

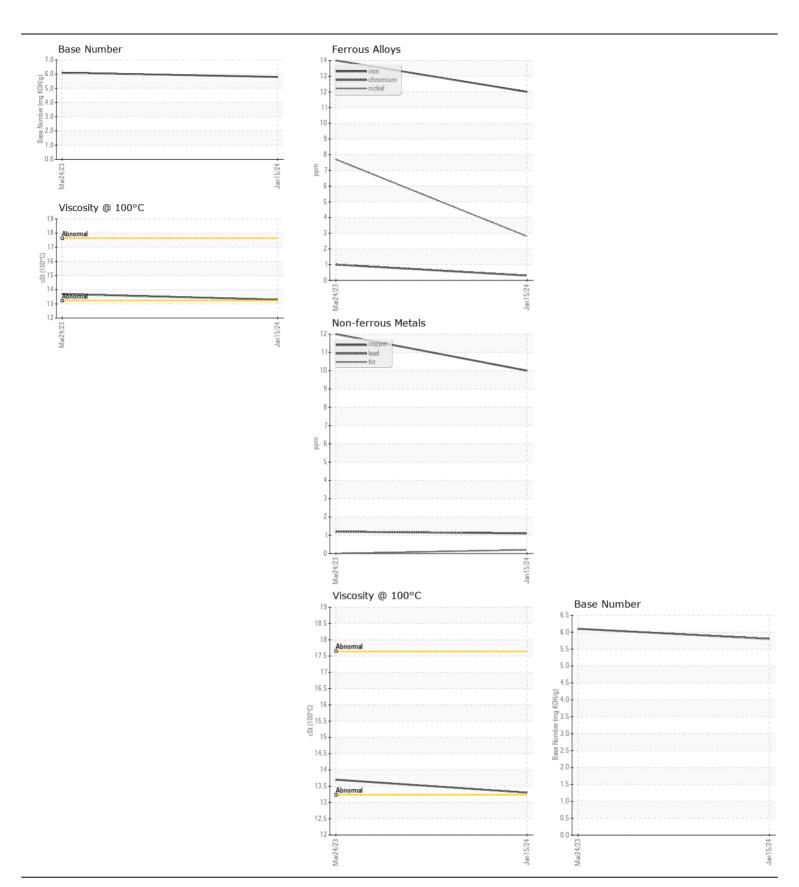
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Store 9 - Marietta 5104

Component
Gasoline Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0047000	LEC0034659	
	Sample Date		Client Info		15 Jan 2024	24 Mar 2023	
	Machine Age	hrs	Client Info		151	70	
	Oil Age	hrs	Client Info		81	70	
	Filter Age	hrs	Client Info		81	70	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>150	12	14	
	Chromium	ppm	ASTM D5185m	>20	<1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		3	8	
	Titanium	ppm	ASTM D5185m	70	<1	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		3	7	
	Lead	ppm	ASTM D5185m		1	1	
	Copper	ppm	ASTM D5185m		10	12	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m	710	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Ciliana		ACTA DE10E	100	40	A 04	
ONTAMINATION	Silicon	ppm	ASTM D5185m		16	<u>^</u> 21	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		2	<1	
			WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG NEG	NEG NEG	
	Glycol Soot %	%	*ASTM D7844		0	0	
	Nitration	Abs/cm	*ASTM D7624	- 20	7.2	5.2	
	Sulfation	Abs/.1mm	*ASTM D7624	>20	15.4	14.1	
	Silt		*Visual		NONE	NONE	
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt		*Visual	NONE	NONE	NONE	
		scalar	*Visual	NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
<u></u>	Linuisined Water		visuai				
LUID CONDITION	Sodium	ppm	ASTM D5185m	>400	<1	<1	
	Boron	ppm	ASTM D5185m		32	0	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		4	1	
	Molybdenum	ppm	ASTM D5185m		123	27	
	Manganese	ppm	ASTM D5185m		0	2	
	Magnesium	ppm	ASTM D5185m		354	14	
	Calcium	ppm	ASTM D5185m		1187	1967	
	Phosphorus	ppm	ASTM D5185m		614	598	
	Zinc	ppm	ASTM D5185m		748	709	
	Sulfur	ppm	ASTM D5185m		2045	3358	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	9.7	11.1	
	Base Number (BN)		ASTM D2896		5.8	6.1	
	Visc @ 100°C	cSt	ASTM D445		13.3	13.7	







Laboratory

Sample No. Lab Number Unique Number : 10835436

: LEC0047000 : 06064054

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved Diagnosed

: 20 Jan 2024 Diagnostician : Don Baldridge

: 18 Jan 2024

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

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