

WEAR CONTAMINATION **FLUID CONDITION**

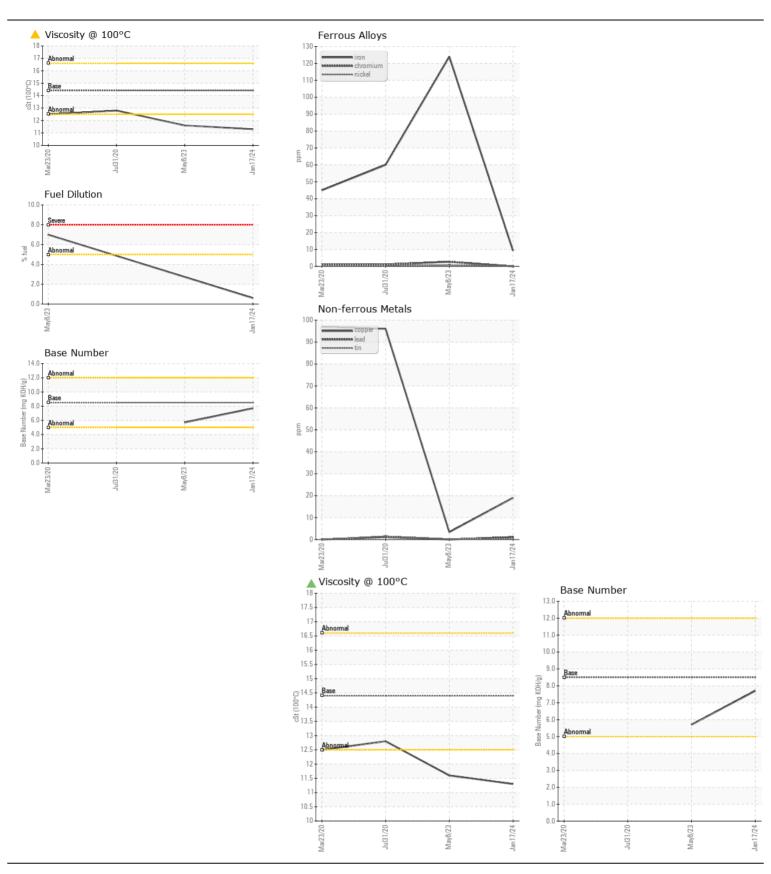
NORMAL NORMAL ATTENTION

Machine Id

Component Diesel Engine

DIESEL	ENGINE C	OIL SAE 4	40 (QTS)
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Nil and filter about a the time of acception has been united December.	Sample Number		Client Info		WC0719776	WC0719773	WCM138397
Dil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		17 Jan 2024	08 May 2023	31 Jul 202
it the next service interval to monitor.	Machine Age	hrs	Client Info		2520	2425	1657
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ATTENTION	ABNORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	9	<u> </u>	60
	Chromium	ppm	ASTM D5185m	>20	0	3	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	5	6
	Lead	ppm	ASTM D5185m		1	0	1
	Copper	ppm	ASTM D5185m	>330	19	3	96
	Tin	ppm	ASTM D5185m		<1	<1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	> 25	4	12	9
CONTAININATION	Potassium	ppm	ASTM D5185m		<1	5	5
Fuel content negligible. There is no indication of any contamination in	Fuel	%	ASTM D316311		0.6	<u>→</u> 7.0	<1.0
he oil.	Water	/6	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.2	1	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	14.4	9.4
	Sulfation	Abs/.1mm	*ASTM D7024		18.3	41.5	21.9
	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
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION	Codium		ACTM DE10Em	. 016	4	0	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	9	9
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		0	<1 0	
here is suitable alkalinity remaining in the oil. Confirm oil type.	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		31	90	<1
	Manganese	ppm	ASTM D5185m	100	ان <1	1	1
	Magnesium	ppm	ASTM D5185m	150	17	20	43
	Calcium	ppm	ASTM D5185m		2502	3532	2279
	Phosphorus	ppm	ASTM D5185m		978	1192	860
	Zinc	ppm	ASTM D5185m		978 1152	1455	1047
		ppm					
	Sulfur Oxidation	ppm Abo/ 1mm	*ASTM D5185m		7308	14569	3069
	Base Number (BN)	Abs/.1mm			11.5 7.7	32.7 5.7	13.5
			MAN LIVILLIZAMA	0 :1		:1/	







Laboratory

Sample No.

Lab Number : 06087951

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0719776

Unique Number: 10875396

Received **Tested** Diagnosed : 13 Feb 2024

: 19 Feb 2024

: 19 Feb 2024 - Doug Bogart

Test Package: FLEET (Additional Tests: PercentFuel) 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)

ALMSTEAD TREE & SHRUB CARE CO 58 BEECHWOOD AVE

NEW ROCHELLE, NY US 10801

Contact:

T:

F: