



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 9 - Marietta**  
Machine Id  
**5076**  
Component  
**Gasoline Engine**  
Fluid  
**POLARIS 5W50 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047019</b>	LEC0034594	---
Sample Date		Client Info		<b>11 Mar 2024</b>	07 Apr 2023	---
Machine Age	hrs	Client Info		<b>194</b>	78	---
Oil Age	hrs	Client Info		<b>116</b>	78	---
Filter Age	hrs	Client Info		<b>116</b>	78	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>7</b>	9	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	3	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>40	<b>5</b>	5	---
Lead	ppm	ASTM D5185m	>50	<b>5</b>	4	---
Copper	ppm	ASTM D5185m	>155	<b>14</b>	24	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

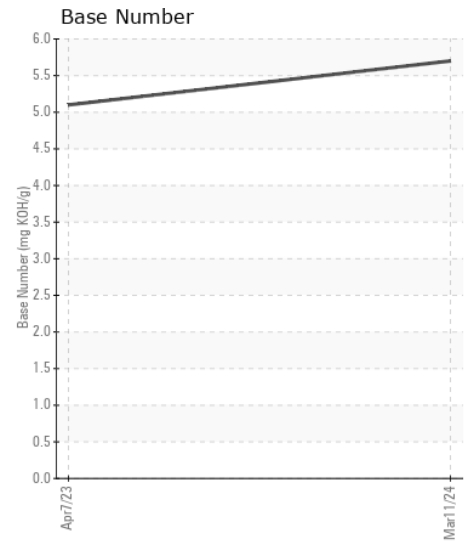
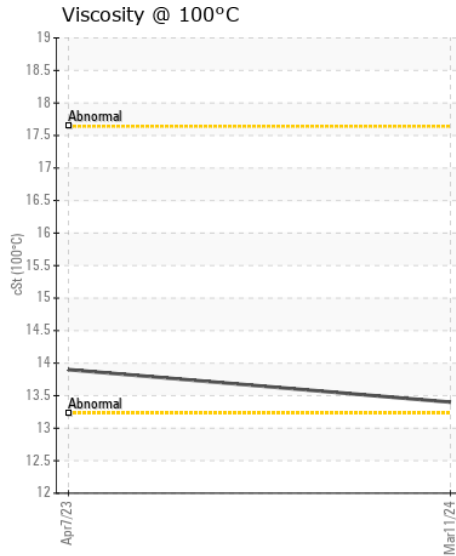
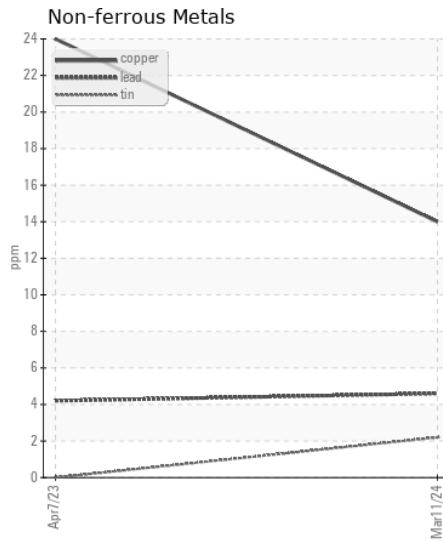
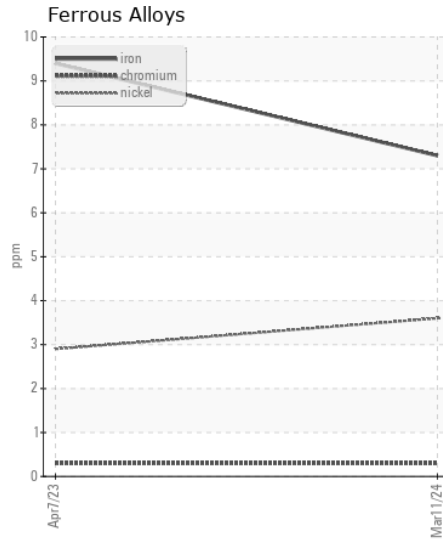
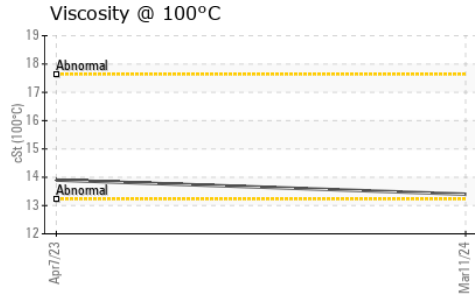
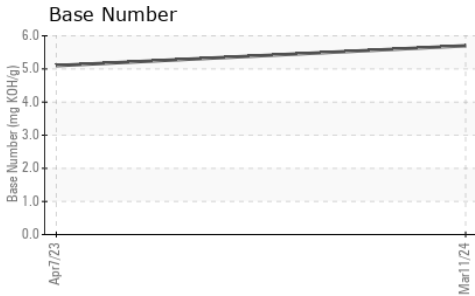
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>18</b>	▲ 40	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	7.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.0</b>	13.8	---
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>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	<b>4</b>	2	---
Boron	ppm	ASTM D5185m		<b>30</b>	42	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	9	---
Molybdenum	ppm	ASTM D5185m		<b>131</b>	133	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>391</b>	415	---
Calcium	ppm	ASTM D5185m		<b>1130</b>	1193	---
Phosphorus	ppm	ASTM D5185m		<b>619</b>	626	---
Zinc	ppm	ASTM D5185m		<b>762</b>	748	---
Sulfur	ppm	ASTM D5185m		<b>1960</b>	2351	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.4</b>	8.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.7</b>	5.1	---
Visc @ 100°C	cSt	ASTM D445		<b>13.4</b>	13.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047019 **Received** : 19 Mar 2024  
**Lab Number** : 06122146 **Tested** : 20 Mar 2024  
**Unique Number** : 10936297 **Diagnosed** : 21 Mar 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**LAROCHE TREE SERVICE**  
 7 COMMERCE PKWY  
 BELLAIRE, OH  
 US 43906  
 Contact: GLEN VARGO  
 glen.vargo@larochetree.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: