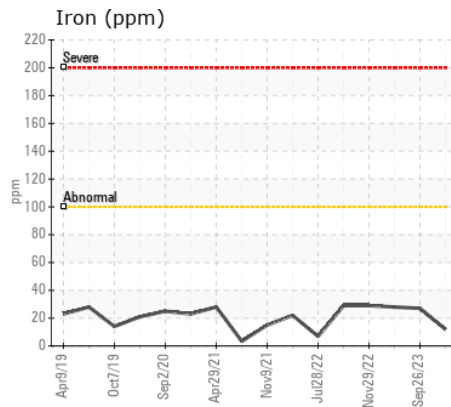
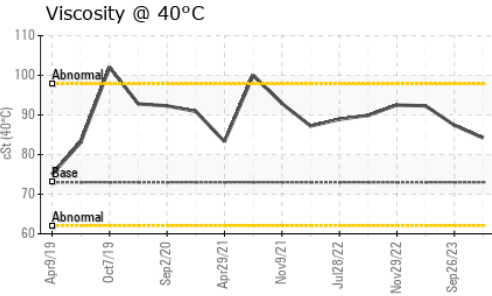
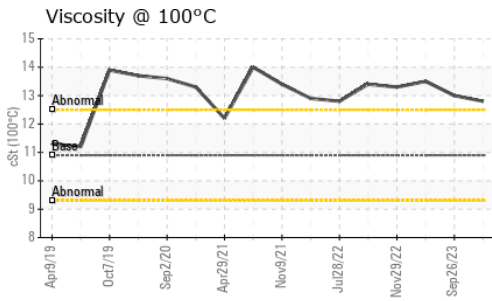
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	7	9
Potassium	ppm	ASTM D5185(m)	>20	8	29	29
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.3	0.9
Nitration	Abs/cm	ASTM D7624*	>20	7.2	8.4	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	21.7	21.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	5	5
Boron	ppm	ASTM D5185(m)	250	<1	1	2
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	56	60	62
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	915	973	983
Calcium	ppm	ASTM D5185(m)	3000	1292	1189	1185
Phosphorus	ppm	ASTM D5185(m)	1150	1053	1039	1120
Zinc	ppm	ASTM D5185(m)	1350	1211	1257	1242
Sulfur	ppm	ASTM D5185(m)	4250	2864	2638	2686
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.9	17.0	16.5
Visc @ 40°C	cSt	ASTM D7279(m)	73	84.2	87.4	92.3
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	12.8	13.0	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	138	150	148	147



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.
Sample No. : PC0083699 **Received** : 22 Jan 2024
Lab Number : 02610216 **Diagnosed** : 22 Jan 2024
Unique Number : 5711302 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.