



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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>LEC0034739</b>	LEC0047019	LEC0034594
Sample Date		Client Info		<b>12 Jun 2024</b>	11 Mar 2024	07 Apr 2023
Machine Age	hrs	Client Info		<b>331</b>	194	78
Oil Age	hrs	Client Info		<b>137</b>	116	78
Filter Age	hrs	Client Info		<b>137</b>	116	78
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>5</b>	7	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	4	3
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	5	5
Lead	ppm	ASTM D5185m	>50	<b>6</b>	5	4
Copper	ppm	ASTM D5185m	>155	<b>10</b>	14	24
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

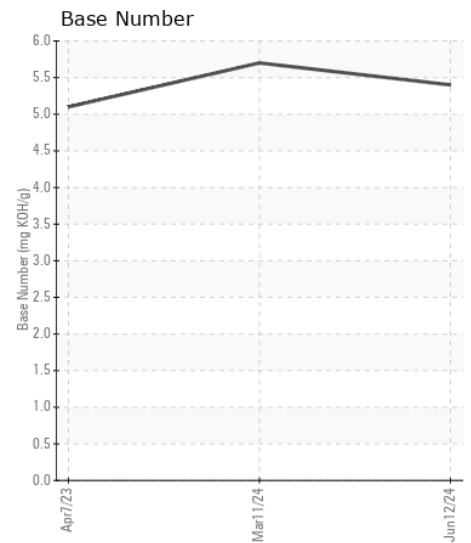
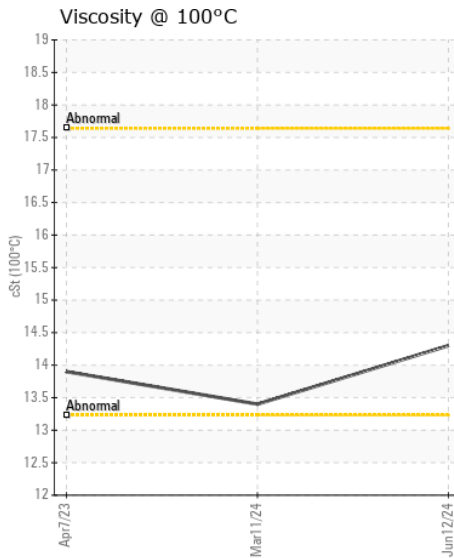
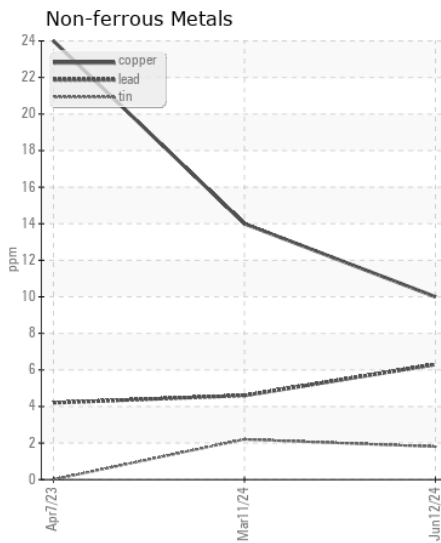
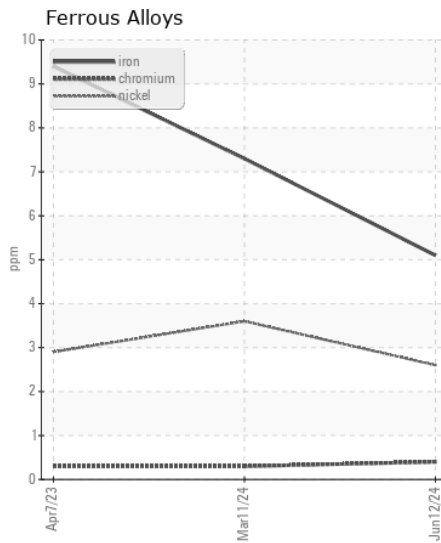
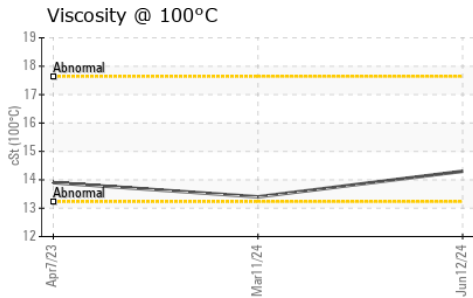
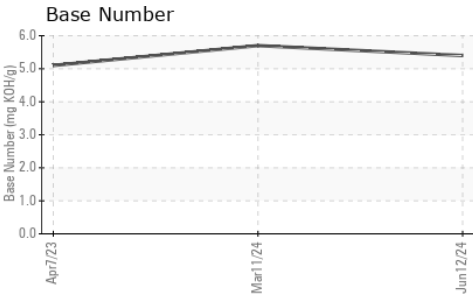
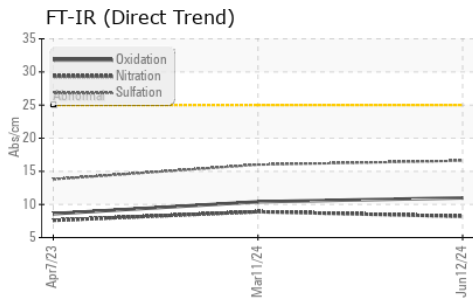
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>16</b>	18	▲ 40
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	8.9	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.6</b>	16.0	13.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	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>3</b>	4	2
Boron	ppm	ASTM D5185m		<b>31</b>	30	42
Barium	ppm	ASTM D5185m		<b>1</b>	<1	9
Molybdenum	ppm	ASTM D5185m		<b>139</b>	131	133
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>386</b>	391	415
Calcium	ppm	ASTM D5185m		<b>1175</b>	1130	1193
Phosphorus	ppm	ASTM D5185m		<b>594</b>	619	626
Zinc	ppm	ASTM D5185m		<b>733</b>	762	748
Sulfur	ppm	ASTM D5185m		<b>1871</b>	1960	2351
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>11.0</b>	10.4	8.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.4</b>	5.7	5.1
Visc @ 100°C	cSt	ASTM D445		<b>14.3</b>	13.4	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0034739 **Received** : 18 Jun 2024  
**Lab Number** : 06213097 **Tested** : 19 Jun 2024  
**Unique Number** : 11085961 **Diagnosed** : 20 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

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)

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

T:  
F: