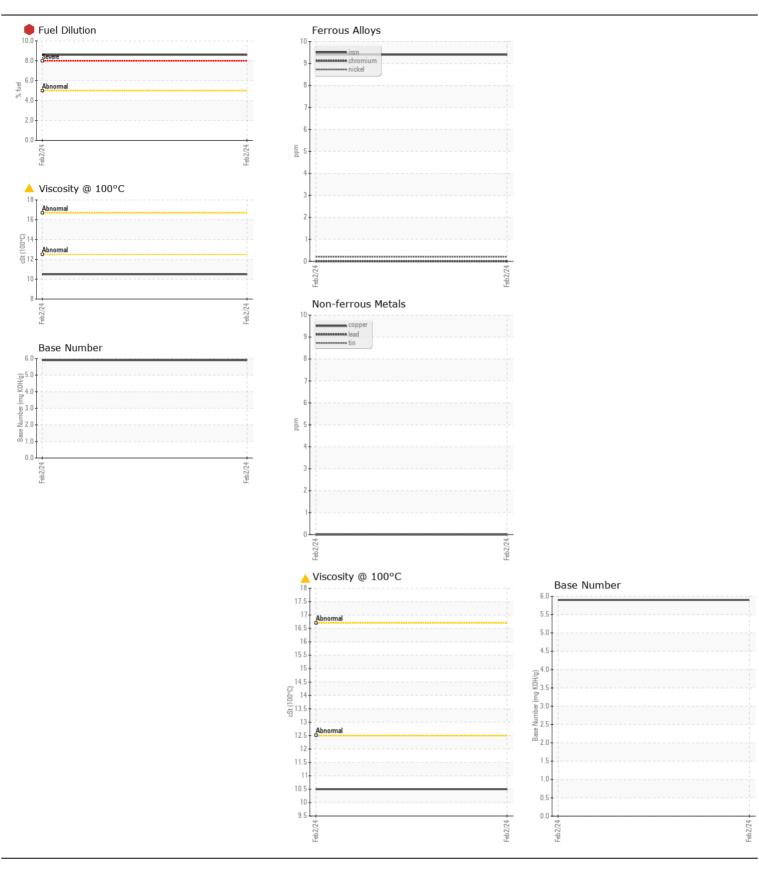
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL SEVERE ABNORMAL** 

Machine Id **97** 

Component Diesel Engine							
{not provided} ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTIOTOTI	WC0719950		
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		02 Feb 2024		
	Machine Age	yrs	Client Info		0		
	Oil Age	yrs	Client Info		1		
	Filter Age	yrs	Client Info		1		
	Oil Changed	7.0	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m		9		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	4		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	0		
	Tin	ppm		>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3		
CONTAMINATION	Potassium	ppm	ASTM D5185m		2		
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D316311		<b>8</b> .6		
	Water	70	WC Method		NEG		
	Glycol		WC Method	70.2	NEG		
	Soot %	%	*ASTM D7844	~3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.7		
	Sulfation	Abs/.1mm	*ASTM D7415		18.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor		*Visual	NORML	NORML		
	Emulsified Water			>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5		
First in account in the city and in law street the The DN second	Boron	ppm	ASTM D5185m		0		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		3		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		26		
	Calcium	ppm	ASTM D5185m		2099		
	Phosphorus	ppm	ASTM D5185m		865		
	Zinc	ppm	ASTM D5185m		1004		
	Sulfur	ppm	ASTM D5185m		3396		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0		
	Base Number (BN)	mg KOH/g	ASTM D2896		5.9		
	Visc @ 100°C	cSt	ASTM D445		<u> </u>		







Laboratory

Sample No.

Lab Number : 06087949 Unique Number : 10875394

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0719950

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

**Tested** Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 13 Feb 2024 : 16 Feb 2024

: 16 Feb 2024 - Jonathan Hester

**ALMSTEAD TREE & SHRUB CARE CO** 15 BROADWAY HAWTHORNE, NY

> US 10532 Contact: MICHAEL ALMSTEAD

malmstead@almstead.com

T: F:

\* - 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)