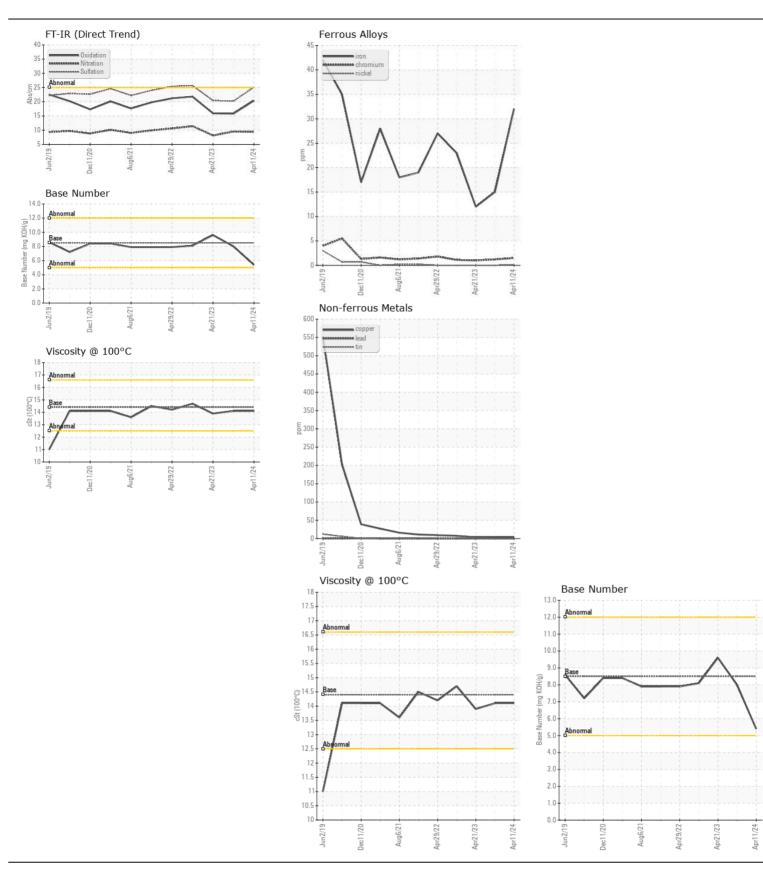
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

## 51295 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	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		Client Info		WC0929021	WC0742257	WC074219
	Sample Date		Client Info		11 Apr 2024	29 Jul 2023	21 Apr 202
	Machine Age	mls	Client Info		658157	554787	518802
	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	NORMAI
WEAR	Iron	ppm	ASTM D5185m	>100	32	15	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	1	1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	18	6	7
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	4	3	3
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	5	3
	Potassium	ppm	ASTM D5185m	>20	1	2	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.5	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	20.2	20.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	5	<1	0
	Boron	ppm	ASTM D5185m		105	0	2
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	100	84	66	67
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	576	985	992
	Calcium	ppm	ASTM D5185m		1373	1134	1151
	Phosphorus	ppm	ASTM D5185m		1064	1014	1070
	Zinc	ppm	ASTM D5185m		1322	1269	1316
	Sulfur	ppm	ASTM D5185m		3245	3151	3875
	Oxidation	Abs/.1mm	*ASTM D7414		20.4	15.8	15.9
	Base Number (BN)				5.4	8.0	9.6
	Visc @ 100°C	cSt	ASTM D445		14.1	14.1	13.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06191644 Unique Number: 11048396

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0929021

**Tested** Diagnosed Test Package : FLEET

: 24 May 2024 : 29 May 2024 : 29 May 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE

WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com T: (336)767-9642

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) F: x: