

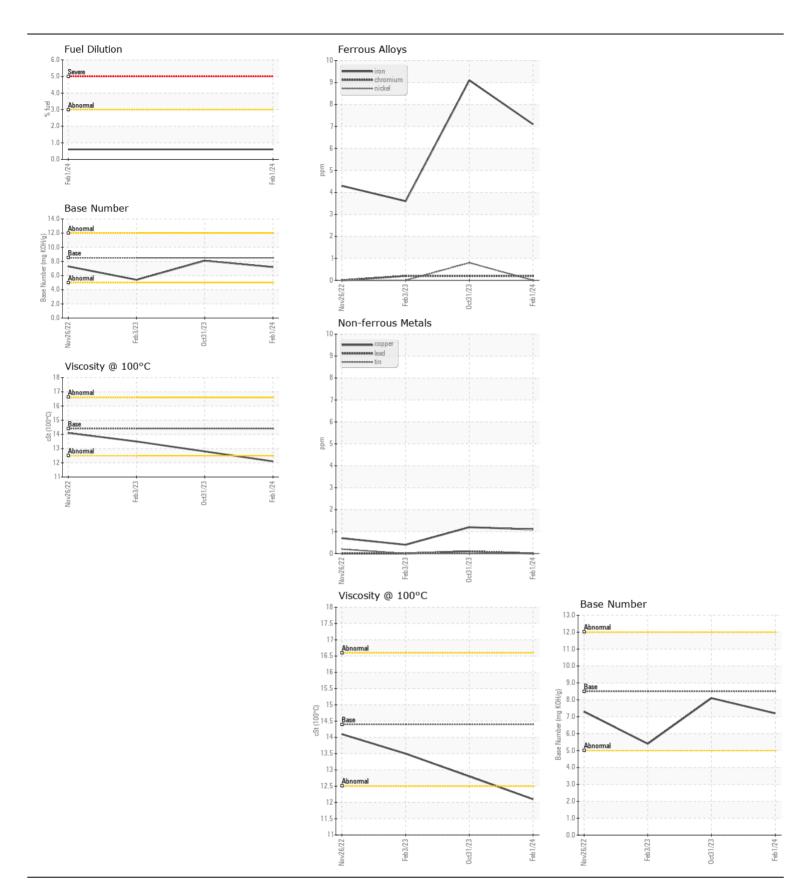
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id **G87**Component **Diesel Engine**Fluid

DIESEL ENGINE OIL SAE 15W4	10 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	OOW	Client Info	LITTIO/TOTT	WC0841411	WC0841472	,
	Sample Date		Client Info		01 Feb 2024	31 Oct 2023	03 Feb 2023
	Machine Age	hrs	Client Info		8276	7874	6513
	Oil Age	hrs	Client Info		621	752	431
	Filter Age	hrs	Client Info		621	752	431
	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	7	9	4
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	1	1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		1	1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	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	ppm	ASTM D5185m	>25	2	4	4
	Potassium	ppm	ASTM D5185m		2	2	0
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>3.0	0.6	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.5	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.3	18.6
	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 *Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
	Emulsified Water	Scalai	VISUAI	>0.2		NEG	INEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	1	0
	Boron	ppm	ASTM D5185m	250	11	7	60
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	10	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	68	62	86
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		760	761	61
	Calcium	ppm	ASTM D5185m	3000	1075	1202	2126
	Phosphorus	ppm	ASTM D5185m		940	907	980
	Zinc	ppm	ASTM D5185m		1065	1158	1201
	Sulfur Oxidation	ppm Abo/ 1mm	ASTM D5185m		3013	3336	4365
	Base Number (BN)	Abs/.1mm	*ASTM D7414		13.9 7.2	14.3 8.1	14.0 5.4
	Visc @ 100°C	cSt	ASTM D2090 ASTM D445		12.1	12.8	13.5
	V130 @ 100 0	COL	CFFC IVI D1	17.4	12.1	12.0	10.0







Laboratory Sample No.

Lab Number : 06086855

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0841411

Unique Number : 10874300

Received **Tested** Diagnosed

: 13 Feb 2024 : 14 Feb 2024

: 14 Feb 2024 - Wes Davis

Apple Valley Waste - SEW Location 309 Salina Road

Sewell, NJ US 08080 Contact: Service Manager

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, 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)

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