



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
5083
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		LEC0047017	LEC0041163	---
Sample Date		Client Info		12 Mar 2024	21 Jun 2023	---
Machine Age	hrs	Client Info		192	95	---
Oil Age	hrs	Client Info		97	95	---
Filter Age	hrs	Client Info		97	95	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	9	14	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>5	4	7	---
Titanium	ppm	ASTM D5185m		2	2	---
Silver	ppm	ASTM D5185m	>2	0	1	---
Aluminum	ppm	ASTM D5185m	>40	6	10	---
Lead	ppm	ASTM D5185m	>50	3	9	---
Copper	ppm	ASTM D5185m	>155	6	12	---
Tin	ppm	ASTM D5185m	>10	2	4	---
Vanadium	ppm	ASTM D5185m		0	1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

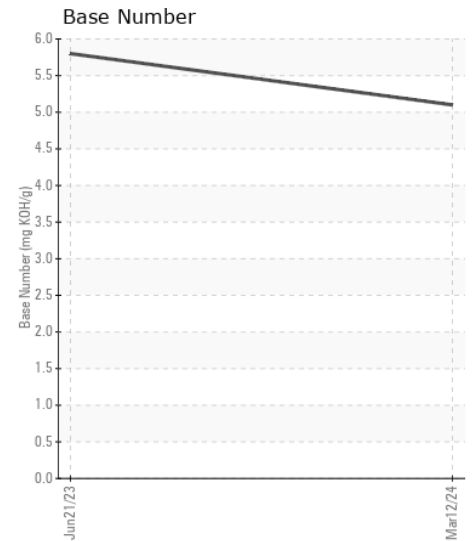
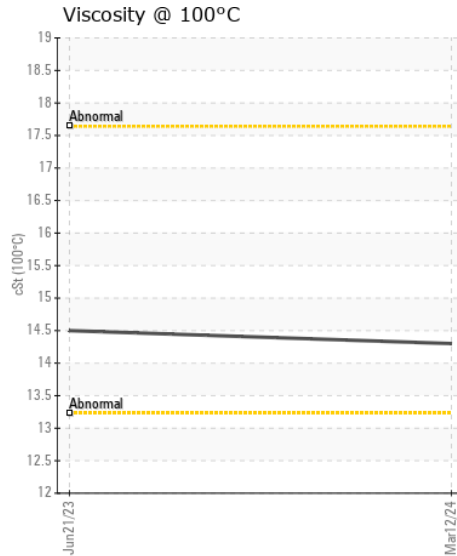
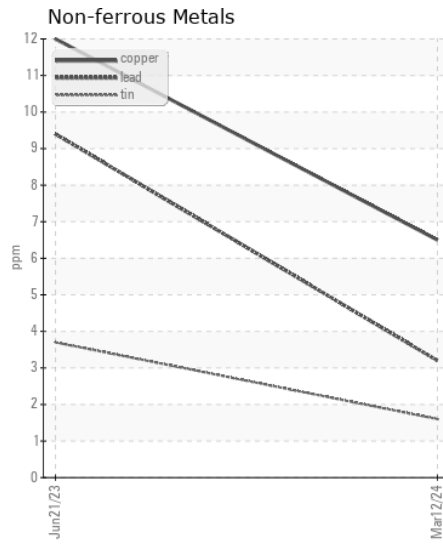
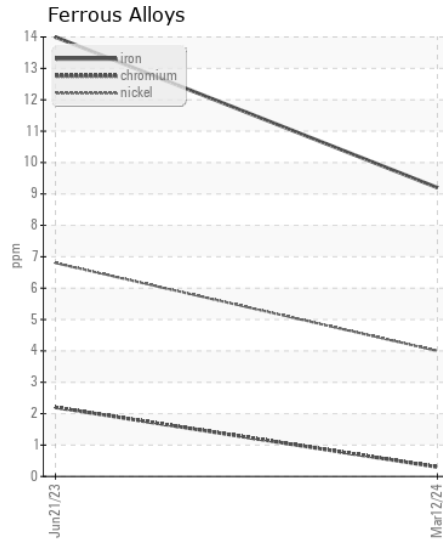
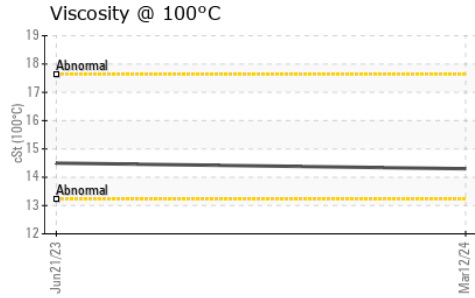
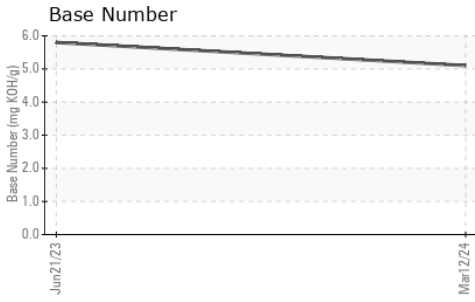
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	16	50	---
Potassium	ppm	ASTM D5185m	>20	2	11	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.1	16.2	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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	2	8	---
Boron	ppm	ASTM D5185m		31	32	---
Barium	ppm	ASTM D5185m		<1	28	---
Molybdenum	ppm	ASTM D5185m		131	112	---
Manganese	ppm	ASTM D5185m		<1	4	---
Magnesium	ppm	ASTM D5185m		387	368	---
Calcium	ppm	ASTM D5185m		1131	1032	---
Phosphorus	ppm	ASTM D5185m		628	560	---
Zinc	ppm	ASTM D5185m		761	669	---
Sulfur	ppm	ASTM D5185m		2053	2070	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.0	9.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	5.8	---
Visc @ 100°C	cSt	ASTM D445		14.3	14.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047017 **Received** : 19 Mar 2024
Lab Number : 06122150 **Tested** : 20 Mar 2024
Unique Number : 10936301 **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: