**WEAR** CONTAMINATION **FLUID CONDITION** 

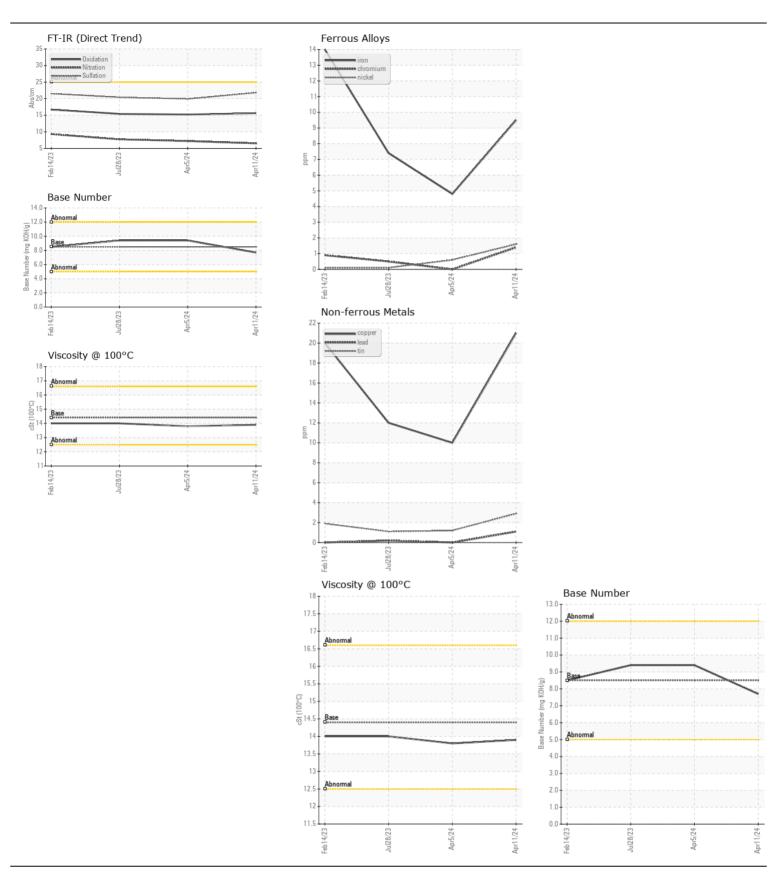
**NORMAL NORMAL NORMAL** 

Machine Id

## **DFA28087**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0925933	WC0925938	WC0820964
Resample at the next service interval to monitor.	Sample Date		Client Info		11 Apr 2024	05 Apr 2024	28 Jul 2023
	Machine Age	mls	Client Info		199872	0	0
	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	10	5	7
NEAR	Chromium	ppm	ASTM D5185m		1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	<1	<1
	Titanium	ppm	ASTM D5185m		- <1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		6	4	2
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		21	10	12
	Tin	ppm	ASTM D5185m		3	1	1
	Vanadium	ppm	ASTM D5185m	710	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	3	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	5	5
There is no malcallon of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624		6.5	7.2	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	19.9	20.4
	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	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	1	1
	Boron	ppm	ASTM D5185m	250	560	<1	0
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	<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	119	60	61
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	676	996	1003
	Calcium	ppm	ASTM D5185m		1964	1108	1124
	Phosphorus	ppm	ASTM D5185m		1706	1100	1043
	Zinc	ppm	ASTM D5185m		1883	1326	1290
	Sulfur	ppm	ASTM D5185m	4250	5720	3769	3655
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	15.2	15.4
	Base Number (BN)				7.7	9.4	9.4
	. ,	0					







Certificate L2367

Laboratory Sample No.

Lab Number : 06152542

: WC0925933 Unique Number: 10982620 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested** : 18 Apr 2024

Diagnosed : 22 Apr 2024 - Don Baldridge

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

\* - 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: