

WEAR CONTAMINATION FLUID CONDITION

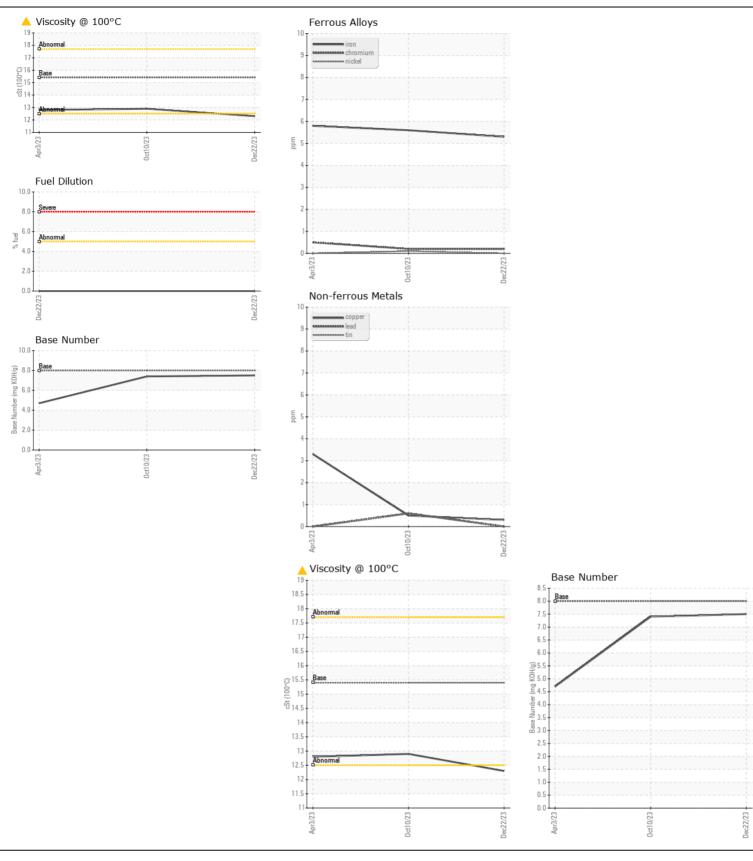
NORMAL NORMAL MARGINAL

Machine Id

G61

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0841452	WC0841474	WC075895
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		22 Dec 2023	10 Oct 2023	03 Apr 202
	Machine Age	hrs	Client Info		13247	12721	11531
	Oil Age	hrs	Client Info		527	632	471
	Filter Age	hrs	Client Info		527	632	471
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	5	6	6
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	7 7	0	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	3
	Tin	ppm	ASTM D5185m		0	<1	0
	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	nnm	ASTM D5185m	. 25	2	4	6
	Potassium	ppm	ASTM D5185m		3 2	3	6 <1
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3163111		0.0	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 3	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7644	>20	7.7	7.6	8.3
	Sulfation	Abs/.1mm	*ASTM D7024		18.4	19.4	17.0
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	0
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		11	11	28
there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		71	66	52
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		849	877	84
	Calcium	ppm	ASTM D5185m	1000	1115	1334	2089
	Phosphorus	ppm	ASTM D5185m		958	1050	882
	Zinc	ppm	ASTM D5185m	1300	1159	1372	1096
	Sulfur	ppm	ASTM D5185m	05	3215	3371	4093
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		13.4 7.5	14.0 7.4	11.5 4.7







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0841452 : 06057218

: 10823167

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

: 10 Jan 2024 : 12 Jan 2024 Diagnostician : Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Contact: Service Manager

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)

Apple Valley Waste - SEW Location 309 Salina Road

Sewell, NJ US 08080

T: F: