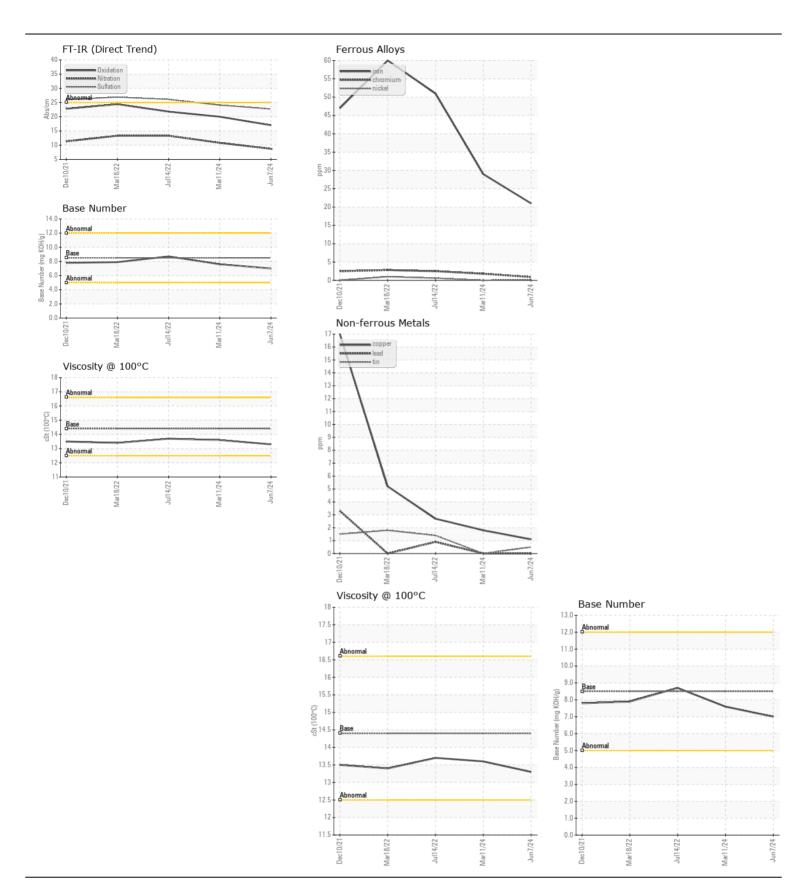
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

13711 Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS)							
	T		Matte a d	Line is / Allere		L C Control of	I Estano
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.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number Sample Date		Client Info		WC0938982 07 Jun 2024	WC0829584 11 Mar 2024	WC0710818 14 Jul 2022
	Machine Age	mls	Client Info		07 Jun 2024 0	118151	53720
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status		Oliciti illio		NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	21	29	51
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	2	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	12	13	14
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	1	2	3
	Tin	ppm	ASTM D5185m	>15	<1	0	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	9
	Potassium	ppm	ASTM D5185m		25	18	24
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	le le	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	0.7	0.9	1
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	10.8	13.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	24.1	26.1
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	2
	Boron	ppm	ASTM D5185m	250	258	91	4
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	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	82	95	67
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	480	901	1026
	Calcium	ppm	ASTM D5185m	3000	1400	1453	1187
	Phosphorus	ppm	ASTM D5185m	1150	1017	930	1103
	Zinc	ppm	ASTM D5185m	1350	1261	1151	1359
	Sulfur	ppm	ASTM D5185m	4250	3706	3444	3729
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	20.0	21.8
	Base Number (BN)				7.0	7.6	8.7
	Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.6	13.7







Certificate L2367

Laboratory Sample No.

: WC0938982 Lab Number : 06217556 Unique Number : 11090420 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 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: