

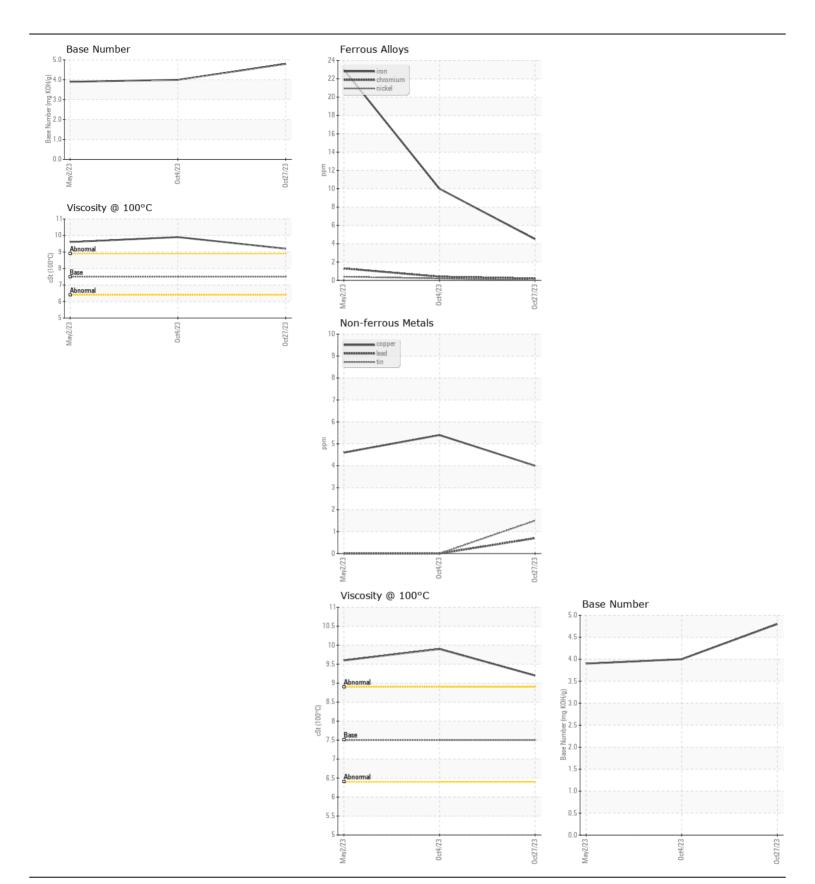
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

Component Gasoline Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0847979	WC0847920	WC075998
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Oct 2023	04 Oct 2023	02 May 202
	Machine Age	mls	Client Info		210977	209140	198375
	Oil Age	mls	Client Info		1837	5014	0
	Filter Age	mls	Client Info		1837	5014	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>150	4	10	23
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>40	2	6	1
	Lead	ppm	ASTM D5185m	>50	<1	0	0
	Copper	ppm	ASTM D5185m	>155	4	5	5
	Tin	ppm	ASTM D5185m	>10	2	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	9	10	12
SONTAMINATION	Potassium	ppm	ASTM D5185m		<1	2	<1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	9.8	10.2
	Sulfation	Abs/.1mm	*ASTM D7415		15.6	19.6	21.0
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<u>~50</u>	2	1	3
LOID CONDITION	Boron	ppm	ASTM D5185m		92	11	28
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		100	277	244
	Manganese	ppm	ASTM D5185m	100	<1	0	<1
	Magnesium	ppm	ASTM D5185m	12	478	474	477
	Calcium	ppm	ASTM D5185m		902	1247	1202
	Phosphorus	ppm	ASTM D5185m		565	558	627
	Zinc	ppm	ASTM D5185m		689	762	776
	Sulfur	ppm	ASTM D5185m		2233	2124	1916
	Oxidation	Abs/.1mm	*ASTM D7414		9.0	14.3	15.4
	Base Number (BN)			7 2 3	4.8	4.0	3.9
	2400 (14111001 (1111)			7.5		9.9	9.6







Certificate L2367

Unique Number

Laboratory Sample No. Lab Number

: WC0847979 : 06061850 : 10833232

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024

Diagnosed : 17 Jan 2024 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: TBN)

US 17202 Contact: Service Manager

5436 Sunset Pike

Chambersburg, PA

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)

T: F:

Apple Valley Waste - Chambersburg Location