



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1596
 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		PC0083221	PC0083650	PC0075957
Sample Date		Client Info		04 Jun 2024	08 Feb 2024	26 Sep 2023
Machine Age	hrs	Client Info		178830	3923	3457
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	14	22
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	4	5
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

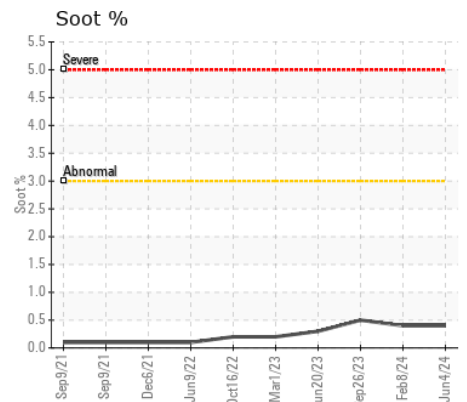
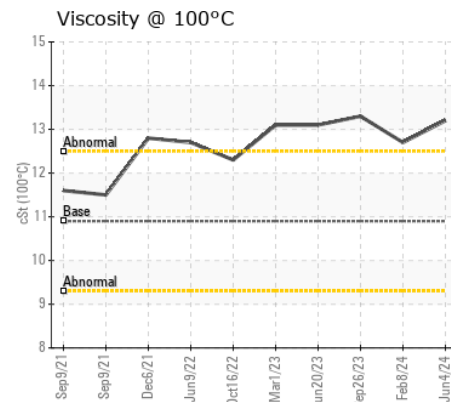
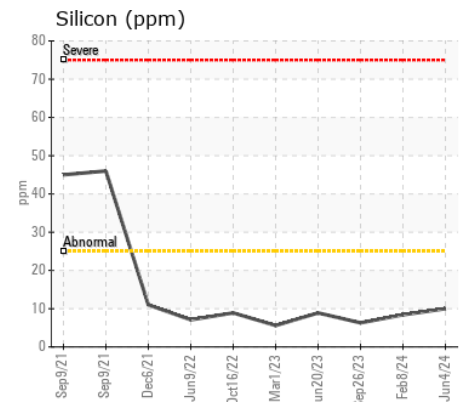
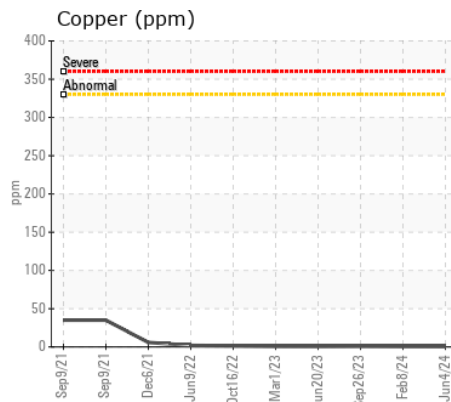
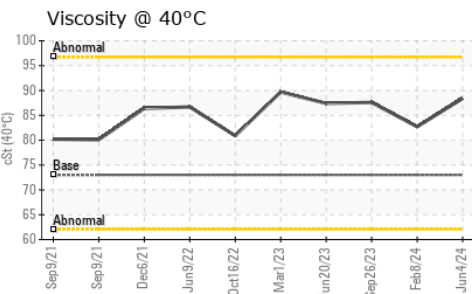
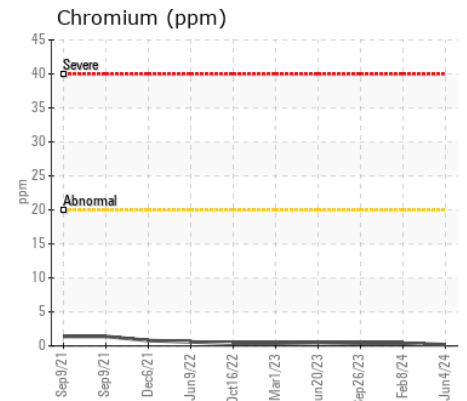
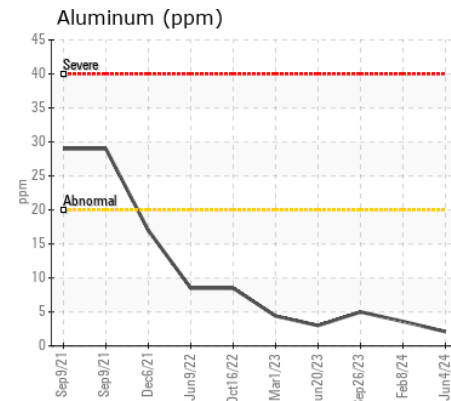
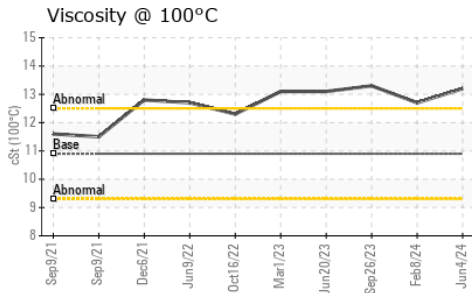
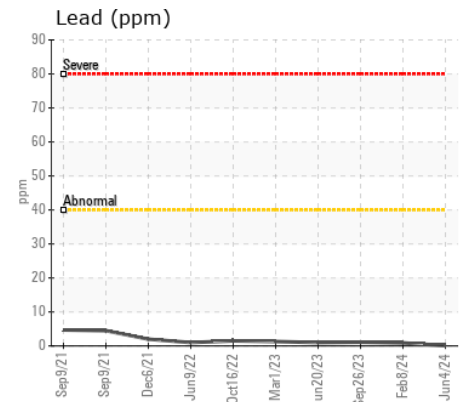
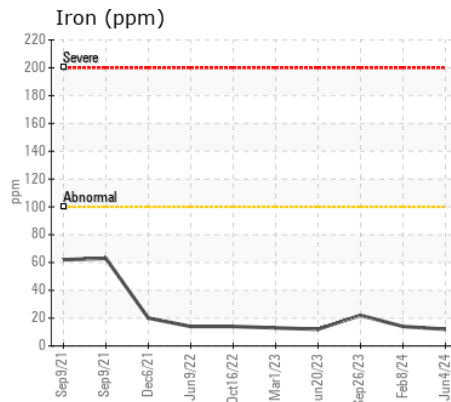
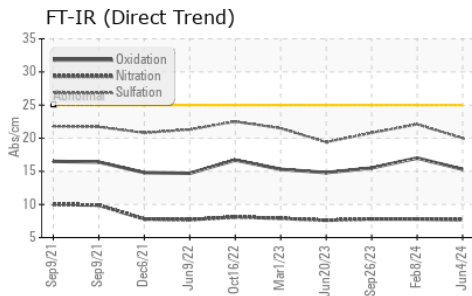
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	8	6
Potassium	ppm	ASTM D5185(m)	>20	4	7	15
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	0.4	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	7.7	7.8	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	22.1	20.8
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)		3	3	4
Boron	ppm	ASTM D5185(m)	250	1	<1	1
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	59	54	57
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	450	947	874	928
Calcium	ppm	ASTM D5185(m)	3000	1113	1263	1155
Phosphorus	ppm	ASTM D5185(m)	1150	1053	1010	998
Zinc	ppm	ASTM D5185(m)	1350	1205	1187	1213
Sulfur	ppm	ASTM D5185(m)	4250	2576	2795	2604
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.3	17.0	15.5
Visc @ 40°C	cSt	ASTM D7279(m)	73	88.4	82.7	87.6
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	13.2	12.7	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	138	149	152	152



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083221
Lab Number : 02639786
Unique Number : 5788948
Test Package : MOB 1 (Additional Tests: KV40, VI)

LES ENTREPRISES MICHAUVILLE 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.

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