WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

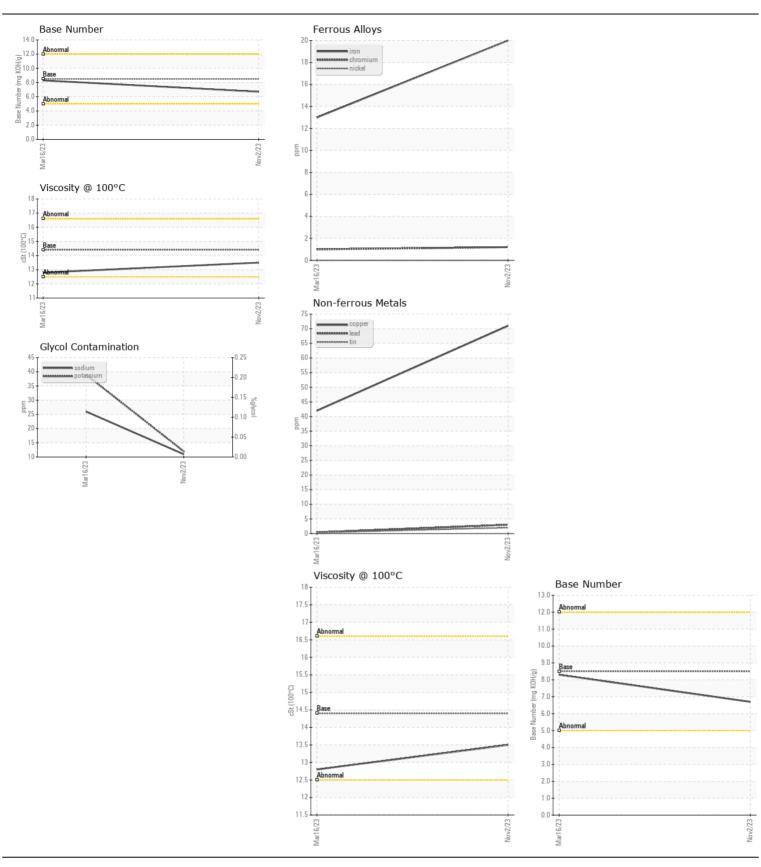
Machine Id 1638

Component Diesel Engine

DIESEL	ENGINE OIL	SAE 15W40	(GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Pagample at the payt carries interval to maniter	Sample Number		Client Info		WC0847977	WC0760007	
Resample at the next service interval to monitor.	Sample Date		Client Info		02 Nov 2023	16 Mar 2023	
	Machine Age	hrs	Client Info		12856	11704	
	Oil Age	hrs	Client Info		1152	0	
	Filter Age	hrs	Client Info		1152	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>110	20	13	
	Chromium	ppm	ASTM D5185m	>4	1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>25	4	0	
	Lead	ppm	ASTM D5185m	>45	3	<1	
	Copper	ppm	ASTM D5185m	>85	71	42	
	Tin	ppm	ASTM D5185m	>4	2	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	~30	7	7	
CONTAMINATION	Potassium	ppm	ASTM D5185m		12	3 9	
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol	%	*ASTM D2982	70.L	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	21.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m	. 150	11	26	
LOID CONDITION	Boron	ppm	ASTM D5185m		11 7	4	
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm ppm	ASTM D5185m		0	0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		69	71	
	Manganese	ppm	ASTM D5185m	100	<1	<1	
	Magnesium	ppm	ASTM D5185m	450	956	944	
	Calcium	ppm	ASTM D5185m		1211	1257	
	Phosphorus	ppm	ASTM D5185m		950	1062	
	Zinc	ppm	ASTM D5185m		1282	1318	
	Sulfur	ppm	ASTM D5185m		2429	3367	
	Oxidation	Abs/.1mm	*ASTM D7414		21.4	17.3	
	Base Number (BN)				6.7	8.3	
	Visc @ 100°C	cSt	ASTM D445		13.5	12.8	

Submitted By: BOB MCQUADE







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

: WC0847977 : 06061849 : 10833231

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

Diagnosed : 17 Jan 2024 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: Glycol, 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)

Apple Valley Waste - Chambersburg Location

5436 Sunset Pike Chambersburg, PA

US 17202

Contact: Service Manager

T:

F: