

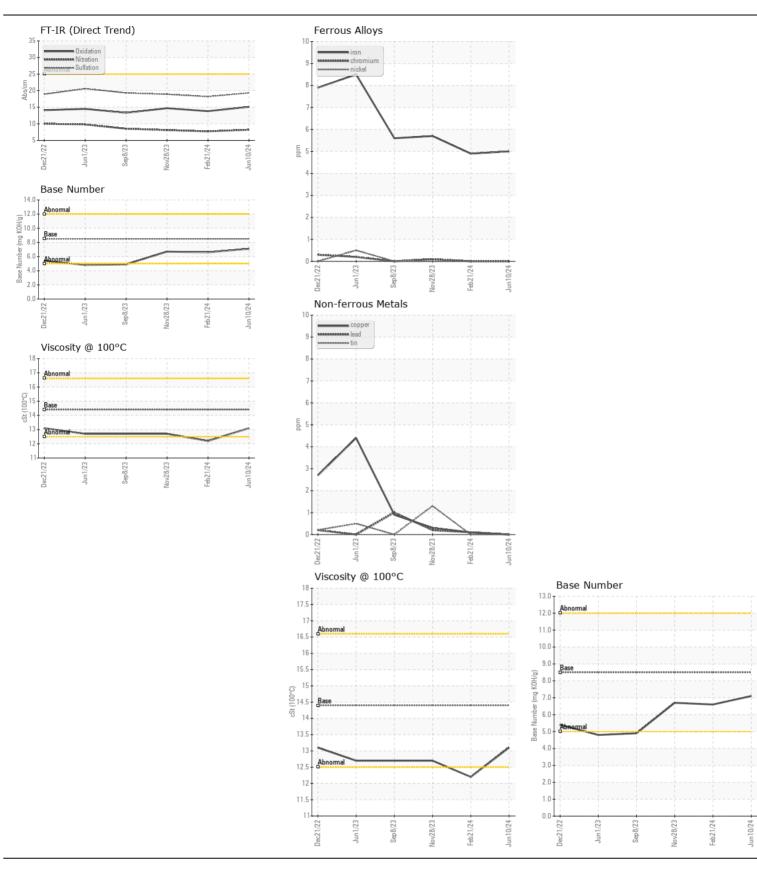
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL



Machine Id **G56** Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W	40 (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		WC0841442	WC0841424	WC0841461
	Sample Date		Client Info		10 Jun 2024	21 Feb 2024	28 Nov 2023
	Machine Age	hrs	Client Info		15588	15034	14509
	Oil Age	hrs	Client Info		554	525	294
	Filter Age	hrs	Client Info		554	525	294
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	\120	5	5	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	2
	Lead	ppm	ASTM D5185m	>40	0	<1	<1
	Copper	ppm	ASTM D5185m		0	<1	<1
	Tin	ppm	ASTM D5185m		0	0	1
	Vanadium	ppm	ASTM D5185m	710	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	3	4	5
	Potassium	ppm	ASTM D5185m		ر <1	0	<1
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	0.7	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	- 1	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.7	8.1
	Sulfation	Abs/.1mm	*ASTM D7024		19.3	18.2	18.9
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	2
	Boron	ppm	ASTM D5185m		4	11	8
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		55	60	63
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m	450	859	777	873
	Calcium	ppm	ASTM D5185m		1121	1048	1322
	Phosphorus	ppm	ASTM D5185m		958	813	1062
	Zinc	ppm	ASTM D5185m		1138	994	1266
	Sulfur	ppm	ASTM D5185m		3327	3007	3233
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	13.8	14.7
	Base Number (BN)				7.1	6.6	6.7
	Visc @ 100°C	cSt	ASTM D445		13.1	12.2	12.7







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06214301

: WC0841442

Received **Tested** Unique Number : 11087165 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 19 Jun 2024

: 20 Jun 2024 : 20 Jun 2024 - Wes Davis

Apple Valley Waste - SEW Location 309 Salina Road

Sewell, NJ US 08080 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)

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F: