

Area
MICHAUDVILLE

Machine Id
1154

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL 10W40 (--- 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		PC0084410	PC0082447	PC0071014
Sample Date		Client Info		28 Feb 2024	31 Oct 2023	08 Aug 2023
Machine Age	hrs	Client Info		9193	8735	8177
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	14	18	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	3
Lead	ppm	ASTM D5185(m)	>40	<1	1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

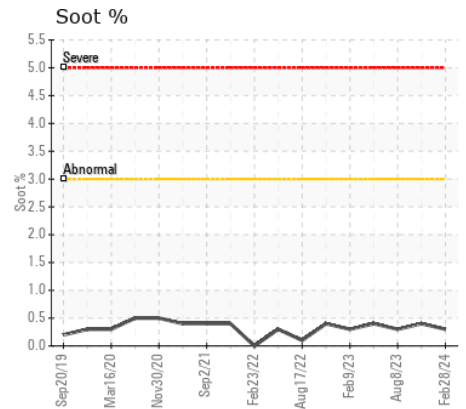
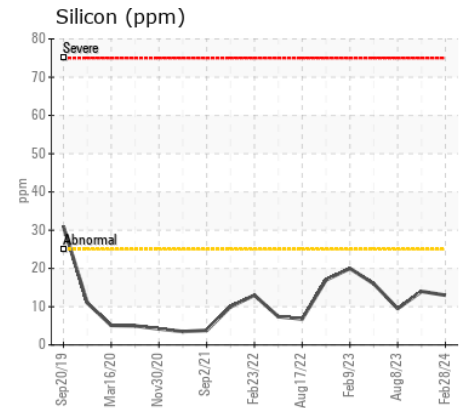
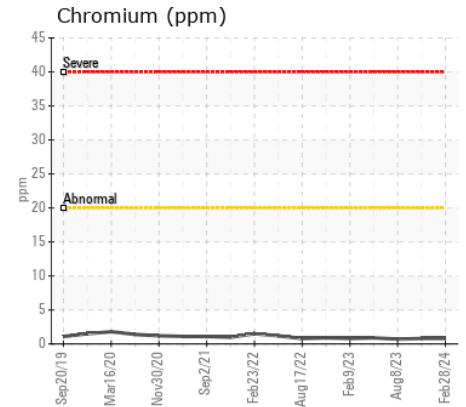
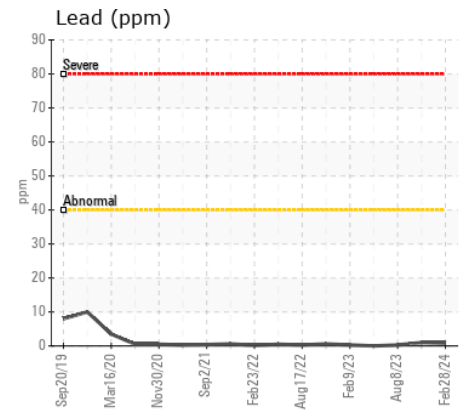
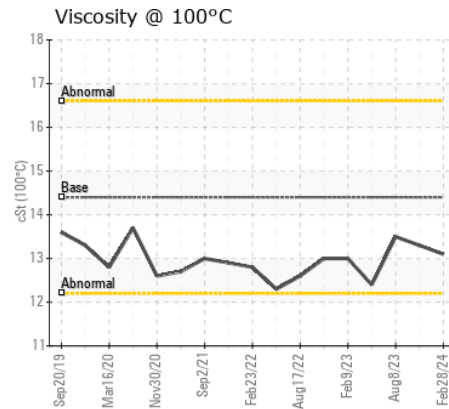
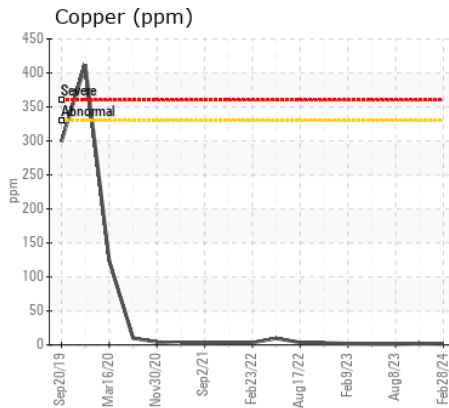
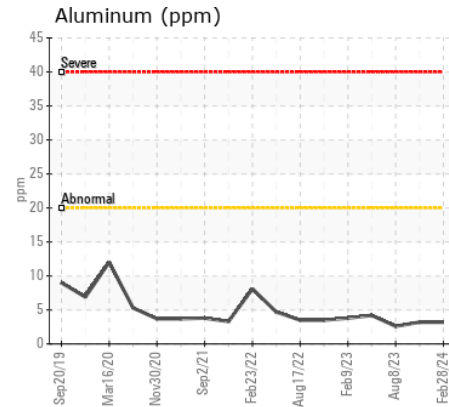
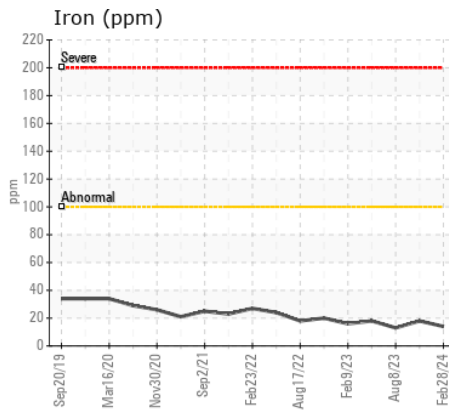
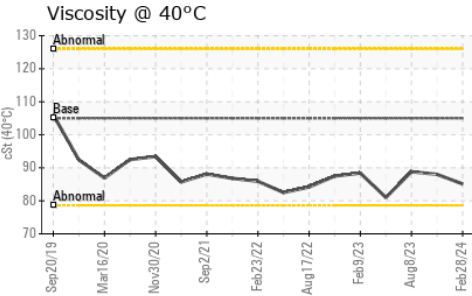
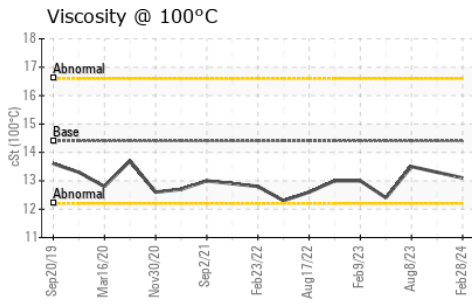
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	13	14	10
Potassium	ppm	ASTM D5185(m)	>20	2	<1	2
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	0.3	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.9	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	21.1	21.7
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)		2	3	6
Boron	ppm	ASTM D5185(m)	250	<1	1	1
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	56	59	54
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	912	941	894
Calcium	ppm	ASTM D5185(m)	3000	1161	1106	1138
Phosphorus	ppm	ASTM D5185(m)	1150	1010	990	1057
Zinc	ppm	ASTM D5185(m)	1350	1180	1197	1176
Sulfur	ppm	ASTM D5185(m)	4250	2681	2427	2578
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.7	18.2	17.1
Visc @ 40°C	cSt	ASTM D7279(m)	105	85.1	88.0	88.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.1	13.3	13.5
Viscosity Index (VI)	Scale	ASTM D2270*	126	154	152	153



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084410
Lab Number : 02618879
Unique Number : 5735989
Test Package : MOB 1 (Additional Tests: KV40, VI)
Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

LES ENTREPRISES MICHAUDVILLE INC.
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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.