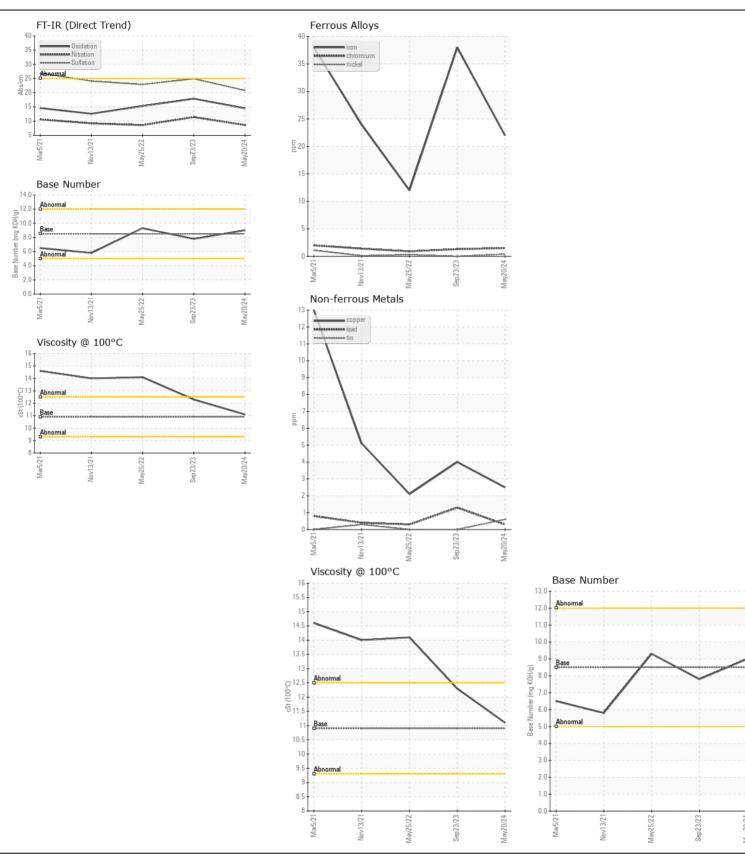
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

2014
Component
Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEGOMMENDATION	Sample Number	OOW	Client Info	LITTIOTALIT	WC0852707		WC0658603
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		20 May 2024	23 Sep 2023	25 May 2022
	Machine Age	mls	Client Info		197825	189281	171583
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	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	>100	22	38	12
WEAIT	Chromium	ppm	ASTM D5185m		2	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m	77	<1	0	<1
	Silver	ppm	ASTM D5185m	\3	0	0	<1
	Aluminum	ppm	ASTM D5185m		2	<1	2
	Lead	ppm	ASTM D5185m		<1	1	<1
	Copper	ppm	ASTM D5185m		2	4	2
	Tin	ppm	ASTM D5185m		- <1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ACTM DE10Em	. 05	6	7	6
CONTAMINATION	Potassium	ppm	ASTM D5185m ASTM D5185m	>25	6 3	4	6
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	0.2	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	1.4	2.3	1.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	11.4	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		20.8	24.9	22.9
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1	3	2
FLOID CONDITION	Boron	ppm	ASTM D5185m	250	7	12	67
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		61	66	53
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	907	841	322
	Calcium	ppm	ASTM D5185m		1087	1466	1846
	Phosphorus	ppm	ASTM D5185m		1121	1077	1000
	Zinc	ppm	ASTM D5185m		1267	1353	1208
	Sulfur	ppm	ASTM D5185m		3526	3319	3866
	Oxidation	Abs/.1mm	*ASTM D7414		14.5	17.9	15.3
	Base Number (BN)				9.0	7.8	9.3
	Visc @ 100°C	cSt	ASTM D445		11.1	12.3	14.1
			2				







Certificate L2367

Laboratory Sample No.

Lab Number : 06197370 Unique Number : 11059493 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0852707 Received : 03 Jun 2024 **Tested** : 04 Jun 2024

Diagnosed : 04 Jun 2024 - Wes Davis

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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