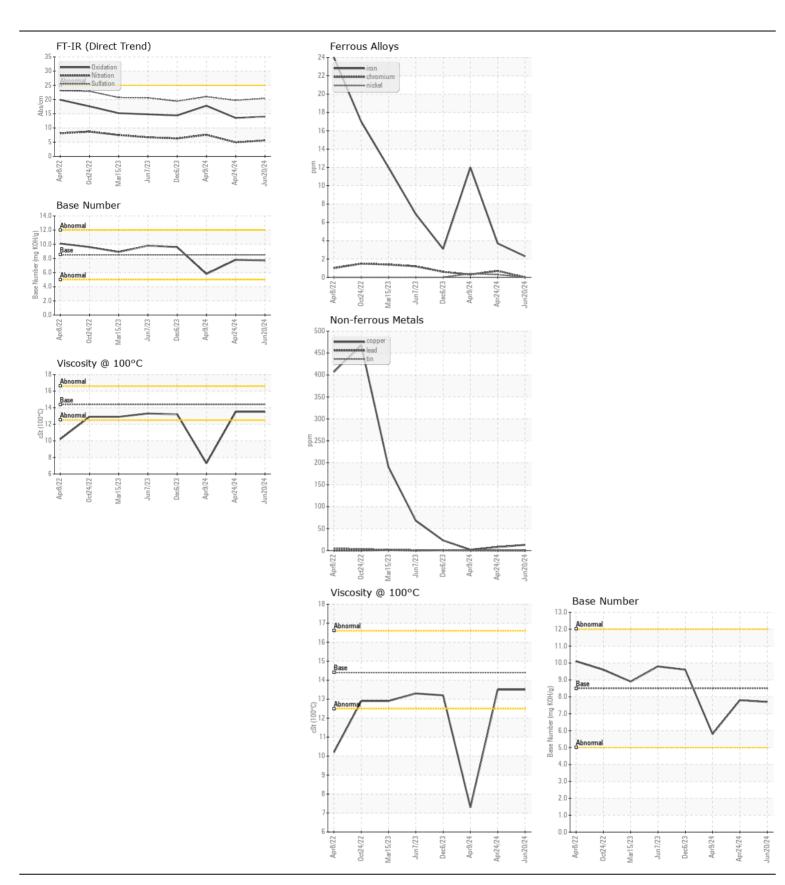
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **34099**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0945838	WC0903126	WC090322
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 Jun 2024	24 Apr 2024	09 Apr 202
	Machine Age	mls	Client Info		60000	51480	50639
	Oil Age	mls	Client Info		60000	0	0
	Filter Age	mls	Client Info		60000	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				NORMAL	NORMAL	SEVERE
VEAD			AOTH DE LOS	400			40
VEAR	Iron	ppm	ASTM D5185m		2	4	12
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	2
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		5	4	4
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		13	8	2
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	0	<1 NONE	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	7
	Potassium	ppm	ASTM D5185m	>20	10	5	5
Elevated aluminum (Al) 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		WC Method	>5	<1.0	0.2	22.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	4.9	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.7	21.0
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	\158	1	3	2
LOID CONDITION	Boron	ppm	ASTM D5185m		348	381	171
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	2	0
	Molybdenum	ppm	ASTM D5185m		80	70	60
	Manganese	ppm	ASTM D5185m	100	<1	<1	2
	Magnesium	ppm	ASTM D5185m	450	460	447	421
	Calcium	ppm	ASTM D5185m		1352	1311	1123
	Phosphorus	ppm	ASTM D5185m		991	913	746
	Zinc	ppm	ASTM D5185m		1212	1070	843
	Sulfur	ppm	ASTM D5185m		3695	3217	2669
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	13.5	17.8
	Base Number (BN)				7.7	7.8	5.8
		9					5.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06220533

: WC0945838 Unique Number : 11098730 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 **Tested** : 26 Jun 2024

Diagnosed : 26 Jun 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

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)

T: (336)767-9642 F: x: