



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id  
**GENERAC 1**  
Component  
**Natural Gas Engine**  
Fluid  
**MOBIL 1 5W30 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0931992</b>	WC0820638	---
Sample Date		Client Info		<b>01 Jun 2024</b>	14 May 2023	---
Machine Age	hrs	Client Info		<b>50</b>	16	---
Oil Age	hrs	Client Info		<b>5</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>SEVERE</b>	ABNORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	<b>6</b>	10	---
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	4	---
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	2	---
Copper	ppm	ASTM D5185(m)	>35	<b>3</b>	7	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

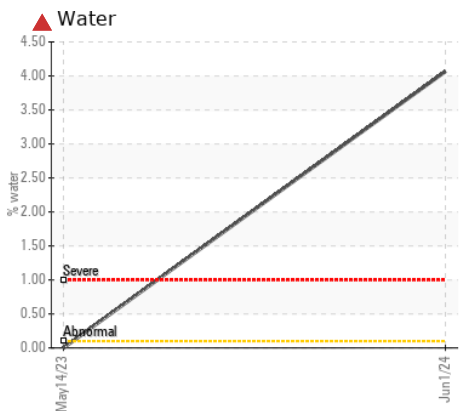
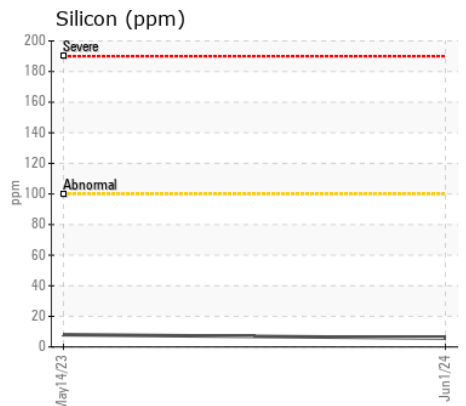
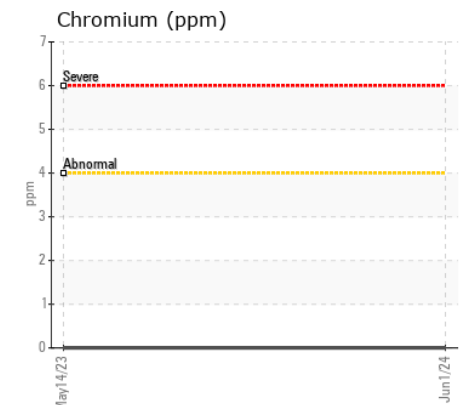
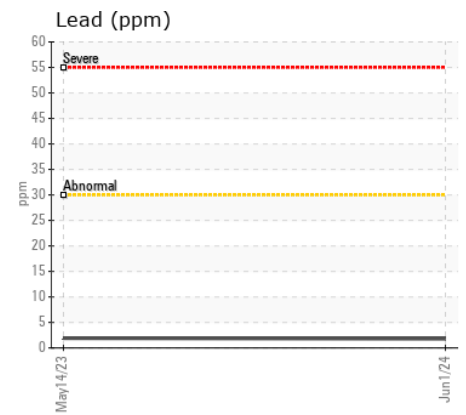
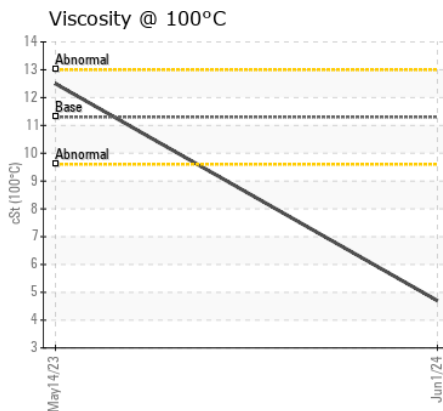
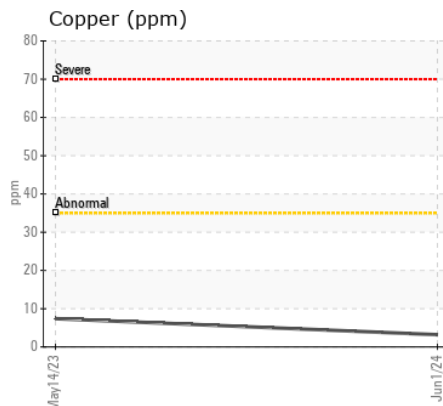
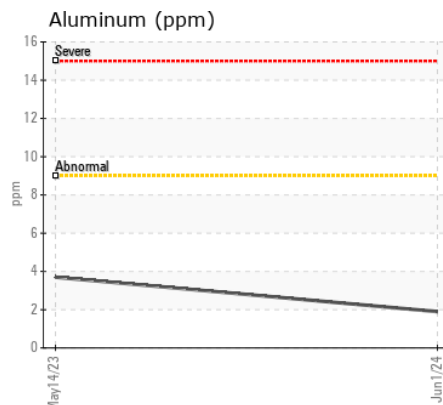
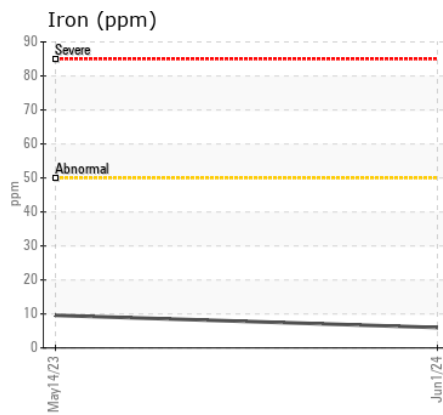
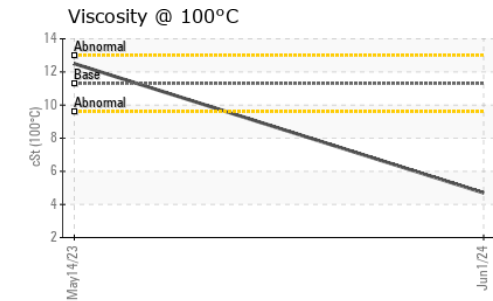
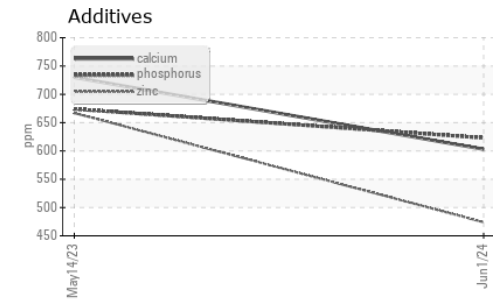
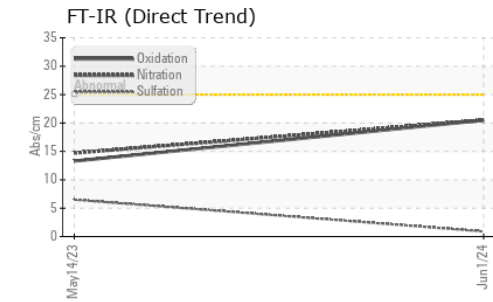
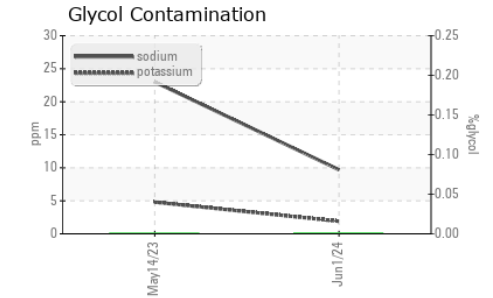
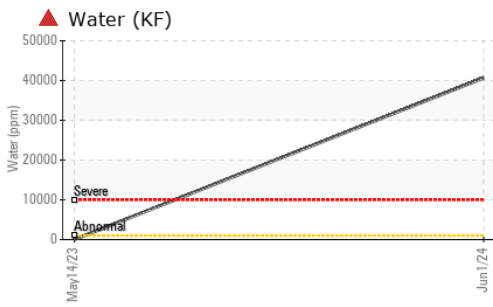
There is a high concentration of water present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>+100	<b>6</b>	8	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	---
