



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3185 MAVIS RD MISSISSAUGA CITY OF MISSISSAUGA 3001984486

Component
Right Natural Gas Engine

Fluid
ESSO XD-3 EXTRA 15W40 (40 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005754	PN0004182	---
Sample Date		Client Info		19 Dec 2023	03 Jan 2023	---
Machine Age	hrs	Client Info		81	67	---
Oil Age	hrs	Client Info		14	24	---
Filter Age	hrs	Client Info		14	24	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	2	3	---
Chromium	ppm	ASTM D5185(m)	>4	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>9	2	3	---
Lead	ppm	ASTM D5185(m)	>30	3	5	---
Copper	ppm	ASTM D5185(m)	>35	107	206	---
Tin	ppm	ASTM D5185(m)	>4	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

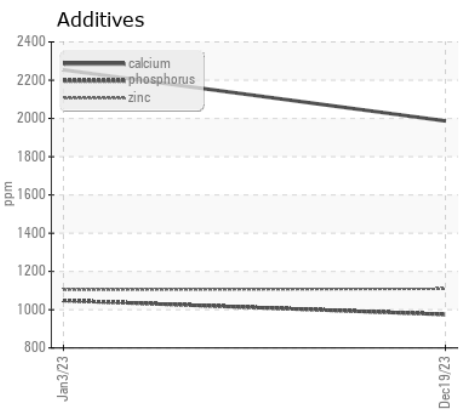
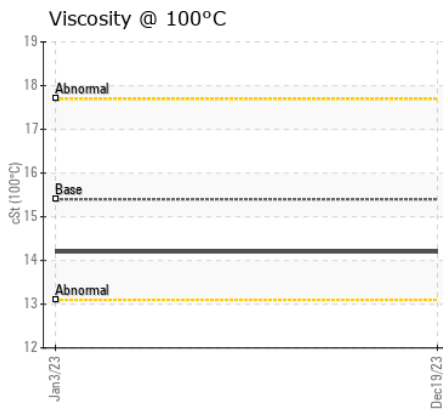
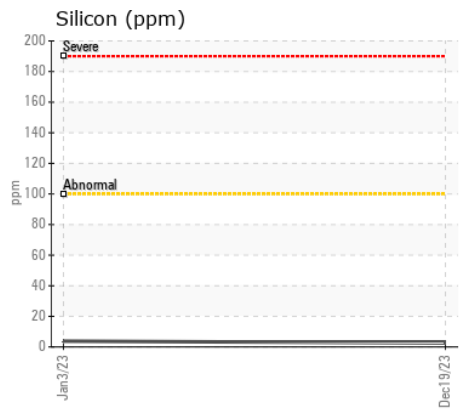
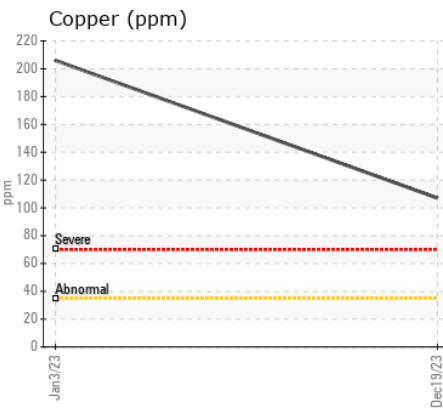
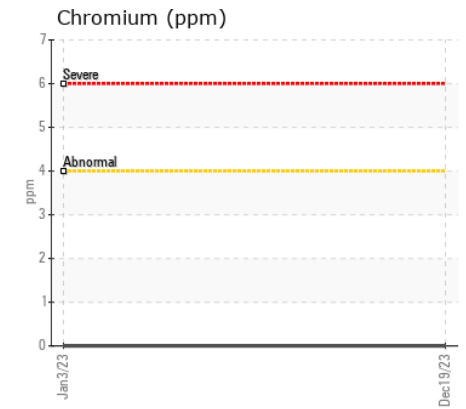
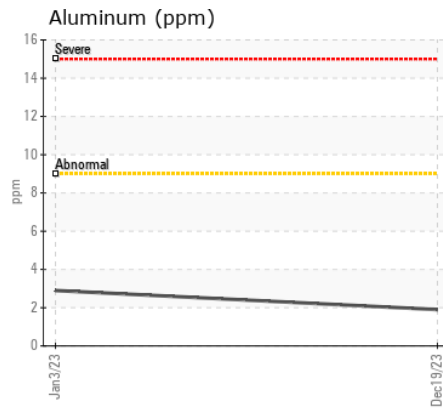
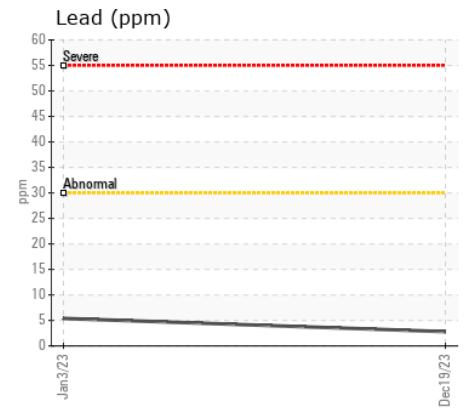
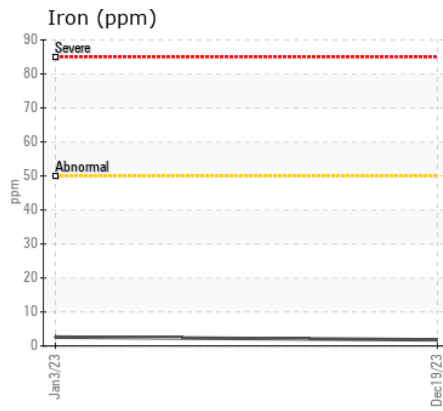
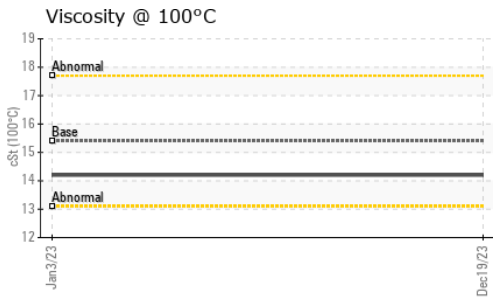
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.3	8.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.8	18.1	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	5	---
Boron	ppm	ASTM D5185(m)		63	72	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		24	82	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		83	20	---
Calcium	ppm	ASTM D5185(m)	3780	1987	2254	---
Phosphorus	ppm	ASTM D5185(m)	1370	975	1048	---
Zinc	ppm	ASTM D5185(m)	1500	1109	1105	---
Sulfur	ppm	ASTM D5185(m)	3800	3431	3299	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.3	13.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	14.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005754 **Received** : 08 Jan 2024
Lab Number : 02606996 **Diagnosed** : 08 Jan 2024
Unique Number : 5708082 **Diagnostician** : Kevin Marson
Test Package : MOB 1

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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.