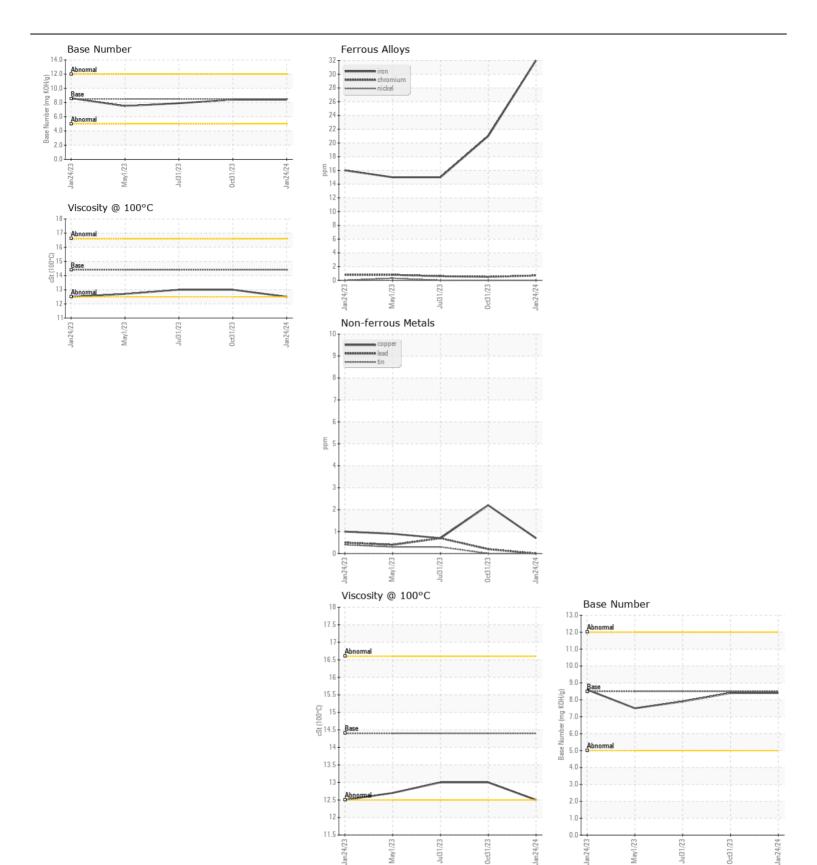
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

1640

Component

Component Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0858134	WC0858124	
	Sample Date		Client Info		24 Jan 2024		31 Jul 2023
	Machine Age	hrs	Client Info		12064	11577	11127
	Oil Age	hrs	Client Info		520	520	520
	Filter Age	hrs	Client Info		520	520	520 Observed
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>110	32	21	15
	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	13	12	2
	Lead	ppm	ASTM D5185m	>45	0	<1	<1
	Copper	ppm	ASTM D5185m	>85	<1	2	<1
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	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	× 30	4	6	5
CONTAININATION	Potassium	ppm	ASTM D5185m		21	28	4
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
your metals analysis are likely a result of solder flux release into the	Water		WC Method		NEG	NEG	NEG
lubricant and is common on new equipment/components. There is no	Glycol		WC Method	70.L	NEG	NEG	NEG
indication of any contamination in the oil.	Soot %	%	*ASTM D7844	>3	0.6	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.8	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	20.3	19.6
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION	Codi		ACTM DE405:	. 150	<u></u>	4	4
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	1	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm	ASTM D5185m ASTM D5185m		9	2	0
oil. The condition of the oil is suitable for further service.		ppm			0	0	0
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	100	60	64 0	68 <1
	Magnesium	ppm	ASTM D5185m	450	<1 902	925	1058
	Calcium	ppm	ASTM D5185m		1119	1097	1303
	Phosphorus	ppm	ASTM D5185m		993	929	1130
	Zinc	ppm	ASTM D5185m		1170	1234	1444
	Sulfur	ppm	ASTM D5185m		3021	3319	4119
	Oxidation	Abs/.1mm	*ASTM D7414		15.2	16.1	15.6
	Base Number (BN)		ASTM D2896		8.4	8.4	7.9
	Visc @ 100°C	cSt	ASTM D445		12.5	13.0	13.0
		001			<u> </u>		







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: WC0858134 : 06073554 : 10850231

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024

Diagnosed : 30 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: 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 - Hometown Location

155 Airport Road Selinsgrove, PA

US 17870

Contact: Service Manager

T:

F: