



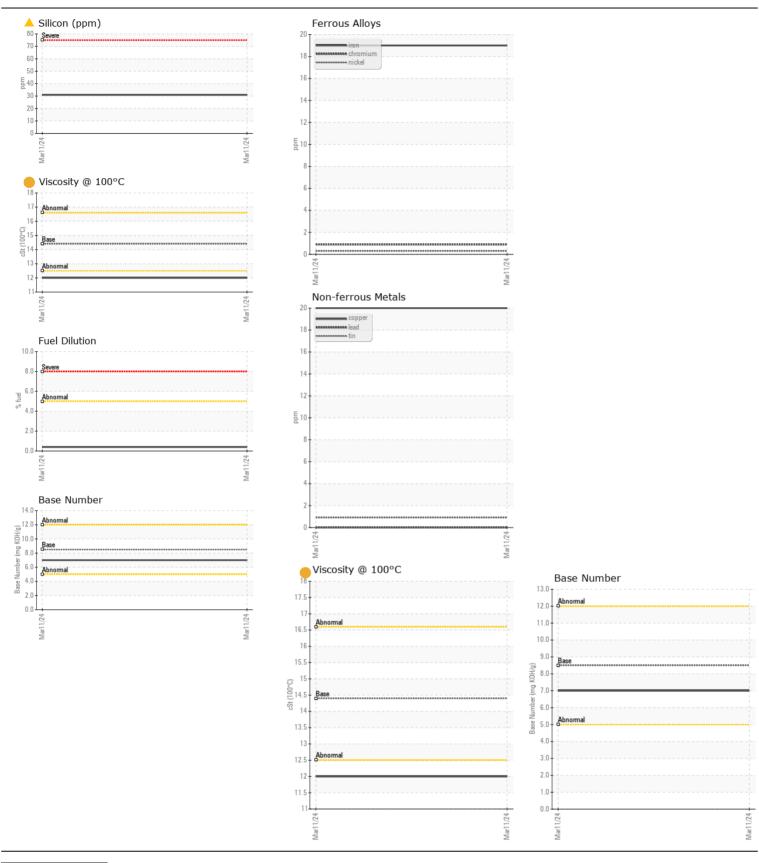
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL ATTENTION** 

Store 9 - Marietta Machine Id 5116

Component Diesel Engine

RECOMMENDATION  No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	Hietonyt	Hieton
	Sample Number	UUIVI	Client Info	LIIIII/AUI	LEC0047013	History1	History2
	Sample Date		Client Info		11 Mar 2024		
	Machine Age	hrs	Client Info		249		
	Oil Age	hrs	Client Info		249		
	Filter Age	hrs	Client Info		249		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Client inio		ABNORMAL		
<u></u>	Sample Status				ADNONWAL		
VEAR	Iron	ppm	ASTM D5185m	>100	19		
· · · <u>-</u> · · · · ·	Chromium	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	>330	20		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m		<u></u> 31		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	9		
	Fuel	%	ASTM D3524	>5	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
I LUD CONDITION	0 "		AOTH DE LOS	450			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		158		
	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m	100	8		
	Manganese	ppm	ASTM D5185m	450	4		
	Magnesium	ppm	ASTM D5185m		128		
	Calcium	ppm	ASTM D5185m	3000	2074		
	Phosphorus	ppm	ASTM D5185m		910		
	Zinc	ppm	ASTM D5185m		1152		
	Sulfur	ppm	ASTM D5185m		3442		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0		
	Base Number (BN)		ASTM D2896	0.5	7.0		







Laboratory Sample No.

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

: LEC0047013 Lab Number : 06122156 Unique Number: 10936307

Received **Tested** Diagnosed

: 25 Mar 2024

: 25 Mar 2024 - Don Baldridge

: 19 Mar 2024

Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, 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)

Report Id: LARBELOH [WUSCAR] 06122156 (Generated: 03/25/2024 11:26:08) Rev: 1

Contact/Location: GLEN VARGO - LARBELOH

LAROCHE TREE SERVICE

7 COMMERCE PKWY

Contact: GLEN VARGO glen.vargo@larochetree.com

BELLAIRE, OH

US 43906

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