Water	%	ASTM D6304*	>0.1	<b>▲ 4.066</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	<b>▲ 40663</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	---
Soot %	%	ASTM D7844*		<b>0.1</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>20.5</b>	14.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>0.9</b>	6.5	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>▲ MILKY</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>▲ .2%</b>	<b>▲ .5%</b>	---

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>10</b>	23	---
Boron	ppm	ASTM D5185(m)	94	<b>90</b>	64	---
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>243</b>	206	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185(m)	1388	<b>67</b>	515	---
Calcium	ppm	ASTM D5185(m)	820	<b>603</b>	730	---
Phosphorus	ppm	ASTM D5185(m)	720	<b>623</b>	674	---
Zinc	ppm	ASTM D5185(m)	780	<b>474</b>	667	---
Sulfur	ppm	ASTM D5185(m)	2240	<b>2341</b>	2571	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.5</b>	13.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.3	<b>4.7</b>	12.5	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0931992  
**Lab Number** : 02639391  
**Unique Number** : 5788553  
**Test Package** : MOB 1 ( Additional Tests: GLYCOL, KF, Visual )

**Received** : 03 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Kevin Marson

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.

**JAMES VENN**  
 129 ST.MARGARET'S RD.  
 ANCASTER, ON  
 CA L9G 2L1  
 Contact: James Venn  
 vennjamesk@gmail.com  
 T: (905)648-2945  
 F: