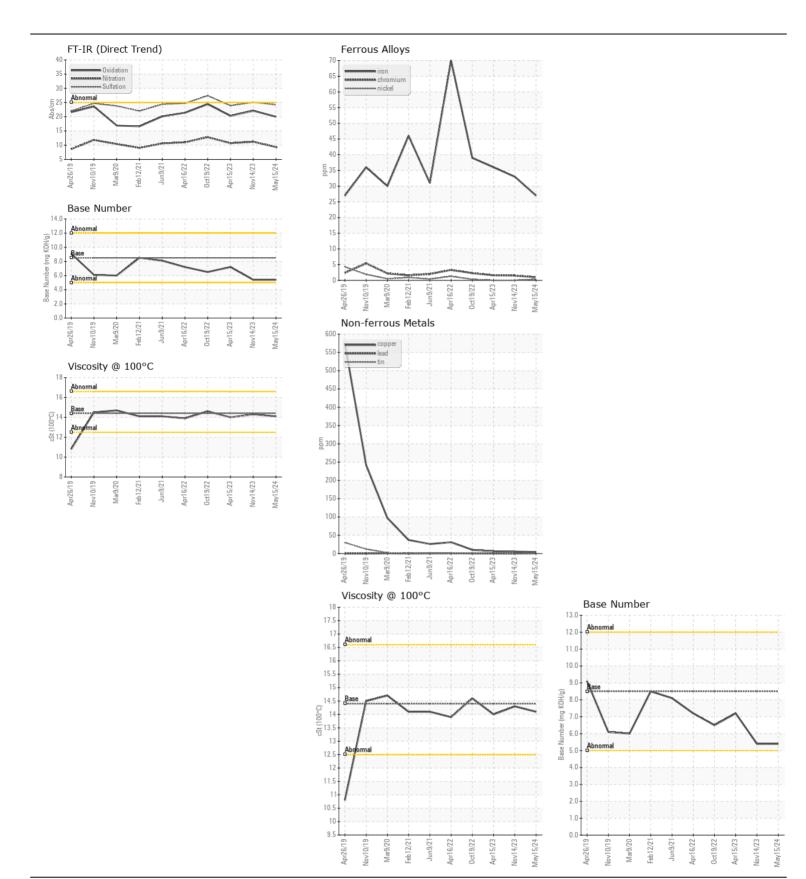
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

51299 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the	Sample Number		Client Info		WC0928972	WC0842179	WC074219
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		15 May 2024	14 Nov 2023	15 Apr 202
	Machine Age	mls	Client Info		542579	491504	427766
	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	27	33	36
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	2	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	14	13	14
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	4	5	6
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	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	ppm	ASTM D5185m	>25	9	9	6
	Potassium	ppm	ASTM D5185m	>20	1	3	3
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	0.7	1	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	11.2	10.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	25.1	23.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	0	0
The DN was the indicator that there is suitable all all all and the control of th	Boron	ppm	ASTM D5185m	250	59	3	1
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	79	70	71
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	641	968	984
	Calcium	ppm	ASTM D5185m	3000	1377	1249	1196
	Phosphorus	ppm	ASTM D5185m	1150	1009	1039	1076
	Zinc	ppm	ASTM D5185m		1325	1320	1342
	Sulfur	ppm	ASTM D5185m	4250	3389	3510	3127
	Oxidation	Abs/.1mm	*ASTM D7414		20.0	22.1	20.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.4	5.4	7.2
	Visc @ 100°C	cSt	ASTM D445	111	14.1	14.3	14.0







Certificate L2367

Laboratory

Sample No.

: WC0928972 Lab Number : 06190086 Unique Number : 11046838 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 28 May 2024

Diagnosed : 28 May 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)

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