



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1512
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- 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		PC0083531	PC0082248	PC0071528
Sample Date		Client Info		07 Jan 2024	20 Sep 2023	23 Feb 2023
Machine Age	hrs	Client Info		6666	6252	5293
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	7	9	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

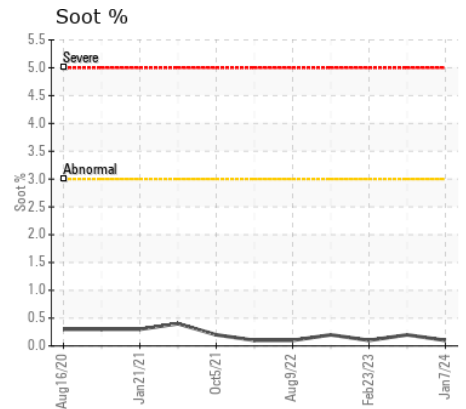
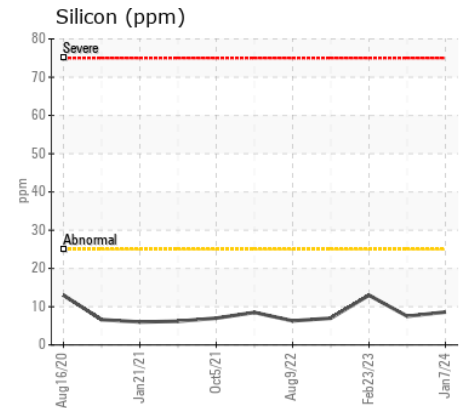
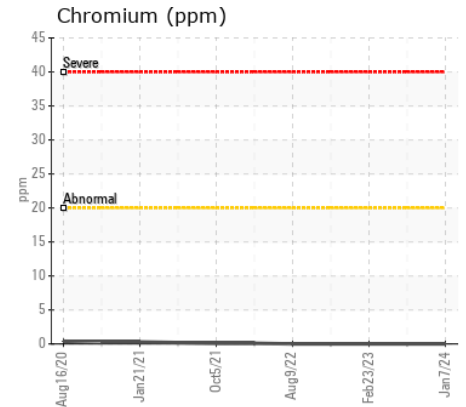
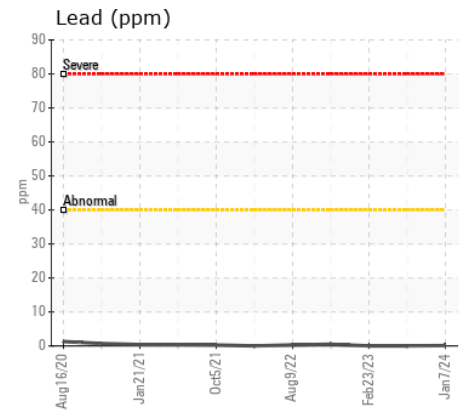
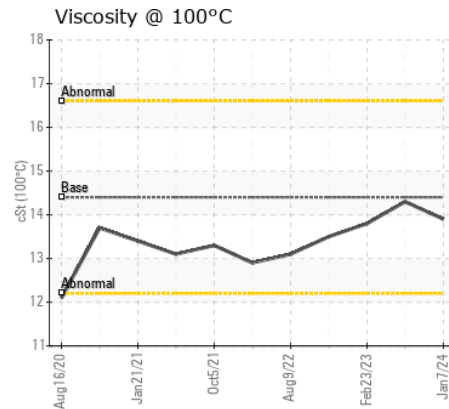
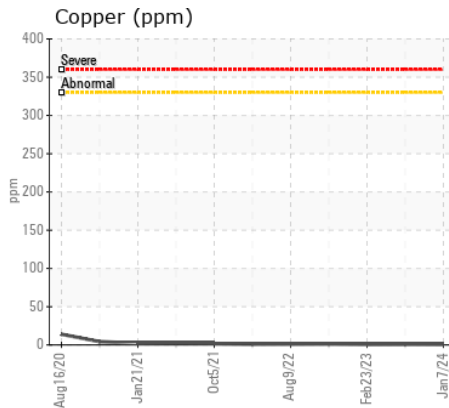
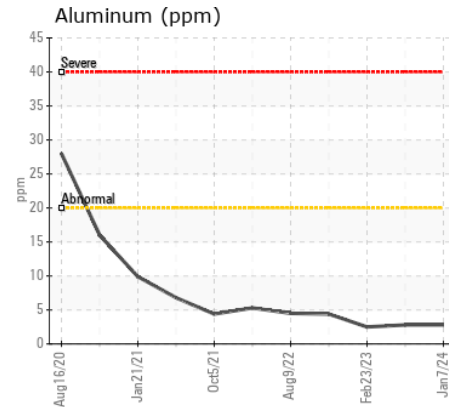
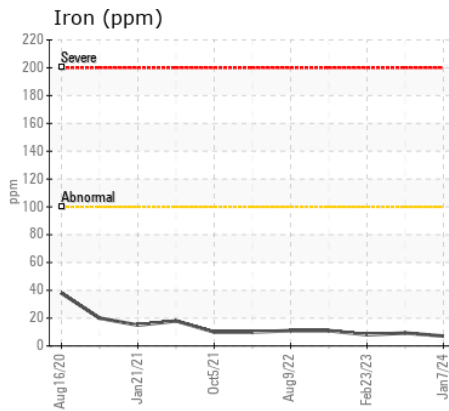
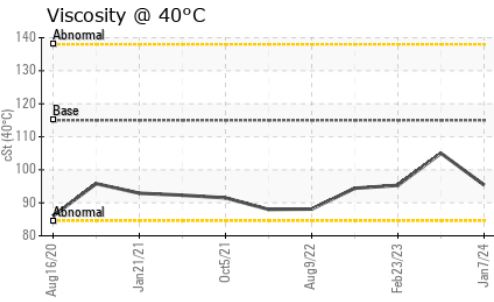
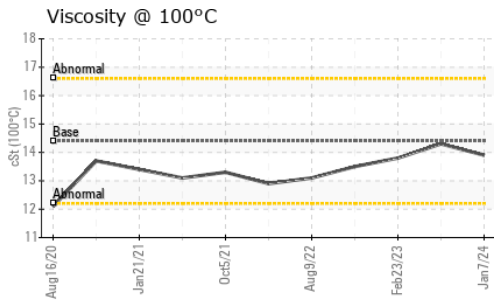
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	8	13
Potassium	ppm	ASTM D5185(m)	>20	3	7	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	0.1	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.3	8.1	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	20.9	20.9
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)	>158	1	2	1
Boron	ppm	ASTM D5185(m)	250	7	73	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	53	16	59
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	840	156	974
Calcium	ppm	ASTM D5185(m)	3000	1183	2084	1136
Phosphorus	ppm	ASTM D5185(m)	1150	977	1023	1080
Zinc	ppm	ASTM D5185(m)	1350	1177	1178	1197
Sulfur	ppm	ASTM D5185(m)	4250	2708	2844	2623
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	16.2	15.2
Visc @ 40°C	cSt	ASTM D7279(m)	115	95.4	105	95.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	14.3	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	126	148	139	146



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LES ENTREPRISES MICHAUVILLE INC.
Sample No. : PC0083531 **Received** : 08 Jan 2024
Lab Number : 02606957 **Diagnosed** : 09 Jan 2024
Unique Number : 5708043 **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.