

Area
MICHAUDVILLE
Machine Id
1152
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		PC0083618	PC0071941	PC0060272
Sample Date		Client Info		01 May 2024	08 Aug 2023	28 Jul 2022
Machine Age	kms	Client Info		487689	478680	462870
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	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	20	45	44
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	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	3	10	16
Copper	ppm	ASTM D5185(m)	>330	1	2	3
Tin	ppm	ASTM D5185(m)	>15	<1	2	3
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

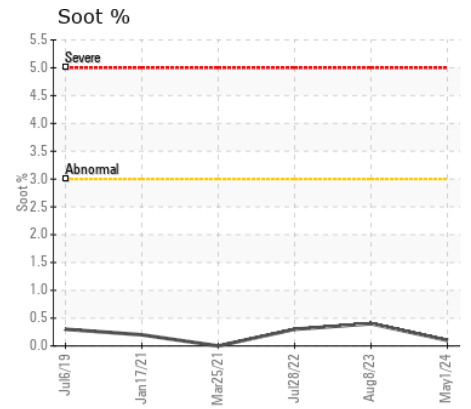
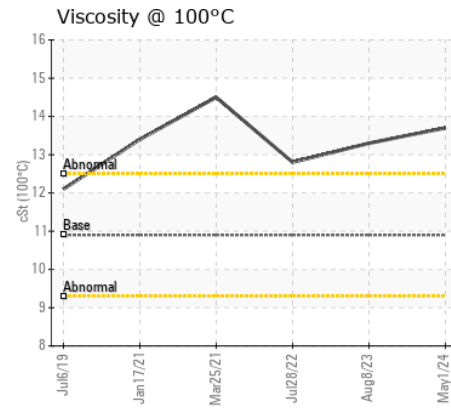
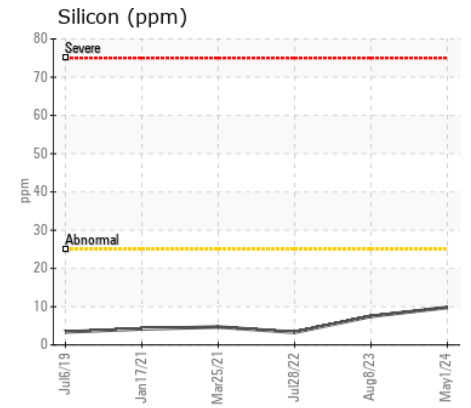
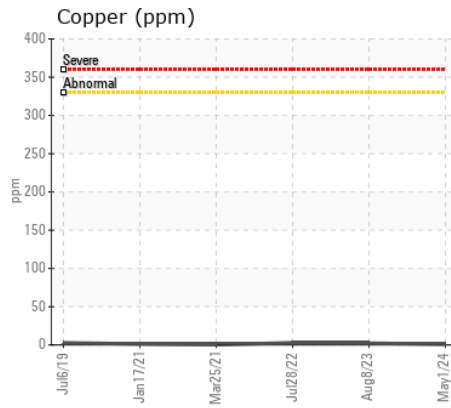
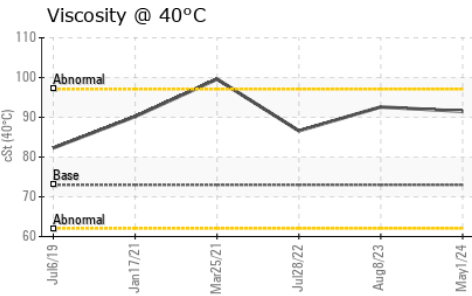
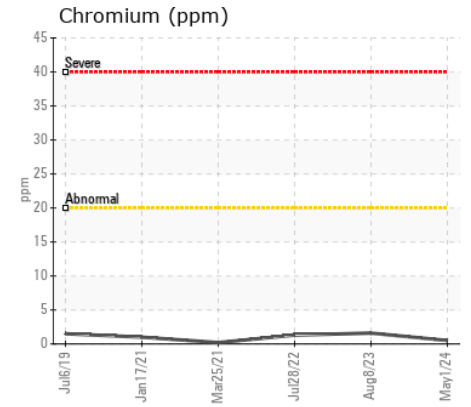
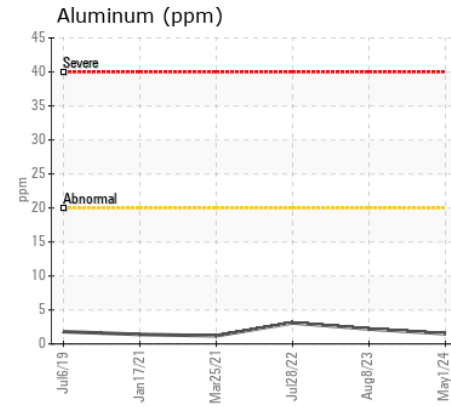
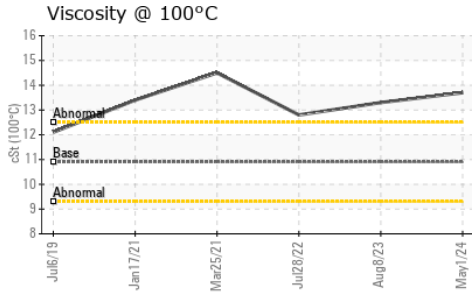
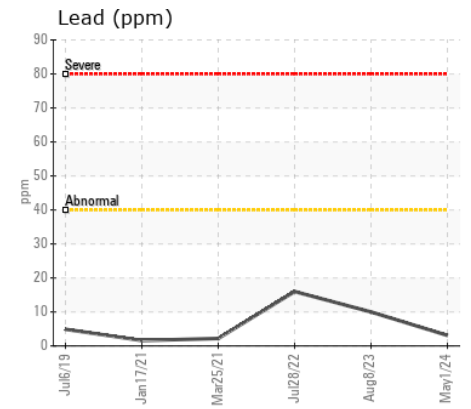
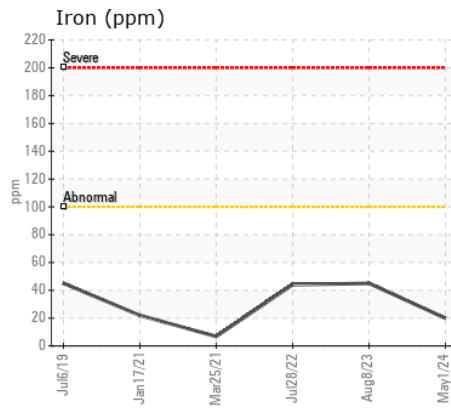
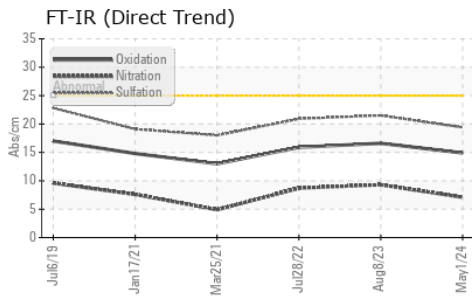
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	8	3
Potassium	ppm	ASTM D5185(m)	>20	5	<1	<1
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	0.1	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.1	9.3	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	21.5	20.9
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	NORML
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)		8	7	6
Boron	ppm	ASTM D5185(m)	250	2	1	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	59	60	55
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	960	994	981
Calcium	ppm	ASTM D5185(m)	3000	1112	1117	1118
Phosphorus	ppm	ASTM D5185(m)	1150	995	1056	1013
Zinc	ppm	ASTM D5185(m)	1350	1178	1219	1230
Sulfur	ppm	ASTM D5185(m)	4250	2508	2445	2597
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	16.6	15.9
Visc @ 40°C	cSt	ASTM D7279(m)	73	91.5	92.6	86.6
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	13.7	13.3	12.8
Viscosity Index (VI)	Scale	ASTM D2270*	138	152	143	146



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083618
Lab Number : 02632659
Unique Number : 5773812
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

LES ENTREPRISES MICHAUVILLE INC.
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 Contact: Martin Trudel
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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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