

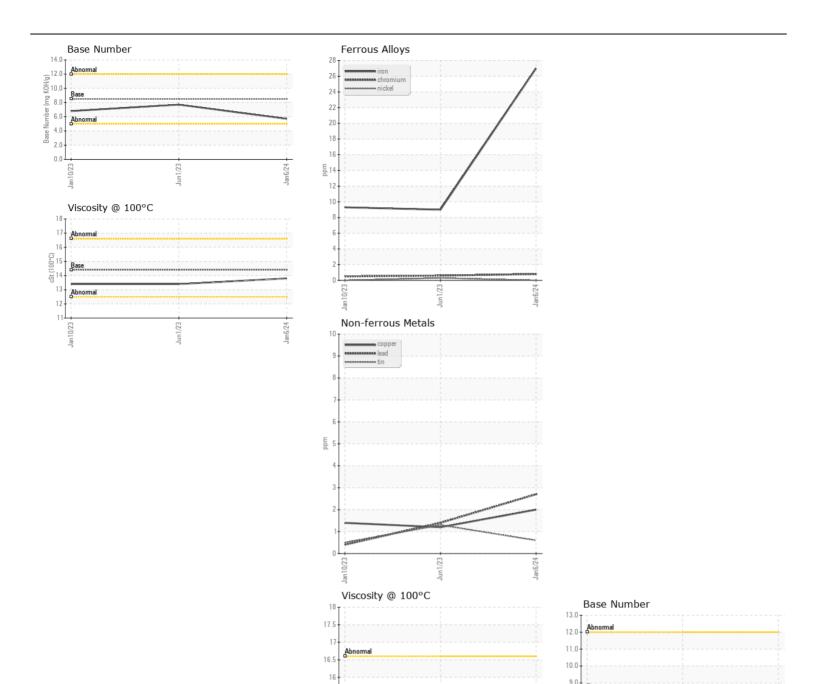
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id
L4168
Component
Diesel Engine
Fluid

Diesel Engine Pluid DIESEL ENGINE OIL SAE 15W4	10 ( GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMINIENDATION	Sample Number	OOW	Client Info	LITTIU/ADIT	WC0847895	WC0759983	WC0759974
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		06 Jan 2024	01 Jun 2023	10 Jan 2023
	Machine Age	hrs	Client Info		8903	7310	6962
	Oil Age	hrs	Client Info		1593	6962	0
	Filter Age	hrs	Client Info		1593	6962	0
	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	27	9	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	1
	Lead	ppm	ASTM D5185m		3	1	<1
	Copper	ppm	ASTM D5185m		2	1	1
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	3	3
There is no indication of any contamination in the oil	Potassium	ppm	ASTM D5185m	>20	<1	3	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.7	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	7.9	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.1	19.2	19.8
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	10	6	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	9	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	<1
	Molybdenum	ppm	ASTM D5185m	100	65	63	61
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		915	920	864
	Calcium	ppm	ASTM D5185m		1254	1237	1140
	Phosphorus	ppm	ASTM D5185m		985	988	955
	Zinc	ppm	ASTM D5185m		1246	1229	1183
	Sulfur	ppm	ASTM D5185m		2610	3477	2960
	Oxidation	Abs/.1mm	*ASTM D7414		19.5	14.2	14.9
	Base Number (BN)				5.7	7.7	6.8
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.4	13.4







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

: WC0847895 : 06061806 : 10833188

15.5

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13.

12.5

11.5

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

Diagnosed : 18 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN)

KOH/g) (mg

> 6.0 5.0

Contact: Service Manager

Apple Valley Waste - Chambersburg Location

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)

5436 Sunset Pike

US 17202

T:

F:

Chambersburg, PA