

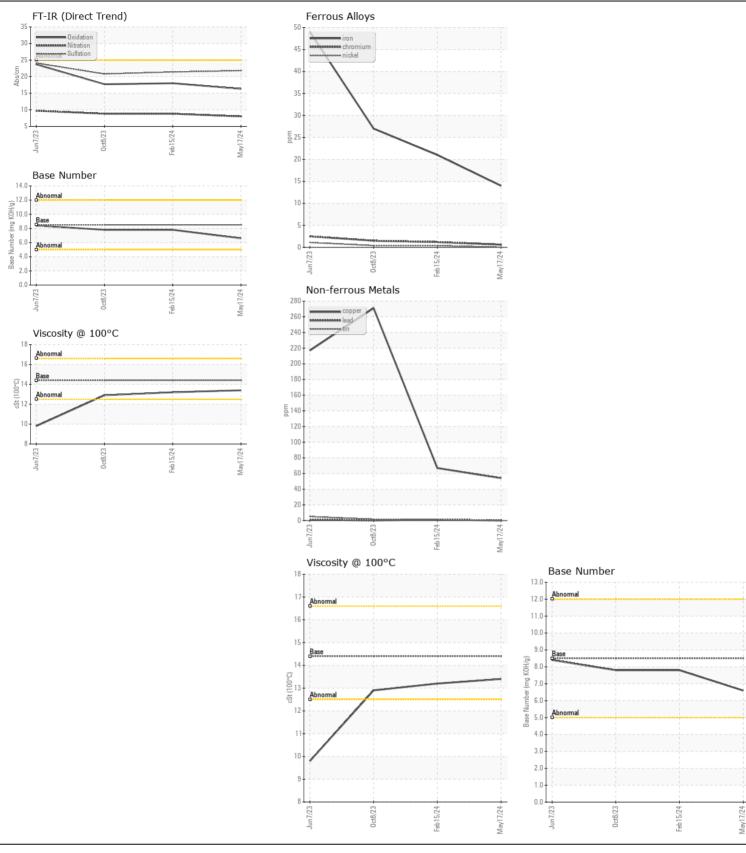
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

21605
Component
Diesel Engine

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (GAL)							
	Toot	11014	Mothod	سطا المالية	Current	Lliotom:4	Llioto = :0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current WC0929227	History1	History2
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 Number Sample Date		Client Info			WC0842039 15 Feb 2024	WC0841941 08 Oct 2023
	Machine Age	mle	Client Info		17 May 2024 74160	55426	08 Oct 2023
	Oil Age	mls mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Ollent lillo		NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	21	27
Motal lavels are typical for a new component breaking in	Chromium	ppm	ASTM D5185m	>20	<1	1	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		<1	<1	0
	Aluminum	ppm	ASTM D5185m	>20	7	12	30
	Lead	ppm	ASTM D5185m		0	1	<1
	Copper	ppm	ASTM D5185m		54	67	271
	Tin	ppm	ASTM D5185m	>15	0	1	2
	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	> 25	4	5	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		14	28	83
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	ppili	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
	Nitration	Abs/cm		>20	8.0	8.8	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	21.4	20.8
	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			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		201	8	5
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	82	67	64
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		514	970	929
	Calcium	ppm	ASTM D5185m		1389	1112	1235
	Phosphorus	ppm	ASTM D5185m		1013	1029	895
	Zinc	ppm	ASTM D5185m		1270	1278	1201
	Sulfur	ppm	ASTM D5185m		3114	2469	2652
	Oxidation	Abs/.1mm	*ASTM D7414		16.3	18.0	17.7
	Base Number (BN)		ASTM D2896		6.6	7.8	7.8
	Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.2	12.9







Laboratory Sample No.

Lab Number : 06229504 Unique Number : 11112997 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0929227 Received : 05 Jul 2024 **Tested** : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

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Certificate L2367 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)