

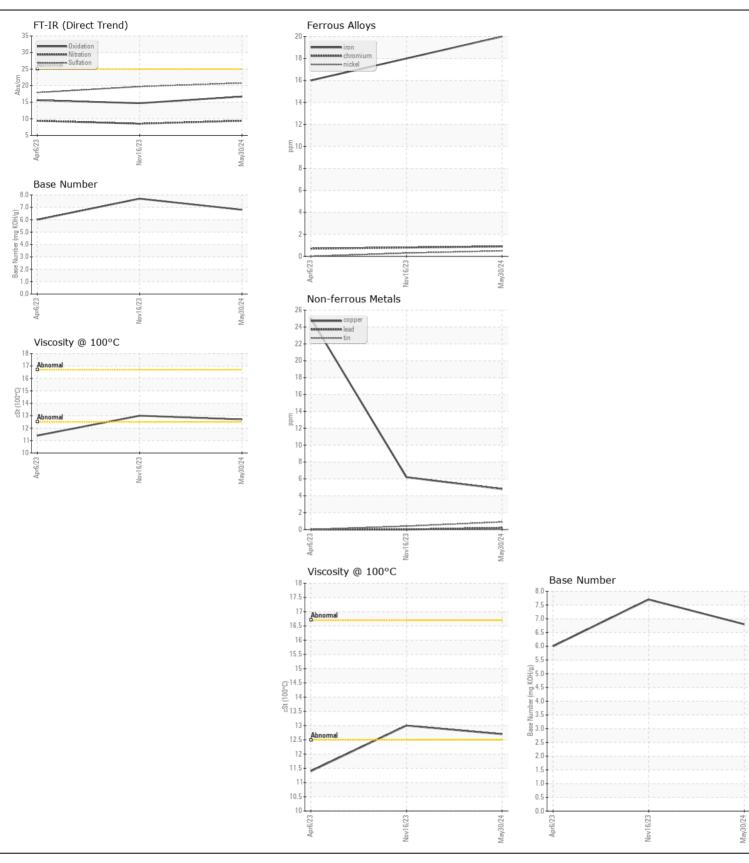


**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Store 9 - Marietta

5082 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0049524	LEC0043990	LEC003464
Resample at the next service interval to monitor.	Sample Date		Client Info		30 May 2024	16 Nov 2023	06 Apr 202
	Machine Age	hrs	Client Info		1020	507	251
	Oil Age	hrs	Client Info		513	256	251
	Filter Age	hrs	Client Info		513	256	251
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	20	18	16
WEART-	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		40	62	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	3
	Lead	ppm	ASTM D5185m		- <1	0	0
	Copper	ppm	ASTM D5185m		5	6	25
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	~I20	10	18	<b>△</b> 30
	Potassium	ppm	ASTM D5185m		3	4	0
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	1.1
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.5	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		20.8	19.7	17.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	2
LOID CONDITION	Boron	ppm	ASTM D5185m		56	139	64
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		2	0	3
	Molybdenum	ppm	ASTM D5185m		33	14	81
	Manganese	ppm	ASTM D5185m		1	1	5
	Magnesium	ppm	ASTM D5185m		421	612	143
	Calcium	ppm	ASTM D5185m		1722	1901	2048
	Phosphorus	ppm	ASTM D5185m		975	1093	958
	Zinc	ppm	ASTM D5185m		1206	1379	1158
	Sulfur	ppm	ASTM D5185m		3593	5302	4113
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	14.7	15.6
	Base Number (BN)		ASTM D2896		6.8	7.7	6.0
					J		0.0







Certificate L2367

Laboratory Sample No. Unique Number : 11085963

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06213099

: LEC0049524

Received **Tested** Diagnosed

: 18 Jun 2024 : 19 Jun 2024

: 20 Jun 2024 - Don Baldridge

Test Package : CONST (Additional Tests: TBN)

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

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

LAROCHE TREE SERVICE 7 COMMERCE PKWY

BELLAIRE, OH US 43906 Contact: GLEN VARGO

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