

Machine Id
10433
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 5W40. Please confirm.
Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084377	PC0083492	---
Sample Date		Client Info		26 Feb 2024	12 Feb 2024	---
Machine Age	kms	Client Info		19868	19137	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	13	27	---
Chromium	ppm	ASTM D5185(m)	>20	2	3	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	<1	2	---
Aluminum	ppm	ASTM D5185(m)	>20	3	2	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	6	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

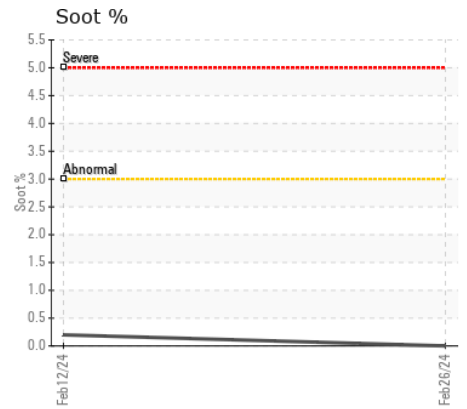
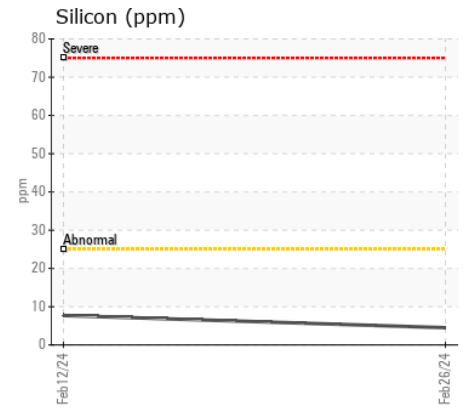
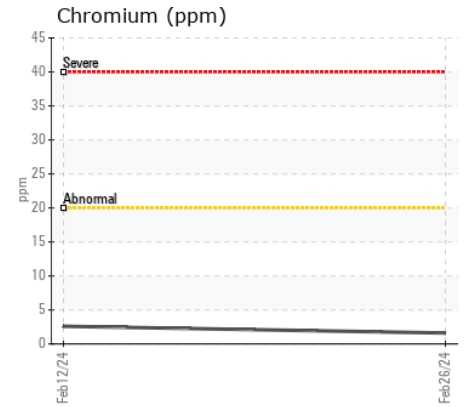
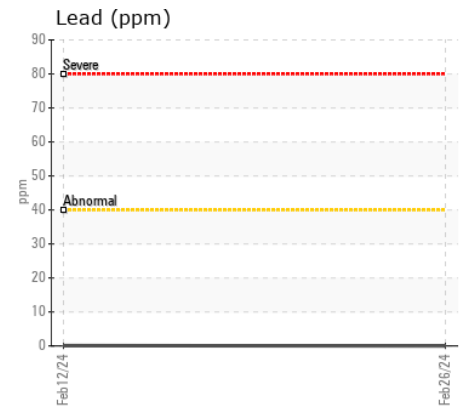
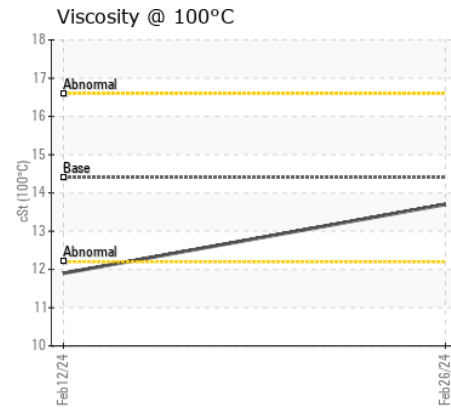
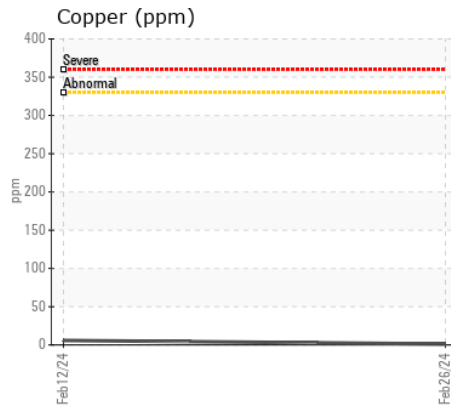
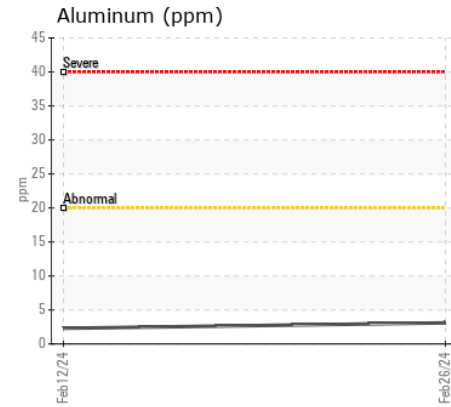
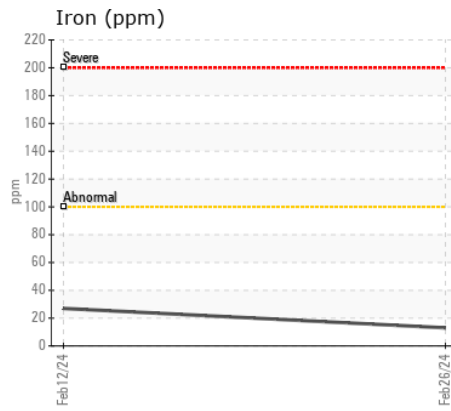
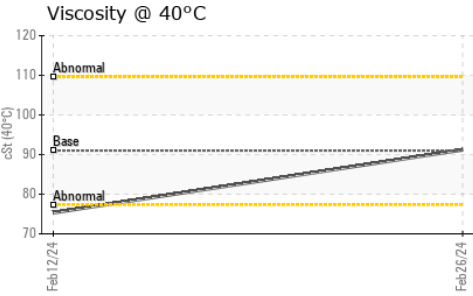
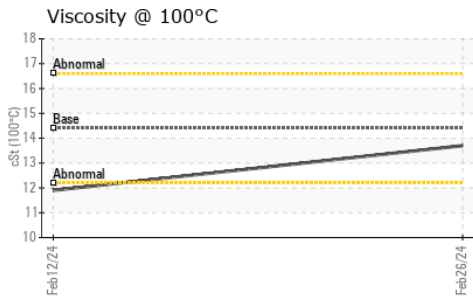
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	8	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Fuel		WC Method	>5	<1.0	▲ 4.9	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	5.1	8.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	21.1	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>44	1	2	---
Boron	ppm	ASTM D5185(m)	250	2	6	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	54	47	---
Manganese	ppm	ASTM D5185(m)		0	1	---
Magnesium	ppm	ASTM D5185(m)	450	917	855	---
Calcium	ppm	ASTM D5185(m)	3000	1058	1158	---
Phosphorus	ppm	ASTM D5185(m)	1150	1001	979	---
Zinc	ppm	ASTM D5185(m)	1350	1149	1133	---
Sulfur	ppm	ASTM D5185(m)	4250	2757	2648	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.8	15.9	---
Visc @ 40°C	cSt	ASTM D7279(m)	91	91.2	▲ 75.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.7	11.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	164	152	153	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084377
Lab Number : 02618277
Unique Number : 5735387
Test Package : MOB 1 (Additional Tests: KV40, VI)

LES ENTREPRISES MICHAUDVILLE INC.
 270 RUE BRUNET
 MONT ST-HILAIRE, QC
 CA J3H 0M6
 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.

T:
F: